Научном већу Института за физику у Београду

Београд, 1. 6. 2017.

ПРИМЉЕНО: 01 -06- 2017			
Рад.јед.	б р о ј	Арх.шифра	Прилог
0901	725/1		

Предмет: Молба за покретање поступка за избор у звање виши научни сарадник

Молим Научно веће Института за физику у Београду да у складу са Правилником о поступку и начину вредновања и квантитативном исказивању научно-истраживачких резултата истраживача покрене поступак за мој избор у звање виши научни сарадник.

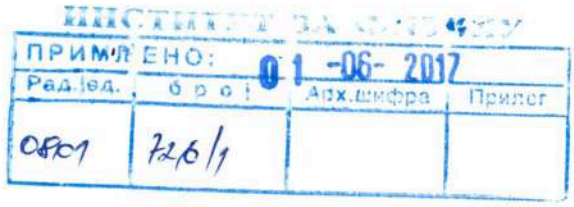
У прилогу достављам:

1. Мишљење руководиоца пројекта са предлогом чланова комисије за избор у звање
2. Стручну биографију
3. Преглед научне активности
4. Елементе за квалитативну оцену научног доприноса
5. Елементе за квантитативну оцену научног доприноса
6. Списак објављених радова и њихове копије
7. Податке о цитираности радова
8. Фотокопију решења о избору у претходно звање
9. Додатке

Са поштовањем,

Марија Митровић Данкулов

др Марија Митровић Данкулов
научни сарадник
Институт за физику у Београду



Научном већу Института за физику у Београду

Београд, 30. мај 2017. године

Предмет: **Мишљење руководиоца пројекта о избору др Марије Митровић Данкулов у звање виши научни сарадник**

Др Марија Митровић Данкулов је запослена у Лабораторији за примену рачунара у науци, у оквиру Националног центра изузетних вредности за изучавање комплексних система Института за физику у Београду и ангажована је на пројекту основних истраживања Министарства просвете, науке и технолошког развоја Републике Србије ОН171017, под називом "Моделирање и нумеричке симулације сложених вишечестичних физичких система". На поменутом пројекту ради на темама везаним за проучавање комплексних мрежа и моделирања техно-социјалних система. С обзиром да испуњава све предвиђене услове у складу са Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача МПНТР, сагласан сам са покретањем поступка за избор др Марије Митровић Данкулов у звање виши научни сарадник.

За састав комисије за избор др Марије Митровић Данкулов у звање виши научни сарадник предлажем:

(1) др Антун Балаж, научни саветник, Институт за физику у Београду
(2) др Александар Белић, научни саветник, Институт за физику у Београду
(3) др Александар Богојевић, научни саветник, Институт за физику у Београду
(4) проф. др Сунчица Елезовић Хаџић, редовни професор Физичког факултета Универзитета у Београду

Руководилац пројекта

др Антун Балаж
научни саветник

2 БИОГРАФСКИ ПОДАЦИ КАНДИДАТКИЊЕ

Марија Митровић Данкулов (девојачко Митровић) је рођена 1981. године у Ћуприји, где је завршила основну школу. Гимназију у Ћуприји је завршила 2000. године након чега је уписала основне студије на Физичком факултету Универзитета у Београду, смер Теоријска и експериментална физика. Дипломирала је 2005. године са просечном оценом 9.78. Дипломски рад под називом *Адсорпција и растезање усмерених случајних кретања* урадила је под руководством проф. др Сунчице Елезовић-Хаџић. Након основних студија, 2005. године уписала је магистарске студије на Физичком факултету Универзитета у Београду, смер Физика кондензованог стања материје. Магистарске студије је завршила са просечном оценом 10.00, и јуна 2010. године одбранила магистарски рад под називом *Налажење отежињених подструктура у неким реалним и компјутерски генерисаним мрежама*. Рад је урађен под руководством проф. др Босиљке Тадић. Докторат под називом *Структура и динамика техно-социјалних мрежа* одбранила је у марту 2012. године под руководством проф. др Босиљке Тадић. Након завршених докторских студија, у периоду од априла 2012. године до фебруара 2014. године, др Марија Митровић Данкулов је радила као постдокторски истраживач у групи проф. др Санта Фортуната на Аалто Универзитету у Финској.

Од краја 2005. године до марта 2009. године др Митровић Данкулов је била ангажована као истраживач приправник у Лабораторији за примену рачунара у науци Института за физику у Београду на пројекту *Моделирање и симулације сложених физичких система*, чији је руководилац био др Александар Белић. Током овог периода је у оквиру међународне сарадње учествовала у пројектима CX-CMCS (ЕУ Центар изврсности за нумерицко моделирање комплексних система), од 2006. до 2009. године, и билатералном српско-словеначком пројекту БИ-РС/08-09-047, током 2008. године. Била је редовни учесник, кроз конференције и кратке научне мисије, COST акција P-10 *Physics of risk*, MP0801 *Physics of Competition and Conflicts*, TD1210 *KnowEscape - Analyzing the dynamics of information and knowledge landscapes*, а тренутно је представник Србије у менаџмент комитету COST акције TU1305 *Social Networks and Travel Behaviour*. Од марта 2009. године до априла 2012. године била је запослена као млади истраживач на Одсеку за теоријску физику Института Јожеф Стефан у Љубљани, Словенија. Током тог периода била је ангажована на европском пројекту FP7 *Cyberemotions - Collective emotions in cyberspace*. У периоду од априла 2012. године до фебруара 2014. године била је запослена на Одсеку за биомедицински инжењеринг и компјутерске науке, Школе за науку Аалто Универзитета у Финској. Од марта 2014. године запослена је у Лабораторији за примену рачунара у науци у оквиру Центра изузетних вредности за изучавање комплексних система Института за физику у Београду. Институту за физику у Београду где ради на националном пројекту *Моделирање и нумеричке симулације сложених вишечестичних система* (ОН 171017) као руководилац потпројекта *Моделирање комплексних нелинеарних динамичких система*. Јула 2015. године др Митровић Данку-лов је постављена за заменика рудководиоца Иновационог центра Института за физику у Београду, где активно ради на пословима трансфера технологије и заштите интелектуалне својине. У оквиру Иновационог центра ангажована је на пројекту *Upscaling Teslagram® technology based on variable and complex biological structures for security printing* који је финансиран од стране Иновационог фонда Србије у оквиру *Програма сарадње науке и привреде*.

Главна тема истраживања др Митровић Данкулов је примена метода статистичке физике и теорије комплексних мрежа на изучавање колективне динамике различитих комплексних система, са посебним акцентом на колективне феномене у социјалним системима. Коаутор је 22 научне публикације, од којих су 18 објављене у међународним часописима, и једног поглавља у књизи. Половина њених радова је објављена у изузетним часописима као што су *Nature*, *Nature Communications*, *Scientific Reports*, *Royal Society Interface* и *PLOS One*. Добитник је Годишње награде за научни допринос Института за физику у Београду 2017. године. Има широку научну сарадњу са групама из Словеније, Италије, Индије, Израела и Финске. Ментор је на докторским студијама студенткињи Јелени Смиљанић чија се одбрана докторске тезе очекује до краја 2017. године. Др

Митровић Данкулов је члан програмских комитета већег броја водећих међународних конференција из области комплексних система.

3 ПРЕГЛЕД НАУЧНЕ АКТИВНОСТИ

Др Митровић Данкулов се бави емпиријском анализом и теоријским моделовањем структуре и динамике комплексних системима, са акцентом на социјалне системе. Интерагујући биолошки и хемијски системи, неуронске мреже, социјалне интеракције, интернет и World Wide Web, су само неки од примера комеплексних система који се састоје од великог броја међусобно повезаних динамичких јединица. За ове системе је карактеристично колективно комплексно понашање које настаје као последица интеракција између конституената система и које се не може предвидети само на основу понашања његових појединачних делова. Један од циљева науке комплексних система је да објасни како једноставне интеракције између великог броја компоненти система могу да резултују у организовано и адаптивно понашање. Из тих разлога, развој квантитативних метода за изучавање и опис појавног, само-оргнизованог понашања, је један од најзначајнијих задатака.

Први приступ у изучавању глобалних колективних особина оваквих система је њихово мапирање на мреже, графове, чији чворови представљају динамичке јединице, док линкови репрезентују интеркције између њих. Структурне и динамичке особине ових мрежа су врло блиско повезане са динамиком и функцијом система које представљају. Из ових разлога *теорија комплексних мрежа* је од великог значаја за изучавање комплексних динамичких система. Други приступ је *физика комплексних система* која користи методе статистичке физике за изучавање комплексне динамике. Упркос различитости комплексних система, наука полази од претпоставке да је динмика комплексних система заснована на универзалним принципима који могу бити коришћени за описивање различитих проблема, од физике честица па до економије друштва. Пренос резултата и идеја између дијаметрално супротних области доводи до веома важних нових резултата бољег разумевања динамике и структуре комплексних система и комплексности уопште.

У свом досадашњем истраживачком раду др Митровић Данкулов се бавила развојем квантитативних метода и изучавањем динамике и структуре првенствено техно-социјалних, социјалних и биолошких система, као и развијањем квантитативних метода за изучавање и опис структуре комплексних мрежа. Њен истраживачки рад се може груписати у следеће подцелине:

- структура и динамика колективних емоција у техно-социјалним мрежама,
- квантитативно проучавање знања као колективног феномена,
- структура комплексних мрежа,
- структура и динамика социјалних група са дискретном динамиком,
- универзални обрасци и предикција колективног понашања у социјалним системима,
- примена теорије комплексних мрежа билошке системе и изучавање динамике саобраћаја.

У наредним секцијама су приказати главни научни резултати добијени у оквиру ових тема.

3.1 Структура и динамика колективних емоција у техно-социјалним мрежама

Као докторанд, др Марија Митровић Данкулов се у оквиру ове теме бавила проучавањем емотивних колективних стања у техно-социјалним мрежама. Њен кључни допринос у овој области је развој квантитативних метода, базираних на методама и алаткама теорије комплексних мрежа и статистичке физике, за изучавање техно-социјалних система чија су динамика и структура обликоване емоцијама. Мапирањем података из оваквих система на бипартитне мреже и анализом њихове стурктуре и структуре њихових пројекција показала је да се колективна емотивна стања манифестују кроз формирање заједница, група јако повезаних чланова. Анализа динамике појединачних група указала је на различите механизме који доводе до њиховог формирања: емоције имају главну улогу у формирању заједница када су у питању јако популарне теме, док динамику на непопулрним

темама условљавају појединачна интересовања чланова система. Показала је и да поларитет емоција које преовлађују у систему зависи од његовог типа: у социјалним системима, као што су *MySpace* и *IRC* канали, позитивне емоције имају важну улогу у динамици система, док у системима сличним *BBC Блогу* і *Digg* веб сајту негативне емоције су условљавају настанак и опстанак заједнице. Квантитативном анализом временских серија из различитих техно-социјалних система показала је да је динамика овакви системи карактерисани лавинама, чија дистрибуција величина прати степени закон, и дуго-дометним временским корелацијама. Ово указују на то да се овакви системи налазе у само-организованом критичном стању. Да би детљаније испитала настанак емотивних колективних стања, као и њихову зависност од структуре мреже и осталих параметара у систему (на пример параметар дисеминације емоција), развила је два теоријска модела колективне динамике: модел ћелијских аутомата на фиксираној мрежи и модел емотивних агената на мрежи која еволуира. Модел ћелијских аутомата је омогућио да се испита настанак само-организованог критичног стања у емотивним техно-социјалним заједницама, као и његова зависност од параметра дисеминације емоција. Еволуција комплексне мреже, настанак емотивних заједница, као и емотивна колективна динамика, испитане симулирањем модела емотивних агената. Ови резултати су представљени у следећим радовима:

- How the online social networks are used: dialogues-based structure of MySpace
  M. Šuvakov, **M. Mitrović**, V. Gligorijević, and B. Tadić
  J. R. Soc. Interface **10**, 20120819 (2013),

- Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks
  B. Tadić, V. Gligorijević, **M. Mitrović**, and M. Šuvakov
  Entropy **15**, 5084 (2013),

- Statistical Analysis of Emotions and Opinions at Digg Website
  P. Pohorecki, J. Sienkiewicz, **M. Mitrović**, G. Paltoglou, and J. A. Holyst
  Acta Phys. Pol. A 123, 604 (2013),

- Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling
  M. Mitrović and B. Tadić
  Physica A **391**, 5264 (2012),

- Emergence and structure of cybercommunities
  M. Mitrović and B. Tadić
  In Springer Handbook of Optimization in Complex Networks Theory and Applications, part 2: "Structure and Dynamics of Complex Networks" Ed. M. M. Thai and P. Pardalos, **57**, Part 2, 209, Springer, Berlin (2012),

- Quantitative analysis of bloggers' collective behavior powered by emotions
  M. Mitrović, G. Paltoglou, and B. Tadić
  J. Stat. Mech.-Theory Exp. P02005 (2011),

- Networks and emotion-driven user communities at popular Blogs
  M. Mitrović, G. Paltoglou, and B. Tadić
  Eur. Phys. J. B **77**, 597 (2010),

- Bloggers behavior and emergent communities in Blog space
  M. Mitrović and B. Tadić
  Eur. Phys. J. B **73**, 293 (2010),

- Mixing patterns and communities on bipartite graphs on web-based social interactions
  J. Grujić, **M. Mitrović** and B. Tadić

Proceedings of 16th International Conference on Digital Signal Processing, July 5-7 2009, Santorini, Greece. DSP 2009. New York: IEEE, 1-8, (2009).

3.2 Квантитативно проучавање знања као колективног феномена

Квантитативне методе развијене за изучавање колективних емотивних стања су примењене на изучавање настанка колективног знања у техно-социјалном систему *StackExchange* сајта Математика. У овим системима се социјалне интеракције остварују кроз постављање питања, давање одговора и коментарисање. Знање је у овим питањима кодирано таговима карактеристичним за мапирање знања у математици што омогућава да се на квантитативан начин изучава динамика настанка колективног знања, као и њена зависност од структуре социјалне мреже. Применом метода теорије комплексних мрежа показано је да је и динамика настанка колективног знања карактерисана формирањем заједница у мрежи. Теоријски модел агената, који је за ову прилику развијен, је показао да структура мреже, заједница, као и њихов број зависе од броја и расподеле експертиза у систему. Анализом временских серија је показано да се системи, у којима знање настаје као последица колективног напора, налазе у стању само-организоване критичности, односно да настанак новог знања дешава у таласима чију је величину и трајање немогуће предвидети. Анализом динамике настанка нових тагова и њихових кобинација, као и анализом структуре мреже коју тагови чине, показано је да је иновативност пре свега вођена новим комбинацијама старих знања, и то додавањем нових тагова на већ постојеће тријаде.

Осим у техно-социјалним заједницама, започето је и испитивање настанка знања у науци. Конкретно, испитана је временска зависност дужине чекања на Нобелову награду од времена додељивања награде. Показано је да научници све дуже чекају да буду награђени за њихова значајна открића, као и да ово време расте експоненцијално са временом. Ово се објашњава чињеницом да су знања све комплекснија и да захтевају већи број и већу разноврсност експертиза. Истраживања су објављена у:

- Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers
  M. Andjelkovicć, B. Tadicć, **M. Mitrović Dankulov**, M. Rajkovicć, and R. Melnik
  PLoS ONE **11**, e0154655 (2016).,

- The Dynamics of Meaningful Social Interactions and the Emergence of Collective Knowledge
  M. Mitrović Dankulov, R. Melnik, and B. Tadić
  Sci. Rep. **5**, 12197 (2015),

- Growing Time Lag Threatens Nobels
  S. Fortunato, A. Chatterjee, **M. Mitrović**, R. Ku. Pan, P. Della Briotta Parolo, and F. Becattini
  Nature **508**,186 (2014).

3.3 Структура комплексних мрежа

Структура комплексне мреже уско је повезана са и зависи од динамике комплексног система репрезентованог том мрежом. Из тих разлога, развој мера, метода и алгоритама за квантитатино описивање структуре комплексних мрежа је од важности у изучавању динамике комплексних система. Као докторанд, др Митровић Данкулов се бавила развојем метода и алгоритама за налажење заједница, мезоскопских структура, у бинарним и отежињеним комплексним мрежама. Прво је развила метод који користи методе мешовитих модела и експектационо-максимизационог алгоритма за налажење отежињених подструктура у усмереним и неусмереним мрежама. Метод базиран на максимизацији генерализоване веродостојности је тестиран на генерисаним отежињеним мрежама и за налажење подструктура у мрежи генских експресија квасца.

Испитала је зависност тополошких особина комелексне мреже, са једне стране, и спектралних особина матрице повезаности и нормализованог Лапласијана, са друге. Затим је на основу ових резултата развила метод за налажење мезоскопских структура у отежињеним и бинарним мрежама. Ефикасност и тачност метода је тестиран на мрежама добијеним из модела scale-free мрежа са контролисаним бројем заједница и повезаношћу између и унутар њих. Овај метод је затим више пута искоришћен за налажење заједница у различитим техно-социјалним мрежама.

Коришћењем метода *dk*-серије, заједно са колегама, успела је да на конзистентан начин квантификује степен случајности у комплексним мрежама. Показала је да је већину локалних, мезоскопских и глобалних тополошких карактеристика реалних комплексних мрежа могуће репродуковати *dk*-случајним графовима који имају исту средњу повезаност, степену расподелу, степен-степен корелације, средњу вредност и зависност коефицијент груписања од степена чвора као реална мрежа. Ови резултати указују на то да је број значајних и независних тополошких особина у мрежи релативно мали, и да је разумевање њиховог настанка довољно да се разуме еволуција мреже. Најважнији радови у овој подобласти су

- Quantifying Randomness in Real Networks
  C. Orsini, **M. Mitrović Dankulov**, P. Colomer-de-Simón, A. Jamakovic, P. Mahadevan, A. Vahdat, K. E. Bassler, Z. Toroczkai, M. Boguñá, G. Caldarelli, S. Fortunato, and D. Krioukov
  Nat. Commun. **6**, 8627 (2015),

- Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities
  M. Mitrović and B. Tadić
  Phys. Rev. E **80**, 026123 (2009),

- Search of weighted subgraphs on complex networks with maximum likelihood methods
  M. Mitrović and **B. Tadić**
  LNCS **5102**, 551 (2008).

3.4 Структура и динамика социјалних група са дискретном динамиком

Под социјалним групама са дискретном динамиком подразумевају се оне социјалне заједнице чија се активност, као и већи део социјалних интеракција, дешава у тачно одређеним тренуцима и на тачно одређеним местима, тј. догађајима. За ове групе је карактеристично да се њихови чланови окупљају и социјализују са тачно одређеним циљем, на пример промоција и дисеминација научних резултата, одлазак у бар или на пешачење. Кандидаткиња је заједно са својим сарадницима квантификовала и описала обрасце учешћа појединачних чланова у заједницама научника који учествују на серијама конференција, као и у Meetup групама где се људи окупљају да би квалитетно провели слободно време и уживали у одређеној групној активности. Показано је да је активност појединачних чланова врло хетерогена, као и да обрасци учешћа имају врло универзалан карактер; не зависе од величине групе, локације и динамике одржавања догађаја, као ни од тога да ли су разлози окупљања професионални или лични. Хетерогеност и универзалност образаца указује на то да је осећај припадности појединачних чланова заједници искључиво условљена социјалним ефектима. Коришћењем Полиног модела урни, показано је да вероватноћа да члан учествује на следећем догађају нелинеарно зависи од односа броја предходних учествовања и не учествовања. Анализа социјалних мрежа је открила да кроз учествовања чланови јачају своје постојеће социјалне везе. Ови резултати су објављени у следећим радовима:

- Associative nature of event participation dynamics: A network theory approach
  J. Smiljanić and **M. Mitrović Dankulov**
  PLoS ONE **12**, e0171565 (2017),

- A Theoretical Model for the Associative Nature of Conference Participation
  J. Smiljanić, A. Chatterjee, T. Kauppinen, and **M. Mitrović Dankulov**

PLoS ONE **11**, e0148528 (2016).

3.5 Универзални обрасци колективног понашања у социјалним системима

У статистичкој физици под универзалношћу се подразумева опажање да широка класа система испољава исто понашање или има исте особине које су независне од микро детаља везаних за конкретан систем. Емпиријска анализа великог броја социјалних система показала је да се они када је у питању испољавање универзалности не разликују много од других комплексних система који се традиционално изучавају у статистичкој физици. Кандидаткиња је, заједно са колегама, анализирала изборне резултате на парламентарним изборима за петнаест земаља и за период од преко три деценије, и показала да успешност кандидата једне странке на парламентарним изборима, мерена у односу на просечан успех његове странке, има универзалну дистрибуцију у земљама које имају иста изборна правила, односно да не зависи од културе, историје или времена догађаја.

Анализирајући податке о обрасцима комуникације и мобилности грађана Обале Слоноваче, показала је да се мобилоност унутар и између насељених места може предвидети на основу броја позива између њих и њихове удаљености. Предложени предиктивни модел има исте вредности параметара, независно од просторне скале, за разлику од модела претходно коришћених за предикцију моблиности. Описана истраживања су објављена у следећим радовима:

- Inferring Human Mobility Using Communication Patterns
  V. Palchykov, **M. Mitrović**, H. Jo, J. Saramaki, and R. Ku. Pan
  Sci. Rep. **4**, 6174 (2014),

- Universality in voting behavior: an empirical analysis
  A. Chatterjee, **M. Mitrović**, and S. Fortunato
  Sci. Rep. **3**, 1049 (2013).

3.6 Примена теорије комплексних мрежа на биолошке системе и у изучавању динамике саобраћаја

У радовима који спадају у ову подобласт показано је како се теорија комплексних мрежа, мапирање и анализа тополошких особина, може применити на изучавање генских експресија пивског квасца, веза између појединачних молекула и молекулских комплекса, и динамике саобраћаја на модуларним мрежама и реалној мрежи улица у кинеском граду Нанжинг. Генске експресије се могу искористити за налажење образаца повезаности између гена израчунавањем и филтрирањем, на одговарајући начин, матрице повезаности, и представљањем ове матрице као отежињене мреже. Спектрална анализа Лапласијана који одговара овој мрежи открива њену нехомогену мезоскопску структуру, модуле. Сваки модул који садржи гене различите функционалне категорије али са истом физичком позицијом у ћелији, једро, цитоплазма или митохондрије.

Друга примена теорије комплексних мрежа у биологији показује да метод комплексних мрежа може бити искоришћен као алатка за ефективну селекцију релевантних експерименталних података из мерења јачине веза између појединачних молекула и молекуларних комплекса коришћењем динамичке спектроскопије силе. Тополошки модули нађене у овим мрежама, идентификовани методом спектралне анализе, су сачињени од појединачних сетова мерења под истим условима.

Динамика вођених случајних шетњи на генерисаним и реалним модуларним мрежама се показала као погодан динамички процес за моделирање саобрћаја. Показано је да саобраћај на реалној мрежи Нанжинг града може имати три различита режима у зависности од густине саобраћаја: слободан проток, режим са привременим загушењем, и режим загушеног саобраћаја. Идентификовањем

модула на отежињеној динамичкој мрежи саобраћаја показано је да географски одвојени региони имају различите обрасце саобраћаја. Улога модула у формирању различитих режима саобраћаја испитана симулирањем динамике случајних шетњи на генерисаним мрежама са модулима. Показано је да унутрашња структура модула има огроман утицај на формирање образаца саобраћаја на мрежи. Резултати су објављени у следећим радовима:

- Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions
  J. Živković, **M. Mitrović**, L. Janssen, H. A. Heus, B. Tadić, and S. Speller
  EPL **89**, 68004 (2010).

- Jamming and correlation patterns in traffic of information on sparse modular networks
  B. Tadić and **M. Mitrović**
  Eur. Phys. J. B 71, 631 (2009),

- Correlation patterns in gene expressions along the cell cycle of yeast
  J. Živković, **M.Mitrović** and B. Tadić
  Studies in computational intelligence 207, 23, Springer, (2009),

- Congestion patters of traffic studied on Nnjing city dual graph
  H.-L. Zeng, Y.-D. Guo, C.-P. Zhu, **M. Mitrović** and B. Tadić
  16th International Conference on Digital Signal Processing, July 5-7 2009, Santorini, Greece New York : IEEE (2009).

4 ЕЛЕМЕНТИ ЗА КВАЛТИТАТИВНУ ОЦЕНУ НАУЧНОГ ДОПРИНОСА КАНДИДАТА

4.1 Квалитет научних резултата

4.1.1 Научни ниво и значај резултата, утицај научних радова

Др Марија Митровић Данкулов је у свом досадашњем раду дала кључни допринос у укупно 22 рада, од којих је 18 објављено у међународним часописима са ISI листе, и једном поглављу у књизи. Од тога је 7 у М21а категорији (међународни часописи изузетних вредности), 5 у М21 категорији (врхунски међународни часописи), 5 у М22 категорији и 1 у категорији М23.

У периоду након одлуке Научног већа о предлогу за стицање претходног научног звања, др Марија Митровић Данкулов је објавила 12 радова у часописима са ISI листе. Од тога је 6 у М21а категорији (међународни часописи изузетних вредности), 3 у М21 категорији (врхунски међународни часописи), 2 у М22 категорији и 1 у М23 категорији. Одржала је више предавања на научним скуповима, од којих су два по позиву. Поред тога, кандидаткиња је у претходном периоду била и предавач на једној летњој школи.

Као најзначајнијих пет радова кандидаткиње могу се узети:

1. Associative nature of event participation dynamics: A network theory approach
   J. Smiljanić and **M. Mitrović Dankulov**
   PLoS ONE **12**, e0171565 (2017), M21, цитиран 0 пута,

2. The Dynamics of Meaningful Social Interactions and the Emergence of Collective Knowledge
   M. Mitrović Dankulov, R. Melnik, and B. Tadić
   Sci. Rep. **5**, 12197 (2015), M21a, цитиран 6 пута,

3. Quantifying Randomness in Real Networks
   C. Orsini, **M. Mitrović Dankulov**, P. Colomer-de-Simón, A. Jamakovic, P. Mahadevan, A. Vahdat, K. E. Bassler, Z. Toroczkai, M. Boguñá, G. Caldarelli, S. Fortunato, and D. Krioukov
   Nat. Commun. **6**, 8627 (2015), M21a, цитиран 7 пута,

4. Quantitative analysis of bloggers' collective behavior powered by emotions
   M. Mitrović, G. Paltoglou, and B. Tadić
   J. Stat. Mech.-Theory Exp. P02005 (2011), M21a, цитиран 18 пута,

5. Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities
   M. Mitrović and B. Tadić
   Phys. Rev. E **80**, 026123 (2009), M21, цитиран 38 пута.

У првом раду детаљно су анализирани обрасци учешћа чланова у активностима четири групе Meetup веб сајта, као и еволуција њихових социјалних мрежа. Овај сај служи људима да стварају и воде групе људи који су заинтересовани за неку специфичну активност, на пример одлазак на забаве, књижевне вечери, пешачење, професионално усавршавање. Meetup група њеним члановима служи да онлајн организују догађаје на којима се физички срећу. У том смислу је активност ових група различита односу на чисте онлајн групе јер изискује додатни напор и време. У ранијем раду било је показано да научници имају врло хетерогене обрасце учешћа на серијама конференција. Велики број њих учествује само једном док мали, али ипак не занемарљив, део њих учествује на великом броју активности. Независност ових образаца од величине, типа или локације конференције показује да је динамика учешћа научника на конференцијама вођена механизмима социјалне природе. Анализа образаца учешћа чланова Meetup групе у њеним активностима је показала да је ова динамика универзална, односно да дистрибуције броја учешћа имају универзални облик и не зависе од типа и величине групе, као и временске скале динамике дешавања догађаја. Кроз анализу еволуције

социјалних мрежа чланова додатно су испитани социјални механизми који прате ову динамику. Конкретно показано је да људи током првих пар учешћа шире своју социјалну мрежу, а да су касније учествовања имају сврху јачања постојећих веза са остатком заједнице. Такође је показано да људи имају тенденцију да прате своју малу подгрупу људи, а не неког члана посебно. Значај овог рада огледа се у чињеници да је ово прва детаљна анализа еволуције социјалне мреже кроз офлајн активности њених чланова. Такође овај рад даје значајан допринос изучавању универзалности колективног понашања људи.

У другом раду су први пут употребљени методи статистичке физике и теорије комплексних мрежа за проучавање феномена колективног настанка знања у социјалним заједницама. Анализом комплексне бипартитне мреже којом се представљају интеркације између делова техно-социјалне мреже истраживана је њихова кластеризација, док спектар снаге временске серије активности корисника показује да су оне карактерисане лавинама, сличним Бракхаузеновом шуму или лавинама у неким физичким системима као што су модели пешчаних лавина. Овај рад је значајан за физику комплексних система, а његови резултати су значајни за примене у социологији и дисциплинама које се баве динамиком настанка знања и динамиком учења у групама. Кандидаткиња је резултате овог рада представила на два предавања по позиву, као и на другим предавањима која је одржала на престижним конференцијама у овој области.

Трећи рад представља значајан допринос у области теорије комплексних мрежа. У овом раду је по први пут одређен минималан скуп тополошких особина које одређују структуру реалне комплексне мреже и по први пут је, на конзистентан начин, квантификовано колико се реалне комплексне мреже разликују од случајних мрежа. Пошто се помоћу комплексних мрежа данас описују различити системи, физички, биолошки, технолошки и социјални, теорија комплексних мрежа постаје све важнија за истраживања у овим областима. Због тога је овај рад од великог значаја и за ове области, као и за примењене области које се на њих наслањају. Ова прва три рада су део научног доприноса за који је кандидаткиња добила награду Института за физику у Београду 2017. године.

Четврти рад припада корпусу радова кандидаткиње који се баве изучавањем динамике и структуре колективних емоција у техно-социјалним заједницама. У овом раду је по први пут аанализирана динамика емоција у онлајн заједницама коришћењем метода статистичке физике. Показано је да се емотивна активност може посматрати као временска серија, као и да се особинама ове временске серије могу квантитативно описати колективна емотивна стања. Ове временске серије имају спектар снаге као сличан спектру снаге шума роза обојености, односно карактерисане су дугодометним временским корелацијама. Анализа дистрибуције величина лавина за временске серије које одговарају различитим емоцијама открила је да се ови системи налазе у стању самоорганизоване критичности и да негативне емоције имају кључну улогу у динамици система. Модел ћелијских аутомата којим се моделирају емотивне интеракци-је на фиксираној бипартитној мрежи, предложен и анализиран у овом раду, је омогућио да се детаљно испита улога параметра којим се мери дисеминација емоција између различитих постова. Показано је да вредност овог параметра одређује режим динамике у ком ће се налазити овај динамички систем, односно да ли ће бити у подкритичном, критичном или суперкритичном режиму. Резултати овог рада представљени су на једном позивном предавању и на многим конференцијама на којима је кандидаткиња учествовала. Поред тога, овај рад је и један од значајних резултата пројекта *FP7 Cybermotions - collective emotions in cyberspace* финансираног од стране Европске Уније.

У петом раду је изучавана мезоскопска структура комплексних мрежа, као и њена веза са спектралним особинама матрице повезаности и нормализованог Лапласијана. Показано је да су екстремалне својствене вредности, највеће својствене вредности матрице повезаности и најмање ненулте својствене вредности нормализованог Лапласијана, у директној вези са постојањем модула, заједница, у мрежи. Анализом спектралних густина ових матрица за компјутерски генерисане мреже са контролисаним бројем модула доказано је постојање процепа у спектру, као и да је ширина овог процепа у директној корелацији са бројем модула у мрежи. Показано је да се својствени

вектори који одговарају екстремалним својственим вредностима локализују на модулима. На основу ових сазнања направљен је алгоритам за налажење модуларних структура у неусмереним комплексним мрежама. Овај метод је кандидаткиња интензивно користила у великом броју својих каснијих радова, као и током истраживања у оквиру пројекта *FP7 Cybermotions - collective emotions in cyberspace*.

4.1.2 Позитивна цитираност научних радова кандидата

Према ISI Web of Science бази радови кандидаткиње су цитирани укупно 238 пута, док је број цитата без аутоцитата 186. Према истој бази h–индекс кандидаткиње је 9.

Прилог: подаци о цитираности са интернет странице ISI Web of Science.

4.1.3 Параметри квалитета часописа

Битан елемент за процену квалитета научних резултата је и квалитет часописа у којима су радови објављени, односно њихов импакт фактор – ИФ. У категорији М21а, М21, М22 и М23 кандидаткиња је објавила радове у следећим часописима, где су подвучени они часописи у којима је кандидаткиња објављивала у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања:

- 1 рад у Nature (ИФ = 42.351),
- 1 рад у Nature Communications (ИФ = 11.470),
- 3 рада у Scientific Reports (ИФ = 5.078 за 1 рад и ИФ = 5.578 за 2 рада),
- 1 рад у Journal of Royal Society Interface (ИФ = 4.907),
- 1 рад у Journal of Statistical Mechanics: Theory and Experiment (ИФ = 2.670),
- 3 рада у PLOS One (ИФ= 3.234 за 2 рада и ИФ=3.057 за 1 рад),
- 1 рад у Physical Review E (ИФ = 2.508),
- 1 рад у Europhysics Letters (ИФ = 2.893),
- 1 рад у Physica A: Statistical Mechanics and Its Applications (ИФ = 1.676),
- 3 рада у European Physical Journal B. (ИФ = 1.568 за 1 рад и ИФ = 1.575 за 2 рада),
- 1 рад у Entropy (ИФ = 1.564),
- 1 рад у Acta Physica Polonica A (ИФ = 0.604).

Укупан фактор утицаја радова кандидаткиње је 101.12, а у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања тај фактор је 88.331. Часописи у којима је кандидаткиња објављивала радове су по свом угледу цењени и водећи у областима којима припадају. Посебно се међу њима истичу: *Nature*, *Nature Communications*, *Scientific Reports*, *Journal of Royal Society Interface*, *PLOS One*, *Journal of Statistical Mechanics*, *Physical Review E*.

4.1.4 Степен самосталности и степен учешћа у реализацији радова у научним центрима у земљи и иностранству

Кандидаткиња је водећи аутор шест радова, други аутор шест публикација и трећи аутор четири публикације и последњи аутор на две публикације.

На радовима који су објављени у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања, кандидаткиња је водећи аутор две публикација, други аутор четири рада

и последњи аутор на два рада. При изради свих ових публикација кандидаткиња је учествовала у конкретној формулацији проблема, сакупљању и чишћењу података, развоју метода и емпиријској анализи података, конструкцији и нумеричким симулацијама теоријских модела, као и у завршном писању. Радови на којима је кандидаткиња последњи аутор урађени су под њеним руководством. На овим радовима је први аутор студенткиња докторанд којој је кандидаткиња ментор на докторским студијама.

Током израде докторске дисертације на Институту Јожеф Стефан у Љубљани, Словенија, кандидаткиња је у сарадњи са проф. др Босиљком Тадић и др Џорџом Палтоглуом радила на развоју квантитативних метода и изучавању структуре и динамике колективних емотивних стања у техно-социјалним заједницама. Током постдокторског истраживања, у сарадњи са проф. др Сантом Фортунатом, радила је на више различитих проблема који се тичу социјалне динамике, укључујући ту и универзалне обрасце понашања у социјалним системима. На развоју квантитативних мера и изучавању структуре комплексних мрежа радила је и током докторских студија, постодкторског истраживања, као и по повратку на Институт за физику у Београду. По повратку на Институт за физику у Београду, кандидаткиња је започела истраживање динамике различитих социјалних група чија су структура и динамика условљене учествовањем чанова групе на догађајима. Све ове теме су врло актуелне, и спадају у интердисциплинарну област истраживања комплексни системи. За успешно изучавање динамике и структуре социјалних, а и других комплексних, система неопходно је познавање статистичке физике, напредних статистичких метода, теорије комплексних мрежа, као и напредних нумерчких метода, које укључују познавање различитих типова микроскопских модела. Поред тога, истраживање динамике социјалних система захтева и знања из других научних области као што су социологија и компјутерске науке. Кандидаткиња је ова знања стекла током докторских студија и постдокторког усавршавања а затим је та знања пренела на Институт за физику у Београду где успоставила нови истраживачки правац.

Кандидаткиња има активну сарадњу са истраживачима у области физике: проф. др Босиљка Тадић, Љубљана, Словенија, проф. др Санто Фортунато, Блумингтон, САД, др Арнаб Чатержи, Њу Делхи, Индија и проф. др Зоран Левнајић, Ново Место, Словенија. Поред тога сарађује и са истраживачима у другим областима науке: др Томи Каупинен (компјутерске науке), Хелсинки, Финска, проф. др Пнина Плаут (архитектура и урбано планирање) и проф. др Силвана Стефани (економија).

4.1.5 Награде

Кандидаткиња је добитница годишње награде за научни допринос Института за физику у Београду за 2017. годину.

4.2 Ангажованост у формирању научних кадрова

Кандидаткиња је тренутно ментор на изради докторске дисертације Јелене Смиљанић на Електротехничком факултету Универзитета у Београду чија се одбрана очекује до краја ове године. Поред тога, током 2015. године била је ментор на студентској пракси у Лабораторији за примену рачунара у науци студенту Петру Тадићу са Физичког факултета Универзитета у Београду. Резултати ове праксе представљени су на годишњој конференцији студената Физичког факултета.

Прилог: потврда о менторству руководиоца пројекта, извештај о раду истраживача докторанда.

4.3 Нормирање броја коауторских радова, патената и техничких решења

Сви радови кадидаткиње објављени у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања су базирани на комплексним нумеричким симулацијама. Десет радова, укључујући и један рад М23 категорије објављен као рад са конференције, имају пет и мање

коаутора, тако да улазе пуном тежином на број коаутора. Укупан број бодова које носе ових десет публикација је 75.5. Два рада имају више од пет аутора: рад у часопису *Nature* има шест аутора и број нормираних поена који носи је 8.33; рад у часопису *Nature Communications* има дванаест коатора и број нормираних поена које носи је 4.17. Укупан број поена кандидаткиње на основу М20 публикација пре нормирања износи 95.5, а после нормирања је 88. Нормирани поени чине мање од 10% од укупног броја поена.

4.4 Руковођење пројектима, потпројектима и пројектним задацима

Кандидаткиња руководи потпројектом *Моделирање комплексних нелинеарних динамичких система* у оквиру пројекта основних истраживања ОН171017 *Моделирање и нумеричке симулације сложених вишечестичних система* Министарства просвете, науке и технолошког развоја Републике Србије.

др Митровић Данкулов је заменик руководиоца Иновационог центра Института за физику у Београду. Такође је и представник Србије у менаџмент комитету COST Акције TU1305 "Social Networks and Travel Behaviour"

Током докторских студија кандидаткиња је била ангажована на FP7 пројекту *Cyberemotions - collective emotions in cyberspace* финансираном од стране Европске Уније. Тренутно је англажована на пројектним задацима развоја алгоритама за детектовање и разликовање биолошких структура на пројекту *Upscaling Teslagram® technology based on variable and complex biological structures for security printing* финансираног од стране Иновационог фонда Србије у оквиру *Програма сарадње науке и привреде.*

Прилог: потврда руководиоца пројекта о руковођењу потпројектом, одлука директора Института за физику о именовању заменика руководиоца пројекта, Веб страна COST Акције TU1305 "Social Networks and Travel Behaviour" (http://www.tu1305.eu/)

4.5 Активност у научним и научно-стручним друштвима

Кандидаткиња је члан Одсека за физику кондензоване материје и статистичку физику Друштва физичара Србије. Таоће је и представник института у Одбору међууниверзитетског програм за истраживање одрживог развоја Универзитета у Београду.

Уредник је "Special Research topic: Culturomics: Interdisciplinary Path Towards Quantitative Study of Human Culture" групе часописа *Frontiers.*

Рецензент је за часописе *Scientific Reports*, *Journal of Statistical Mechanics*, *PLOS One*, *Applied Network Science*, *Computational Social Networks*, *Frontiers in Physics* и *Quality and Quantity.*

Члан је програмских комитета следећих конференција:

- *The 9th International Conference on Social Informatics*, 13.–15. септембар 2017. године, Оксфорд, Велика Британија,
- *Conference on Complex Systems 2017 (CCS'17)*, 17.–22. септембар 2017. године, Канкун, Мексико,
- *The 6th International Conference on Complex Networks and Their Applications*, 29. новембар–1. децембар 2017. године, Лион, Француска.

Била је члан је научних и програмских комитета следећих конференција:

- *The 2nd International Conference on Complexity, Future Information Systems and Risk* - COMPLEXIS 2017, 24.–26. април, Порто, Португал,
- *The 5th Workshop on Complex Networks and their Applications*, 30. новембар–2. децембар 2016. године, Милано, Италија,

- *The 8th International Conference on Information Technologies and Information Society*, 10. новембар 2016. године, Шмајерске Топлице, Словенија,
- *The 2nd Annual International Conference on Computational Social Science (IC2S2 2016)*, 23.–26. јун 2016. године, Еванстон, САД,
- *The 3rd Conference on Sustainable Urban Mobility*, 26.–27. мај 2016. године, Волос, Грчка,
- *The First Annual International Conference on Computational Social Science (IC2S2 2015)*, 8.–11. јун 2015. године, Хелсинки, Финска,
- *The 7th International Conference on Information Technologies and Information Society*, 4.–6. новембар 2015. године, Ново Место, Словенија,
- *The 6th International Conference on Information Technologies and Information Society*, 5.–7. новембар 2014. године, Шмајерске Топлице, Словенија,
- *The 6th Summer Solstice International Conference on Discrete Models of Complex Systems*, SUMMERSOLSTICE 2014, 22.–25. јун, 2014, Ljubljana, Slovenia

Кандидаткиња је била један од организатора скупа *Thr First Annual KnowEscape Conference – KnowEscape2013* у оквиру COST Акције TD1210 *KnowEscape - Analysing the dynamics of information and knowledge landscapes* који је одржан у периоду од 18. до 20. новембра 2013. године, на Аалто Универзитету, Еспо, Финска.

Прилог: писмо о прихватању посебне теме у оквиру часописа *Frontiers*, писма уредништва рецезенту, позиви за чланство у програмским и научним комитетима, Веб странице конференција, Веб сајт конференције (http://knowescape.org/knowescape2013/).

4.6 Утицајност научних резултата

Утицај научних резултата кандидаткиње је наведен у одељку 4.1. овог документа. Пун списак радова и цитата је у прилогу.

4.7 Конкретан допринос кандидата у реализацији радова у научним центрима у земљи и иностранству

Кандидаткиња је значајано допринела сваком раду на коме је учествовала. Од дванаест радова у часописима у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања, један је комплетно урађен на Институту за физику у Београду под руководством кандидаткиње, пет је урађено у сарадњи са колегама из земље и иностранства, а шест су комплетно реализована у иностранству (док је кандидаткиња била на постдокторском усавршавању). Кандидаткиња је у овим радовима имала кључни допринос: на по два рада је први и последњи аутор, а на четири рада је потписана као други аутор. Конкретно, кандидаткиња је током израде ових публикација била покретач истраживања, радила је на сакупљању и чишћењу података, развоју метода за емпиријску анализу података, као и на њиховој емпиријској анализи, развоју одговарајући модела и њиховим нумеричким симулацијама, писању радова и била у комуникацији са уредником часописа при слању рада за објављивање. Радови на којима је кандидаткиња последњи аутор урадђени су под њеним руководством.

На Институту за физику у Београду кандидаткиња је зачетник новог правца истраживања у области физике комплексних система, социофизике. Знања и искуства која је стекла на докторским студијама и постдокторском усавршавању, а која се односе на методе и технике за емпиријску анализу и теоријско моделовање колективних феномена у комплексним системима, је успешно пренела млађим сарадницима у својој подгрупи која је део Лабораторије за примену рачунара у науци, Центра изузетних вредности за изучавање комплексних система.

4.8 Уводна предавања на конференцијама и друга предавања

Након претходног избора у звање, кандидаткиња је одржала следећа предавања:

- **M. Mitrović Dankulov**
  Quantifying collective behavior in social systems: a statistical physics approach
  Winter Workshop on Complex Systems 2017 (WWCS 2017), February 6–10, 2017, Petnica, Serbia, M32,

- **M. Mitrović Dankulov**
  How random are complex networks?
  Seminar at Department of Theoretical Physics, Jožef Stefan Institute, Ljubljana, Slovenia, 9 December 2016,

- **M. Mitrović Dankulov**
  Complex Networks Theory: An Introduction Summer School on Topological and Scaling Analysis of Transport and Social Media Data, June 13–17, 2016, Gavle, Sweden,

- **M. Mitrović Dankulov** and B. Tadić
  Quantitative Study and Modeling of Collective Knowledge Building via Questions and Answers
  Symposium on Condensed Matter Physics, SFKM2015, September 7–11, 2015, Belgrade, Serbia, M32,

- **M. Mitrović Dankulov** and B. Tadić
  The dynamics of collective knowledge building via questions and answers
  International Conference on Computational Social Science, June 8–11, 2015, Helsinki, Finland, M34,

- **M. Mitrović Dankulov**
  Koliko su slučajne kompleksne mreže
  Predavanje u okviru predmeta Seminari savremene fizike, Institut za fiziku u Beogradu, Belgrade, Serbia, 20 March 2015,

- **M. Mitrović** and B. Tadić
  Agent-Based Modeling and Social Structure in Bloggers' Dynamics
  6th Summer Solstice International Conference on Discrete Models of Complex Systems, SUMMER-SOLSTICE 2014, June 22–25, 2014, Ljubljana, Slovenia, M34,

- **M. Mitrović** and B. Tadić
  Quantitative Study of Innovation and Knowledge Building in Questions& Answers System with Math Tags
  The Second Annual KnowEscape Conference, KnowEscape2014, November 24–26, 2014, Thessaloniki, Greece, M34,

- **M. Mitrović**
  Statistička fizika socijalnih sistema
  Predavanje u okviru predmeta Seminari savremene fizike, Fizički fakultet Univerziteta u Beogardu, Belgrade, Serbia, 28. April 2014,

- **M. Mitrović**, A. Chatterjee and S. Fortunato
  Universal Patterns of Voting Behavior
  The First Annual KnowEscape Conference, KnowEscape2013, Helsinki, Finland, November 18–20, 2013, M34,

- **M. Mitrović** and B. Tadić
  Agent-Based Model Of Blogging
  European Conference on Complex Systems, Brussels, Belgium, September 3–7, 2012, M34.

Прилог: позивна писма за учешће на конференцијама, Веб сајтови конференција, изводи из књига апстраката.

5 ЕЛЕМЕНТИ ЗА КВАНТИТАТИВНУ ОЦЕНУ НАУЧНОГ ДОПРИНОСА КАНДИДАТА

Остварени резултати у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања:

Категорија	**M бодова**	**Број**	**Укупно M**	**Нормирани број**
Категорија	**по раду**	**радова**	**бодова**	**M бодова**
M21a	10	6	**60**	**52.5**
M21	8	3	**24**	**24**
M22	5	2	**10**	**10**
M23	3	1	**3**	**1.5**
M32	1.5	2	**3**	**3**
M34	0.5	9	**4.5**	**4.5**

Поређење са минималним квантитативним условима за избор у звање виши научни сарадник:

Минималан broj M бодова		**Остварено**
Укупно	50	**95.5**
M10+M20+M31+M32+M33+M41+M42	40	**91**
M11+M12+M21+M22+M23	30	**88**

Према ISI Web of knowledge бази укупан број цитата радова кандидаткиње је 228, док је број цитата без аутоцитата 186. Према истој бази h–индекс кандидаткиње је 9.

6 СПИСАК РАДОВА ДР МАРИЈЕ МИТРОВИЋ ДАНКУЛОВ

Поглавље у истакнутој монографији међународног значаја (M13)

Радови објављени пре претходног избора у звање

1. **M. Mitrović** and B. Tadić
   Emergence and structure of cybercommunities
   Handbook of Optimization in Complex Networks Theory and Applications, part 2: "Structure and Dynamics of Complex Networks" Ed. M. M. Thai and P. Pardalos, **57**, Part 2, 209-227, Springer, Berlin (2012).

Радови у међународним часописима изузетних вредности (M21a)

Радови објављени након претходног избора у звање

1. C. Orsini, **M. Mitrović Dankulov**, P. Colomer-de-Simón, A. Jamakovic, P. Mahadevan, A. Vahdat, K. E. Bassler, Z. Toroczkai, M. Boguñá, G. Caldarelli, S. Fortunato, and D. Krioukov
   Quantifying Randomness in Real Networks
   Nat. Commun. **6**, 8627 (2015), ИФ = 11.470 за 2014. год.

2. **M. Mitrović Dankulov**, R. Melnik, and B. Tadić
   The Dynamics of Meaningful Social Interactions and the Emergence of Collective Knowledge
   Sci. Rep. **5**, 12197 (2015), ИФ = 5.578 за 2014. год.

3. S. Fortunato, A. Chatterjee, **M. Mitrović**, R. Ku. Pan, P. Della Briotta Parolo, and F. Becattini
   Growing Time Lag Threatens Nobels
   Nature **508**,186 (2014), ИФ = 42.351 за 2013. год.

4. V. Palchykov, **M. Mitrović**, H. Jo, J. Saramaki, and R. Ku. Pan
   Inferring Human Mobility Using Communication Patterns
   Sci. Rep. 4, 6174 (2014), ИФ = 5.578 за 2014. год.

5. M. Šuvakov, **M. Mitrović**, V. Gligorijević, and B. Tadić
   How the online social networks are used: dialogues-based structure of MySpace
   J. R. Soc. Interface **10**, 20120819 (2013), ИФ = 4.907 за 2012. год.

6. A. Chatterjee, **M. Mitrović**, and S. Fortunato
   Universality in voting behavior: an empirical analysis
   Sci. Rep. **3**, 1049 (2013), ИФ = 5.078 за 2013. год.

Радови објављени пре претходног избора у звање

1. **M. Mitrović**, G. Paltoglou, and B. Tadić
   Quantitative analysis of bloggers' collective behavior powered by emotions
   J. Stat. Mech.-Theory Exp. P02005 (2011), ИФ = 2.670 за 2009. год.

Радови у врхунским међународним часописима (M21)

Радови објављени након претходног избора у звање

1. J. Smiljanić and **M. Mitrović Dankulov**
   Associative nature of event participation dynamics: A network theory approach
   PLoS ONE **12**, e0171565 (2017), ИФ = 3.234 за 2014. год.

2. M. Andjelkovicć, B. Tadicć, **M. Mitrović Dankulov**, M. Rajkovicć, and R. Melnik
   Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers
   PLoS ONE **11**, e0154655 (2016). ИФ = 3.234 за 2014. год.

3. J. Smiljanić, A. Chatterjee, T. Kauppinen, and **M. Mitrović Dankulov**
   A Theoretical Model for the Associative Nature of Conference Participation
   PLoS ONE **11**, e0148528 (2016), ИФ = 3.057 за 2015. год.

Радови објављени пре претходног избора у звање

1. J. Živković, **M. Mitrović**, L. Janssen, H. A. Heus, B. Tadić, and S. Speller *Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions*
   EPL 89, 68004 (2010), ИФ = 2.893 за 2009. год.

2. **M. Mitrović** and B. Tadić
   Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities
   Phys. Rev. E **80**, 026123 (2009), ИФ = 2.508 за 2008. год.

Радови у истакнутим међународним часописима (M22)

Радови објављени након претходног избора у звање

1. B. Tadić, V. Gligorijević, **M. Mitrović**, and M. Šuvakov
   Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks
   Entropy **15**, 5084 (2013), ИФ = 1.564 за 2013. год.

2. **M. Mitrović** and B. Tadić
   Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling
   Physica A **391**, 5264 (2012), ИФ = 1.676 за 2012. год.

Радови објављени пре претходног избора у звање

1. **M. Mitrović**, G. Paltoglou, and B. Tadić
   Networks and emotion-driven user communities at popular Blogs
   Eur. Phys. J. B **77**, 597 (2010), ИФ = 1.575 за 2010. год.

2. **M. Mitrović** and B. Tadić
   Bloggers behavior and emergent communities in Blog space
   Eur. Phys. J. B **73**, 293 (2010), ИФ = 1.575 за 2010. год.

3. B. Tadić and **M. Mitrović**
   Jamming and correlation patterns in traffic of information on sparse modular networks
   Eur. Phys. J. B 71, 631 (2009), ИФ = 1.568 за 2008. год.

Радови у међународним часописима (M23)

Радови објављени након претходног избора у звање

1. P. Pohorecki, J. Sienkiewicz, **M. Mitrović**, G. Paltoglou, and J. A. Holyst
   Statistical Analysis of Emotions and Opinions at Digg Website
   Acta Phys. Pol. A 123, 604 (2013), ИФ = 0.604 за 2013. год.

Предавања по позиву са међународних скупова штампана у изводу (M32)

Радови објављени након претходног избора у звање

1. **M. Mitrović Dankulov**
   Quantifying collective behavior in social systems: a statistical physics approach
   Winter Workshop on Complex Systems 2017 (WWCS 2017), February 6–10, 2017, Petnica, Serbia,
2. **M. Mitrović Dankulov** and B. Tadić
   Quantitative Study and Modeling of Collective Knowledge Building via Questions and Answers
   Symposium on Condensed Matter Physics, SFKM2015, September 7–11, 2015, Belgrade, Serbia.

Саопштења са међународних скупова штампана у целини (M33)

Радови објављени пре претходног избора у звање

1. J. Grujić, **M. Mitrović** and B. Tadić
   Mixing patterns and communities on bipartite graphs on web-based social interactions
   Proceedings of 16th International Conference on Digital Signal Processing, July 5–7 2009, Santorini, Greece, DSP 2009. New York: IEEE, 1-8, (2009),
2. H.-L. Zeng, Y.-D. Guo, C.-P. Zhu, **M. Mitrović** and B. Tadić
   Congestion patters of traffic studied on Nnjing city dual graph
   Proceedings of 16th International Conference on Digital Signal Processing, July 5–7 2009, Santorini, Greece, DSP 2009. New York : IEEE (2009),
3. J. Živković, **M.Mitrović** and B. Tadić
   Correlation patterns in gene expressions along the cell cycle of yeast
   Proceedings of International Workshop on Complex Networks (CompleNet 2009), May 26–27 2009, Catania, Italy. Studies in computational intelligence 207, 23–34, Springer, (2009),
4. **M. Mitrović** and B. Tadić
   Search of weighted subgraphs on complex networks with maximum likelihood methods
   International Conference on Computational Science, June 23–25 2008, Krakow, Poland, LNCS **5102**, 551–558 (2008).

Саопштења са међународних скупова штампана у изводу (M34)

Радови објављени након претходног избора у звање

1. J. Smiljanić and **M. Mitrović Dankulov**
   Conference attendance patterns
   Proceedings of 19th Symposium on Condensed Matter Physics, SFKM2015, September 7–11 2015, Belgrade, Serbia,

2. M. Andjelković, B. Tadić, **M. Mitrović**, and M. Rajković
   Algebraic Topology Analysis of Networks Emerging from Content-Driven Social Interactions
   Proceedings of From Data to Knowledge, the Third Annual Knowescape Conference, October 7–9 2015, Mons, Belgium,

3. **M. Mitrović Dankulov** and B. Tadić
   The dynamics of collective knowledge building via questions and answers Proceedings of International Conference on Computational Social Science, June 8–11 2015, Helsinki, Finland,

4. B. Tadić and **M. Mitrović Dankulov Modeling**
   The Dynamics of Knowledge Creation in Online Communities
   Proceedings of 7th International Conference on Discrete Models of Complex Systems, 2015 Summer Solstice, June 17–19, 2015, Toronto, Canada,

5. **M. Mitrović** and B. Tadić
   Quantitative Study of Innovation and Knowledge Building in Questions& Answers System with Math Tags
   Proceedings of The Second Annual KnowEscape Conference, KnowEscape2014, November 24–26 2014, Thessaloniki, Greece,

6. B. Tadić and **M. Mitrović**
   The Death of Expertise & Problems in Quantifying Collective Knowledge in Online Social
   Proceedings of The Second Annual KnowEscape Conference, KnowEscape2014, November 24–26 2014, Thessaloniki, Greece,

7. **M. Mitrović**, A. Chatterjee and S. Fortunato
   Universal Patterns of Voting Behavior
   Proceedings of The First Annual KnowEscape Conference, KnowEscape2013, November 18–20 2013, Helsinki, Finland,

8. **M. Mitrović**, A. Chatterjee and S. Fortunato
   Universality in voting behavior
   Proceedings of 5th International Conference on Information Technologies and Information Society ITIS 2013, November 7–9 2013, Dolenjske toplice, Slovenia,

9. **M. Mitrović** and B. Tadić
   Agent-Based Model Of Blogging
   Proceedings of European Conference on Complex Systems, Brussels, Belgium, September 3–7 2012.

Радови објављени пре претходног избора у звање

1. **M. Mitrović** and B. Tadić
   Modeling of emotional agents on Blogs Proceedings of Cyberemotions - collective emotions in cyberspace, September 20–21 2011, Ljubljana, Slovenia,

2. **M. Mitrović**
   Network based methodology for analysis of on-line collective behavior
   Proceedings of COST action NP0801 Second Annual Meeting: Physics of Competition and Conflicts, May 18–20, 2011, Eindhoven, Netherlands,

3. **M. Mitrović** and B. Tadić
   Complexity in the dynamics of Web users: Methodology for quantitative analysis of empirical data and simulations
   Proceedings of European Conference on Complex Systems, September 12–16 2011, Vienna, Austria,

4. **M. Mitrović**
   Bipartite network analysis reveals the role of emotion in comments on digg stories
   Proceedings of Processes on networs: hunting for universality in social, economical and Biological Networks, COST Woskhop, 10–12 March 2010, Vienna, Austria,

5. **M. Mitrović** and B. Tadić
   Emotions & user communities in Blogs and Diggs
   Proceedings of the CyberEmotions Workshop, 21–23 January 2010, Wolverhampton, UK,

6. **M. Mitrović** and B. Tadić
   Network structure and emotions on popular posts
   Proceedings of COST action NP0801 Second Annual Meeting: Physics of Competition and Conflicts, May 26–28 2010, Sunny Beach, Bulgaria,

7. **M. Mitrović** and B. Tadić
   Patterns of user behavior and community structure on blogs
   Proceedings of TWCS 2010, Turunc Workshop on Complex, 30 August – 1 September 2010, Turunc, Marmaris Turkey,

8. **M. Mitrović** and B. Tadić
   Agent based model for use behaviour on emergent networks
   Proceedings of Cyberemotions - collective emotions in cyberspace, September 8–9 2010, Lousanne, Switzerland,

9. **M. Mitrović**, B. Tadić and G. Paltoglou
   Collective emotional behavior on blogs : data-driven modeling and theoretical survey
   Proceedings of ECCS'10 Lisbon, European Conference on Complex Systems'10, September 13–17, 2010, Lisbon, Portugal

10. **M. Mitrović** and B. Tadić
    Spectral analysis of networks reveals communities in complex systems data
    Proceedings of COST action NP0801 First Annual Meeting: Physics of Competition and Conflicts and NET 2009: evolution and complexity, May 28–30 2009, Rome, Italy,

11. **M. Mitrović** and B. Tadić
    Finding structure in Blogs: bipartite networks analysis
    Proceeding of VALUETOOLS '09, the Fourth International ICST Conference on Performance Evaluation Methodologies and Tools (2009), October 20–22 2009, Pisa, Italy,

12. **M. Mitrović**
    Modularity of networks from the perspective of spectral analysis
    Proceedings of International Workshop and Seminar on Bio-inspired complex networks in Science and Technology, Max Planck Institute for the Physics of Complex Systems in Dresden, Germany, 2008.

Саопштење са скупа националног значаја штампано у целини (M63)

Радови објављени пре претходног избора у звање

1. **M. Mitrović** and A. Belić
   Heuristic Algorithm for Determining Local Properties of Scale-free Networks
   XVII National Symposium on Condensed Matter Physics, SFKM 2007, 16–20 September 2007, Vršac, Sebia.

Саопштење са скупа националног значаја штампано у изводу (M64)

Радови објављени пре претходног избора у звање

1. **M. Mitrović** and B. Tadić
   Network-based methodology for analysis of complex systems: theory & applications
   Book of abstract of XVII National Symposium on Condensed Matter Physics, SFKM 2011, April 18-22 2011, Belgrade, Serbia.

Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА
Комисија за стицање научних звања

Број:06-00-75/931
31.10.2012. године
Б е о г р а д

ИНСТИТУТ ЗА ФИЗИКА
ПРИМЉЕНО: 18 -12- 2012
Рад. јед. | број | прилог
орг | 1630/1 |

На основу члана 22. става 2. члана 70. став 5. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

Институт за физику у Београду

Комисија за стицање научних звања на седници одржаној 31.10.2012. године, донела је

ОДЛУКУ
О СТИЦАЊУ НАУЧНОГ ЗВАЊА

Др Марија Митровић
стиче научно звање
Научни сарадник

у области природно-математичких наука - физика

О Б Р А З Л О Ж Е Њ Е

Институт за физику у Београду

утврдио је предлог број 664/1 од 05.06.2012. године на седници научног већа Института и поднео захтев Комисији за стицање научних звања број 721/1 од 15.06.2012. године за доношење одлуке о испуњености услова за стицање научног звања ***Научни сарадник***.

Комисија за стицање научних звања је по предходно прибављеном позитивном мишљењу Матичног научног одбора за физику на седници одржаној 31.10.2012. године разматрала захтев и утврдила да именована испуњава услове из члана 70. став 5. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) за стицање научног звања ***Научни сарадник,*** па је одлучила као у изреци ове одлуке.

Доношењем ове одлуке именована стиче сва права која јој на основу ње по закону припадају.

Одлуку доставити подносиоцу захтева, именованој и архиви Министарства просвете, науке и технолошког развоја у Београду.

ПРЕДСЕДНИК КОМИСИЈЕ
др Станислава Стошић-Грујичић,
научни саветник

МИНИСТАР
Проф. др Жарко Обрадовић

Winter Workshop on Complex Systems 2017

Home Programme Lectures Participants Venue More

Winter Workshop on Complex Systems

Welcome! After the successful editions held in Brussels and Madrid, the Winter Workshop on Complex Systems is back!

From the **6th to the 10th of February 2017** we will be hosted at the **Petnica Science Center** in Serbia. Forty young researchers from all over the world will attend cutting-edge lectures, develop collaborative projects and discuss the latest on complexity science.

Deadline extended - apply until the 25th of November (23:59 CET)!!!

Invited Speakers


Dirk Brockmann
Humboldt University Berlin


Jesus Gomez-Gardeñes
University of Zaragoza


Matteo Marsili
ICTP


Marija Mitrovic Dankulov
Institute of Physics Belgrade

Organizers


Aleksandra Aloric
King's College London


Silvia Bartolucci
King's College London


Federico Battiston
Queen Mary University of London


Vladimir Gligorijevic
Imperial College London

Steering Committee


Alberto Antonioni
Carlos III University of Madrid


Jelena Grujic
Vrije Universiteit Brussel


Luis Martinez Vaquero
CNR


Massimo Stella
University of Southampton

IMPORTANT DATES:


Call for Applications
20th of October 2016


Deadline for Applications
~~20th of November 2016~~
25th of November 2016


Notifications of Acceptance
~~1st of December 2016~~
5th of December 2016

Follow us on Twitter

@wwcs_2017 (https://twitter.com/wwcs_2017)
Thu Feb 09 2017
#wwcs2017 (https://twitter.com/hashtag/wwcs2017) panel on scientific careers in academia and beyond starting now with a great set of speakers @SevenBridgesRS (https://twitter.com/SevenBridgesRS) https://t.co/fnpw5fveUu (https://t.co/fnpw5fveUu)

(https://twitter.com/intent/tweet?in_reply_to=829739453740642304) (https://twitter.com/intent/retweet?tweet_id=829739453740642304) ☆ (https://twitter.com/intent/favorite?tweet_id=829739453740642304)

@wwcs_2017 (https://twitter.com/wwcs_2017)
Thu Feb 09 2017
And more tutorials... #wwcs2017 (https://twitter.com/hashtag/wwcs2017) https://t.co/VKzUdNjBol (https://t.co/VKzUdNjBol)

(https://twitter.com/intent/tweet?in_reply_to=829659728242434048) (https://twitter.com/intent/retweet?tweet_id=829659728242434048) ☆ (https://twitter.com/intent/favorite?tweet_id=829659728242434048)

@wwcs_2017 (https://twitter.com/wwcs_2017)
Thu Feb 09 2017
Time for tutorials at #wwcs17 (https://twitter.com/hashtag/wwcs17) https://t.co/9J8bluLYub (https://t.co/9J8bluLYub)

Sponsors

SevenBridges
Seven Bridges Genomics Inc.

COMPLEX SYSTEMS SOCIETY
Complex Systems Society

Institute of Physics Belgrade

UNIVERSITY OF Southampton
University of Southampton

Quantifying collective behavior in social systems: a statistical physics approach - Abstract

Social systems consist of large number of interacting units (individuals, groups and organizations) and often exhibit an emergent collective behavior. As such they belong to a broader class of systems commonly referred as complex systems. The abundance of large scale social data led to the emergence of new interdisciplinary field known as 'computational social science' which brings together scientists from different traditional fields of science including mathematicians, computer scientists, theoretical physicists, sociologists, economists, etc. One of their main tasks is to identify, quantitatively describe and understand the emergent collective behavior in various social systems. Statistical physics, which has been proved to be versatile in modeling phenomena across different areas of physics, and beyond, seems to be the most desired tool even for the above emerging discipline. In this talk I will present methodology, a combination of tools and methods of statistical mechanics, complex network theory and theoretical modeling, which can be used for quantitative description of collective behavior in online social systems such as collective emotional behavior and collaborative knowledge building.

Matteo Marsili is a Senior Research Scientist and coordinator of the Quantitative Life Sciences sector of the Abdus Salam ICTP, Trieste. He is a world-leading and polyhedric scientist, equally interested in fundamental problems in statistical physics and more applicative directions of research. He is interested in the study of non-equilibrium critical phenomena, disordered systems, and stochastic processes. He works on applications of statistical physics, including modeling socio-economic phenomena and financial markets, game theory, and biological networks. His contributions include also Information theory, statistical learning and high-dimensional inference in complex systems.

He will lecture on High Dimensional Inference.

Relevant literature here!

Marija Mitrovic Dankulov

Marija Mitrovic Dankulov is assistant research professor at the Scientific Computing Laboratory and deputy head of Innovation Centre at the Institute of Physics Belgrade, University of Belgrade. She has extensive knowledge and experience in theoretical and computational physics. Her main research interest are statistical physics of complex systems, with the emphasis on physics of socio-economic systems, and theory of complex networks. She completed her PhD in statistical physics at the Faculty of Physics, University of Belgrade in 2012. After her PhD studies, during which she was employed at the Department of Theoretical Physics, Institute Jožef Stefan, Slovenia, she undertook postdoctoral work at Department of Biomedical Engineering and Computational Science, School of Science Aalto University, Finland.

She will lecture on Collective Behavior in Social Systems.

Abstract here!

© 2016 by wwcs2017 organizers.

VISITS 2,023
WEB-STAT 1 NOW

Subject **Invitation from SFKM 2015**
From Leonardo Golubovic <Leonardo.Golubovic@mail.wvu.edu>
To marija.mitrovic@ipb.ac.rs <marija.mitrovic@ipb.ac.rs>
Date 2015-01-16 08:46

Faculty of Physics University of Belgrade

Institute of Physics Belgrade

Institute for Nuclear Sciences "Vinca" Belgrade

Serbian Academy of Sciences and Arts

Dr. Marija Mitrovic
Scientific Computing Laboratory
Institute of Physics Belgrade
Pregrevica 118
11080 Belgrade, Serbia

Dear dr. Mitrovic,

On behalf of the Organizing and Program Committees and my own, it is my privilege and pleasure to offer you to give an invited talk at the ***19th Symposium on Condensed Matter Physics - SFKM 2015***, to be held in Belgrade, Serbia, September 7-11, 2015.

We are hoping that you can accept the invitation and are looking forward to your response. More information about the conference can be found posted at http://www.sfkm.ac.rs

We would be very grateful if you could send us a tentative title or subject of your talk at your earliest convenience, as this would be very helpful for our planning the conference sessions.

We are looking forward to meeting you in Belgrade in September.

Sincerely yours,

SFKM 2015 Chair
Prof. Leonardo Golubovic
West Virginia University, USA

XIX Symposium on Condensed Matter Physics SFKM 2015

Book of Abstracts

7 – 11 September 2015
Belgrade, Serbia

Invited Speakers

Marco Aprili, *Université Paris-Sud 11*
Fakher F. Assaad, *University of Würzburg*
Dora Balazs, *Budapest University of Technology and Economics*
Stefano Baroni, *Scuola Internazionale Superiore di Studi Avanzati (SISSA)*
Wolfgang Belzig, *University of Konstanz*
Nataša Bibić, *Vinča Institute of Nuclear Sciences*
Alexandre Bouzdine, *Université de Bordeaux 1*
Emil Božin, *Brookhaven National Laboratory*
Ivan Božović, *Brookhaven National Laboratory*
Christoph Bruder, *University of Basel*
Harald Brune, *Ecole Polytechnique Fédérale de Lausanne*
Hrvoje Buljan, *University of Zagreb*
Emmanuele Cappelluti, *Sapienza Università di Roma*
Milan Damnjanović, *Faculty of Physics Belgrade*
Edib Dobardžić, *Faculty of Physics Belgrade*
Marija Drndić, *University of Pennsylvania*
Gyula Eres, *Oak Ridge National Laboratory*
Leonardo Golubović, *West Virginia University*
Mirjana Grujić-Brojčin, *Institute of Physics Belgrade*
Bjørk Hammer, *Aarhus University*
Igor Herbut, *Simon Fraser University*
Zoran Ikonić, *University of Leeds*
Zoran Ivić, *Vinča Institute of Nuclear Sciences*
Vladimir Juričić, *University of Utrecht*
Jane Kondev, *Brandeis University*
Zorica Konstantinović, *Institute of Physics Belgrade*
Igor M. Kulić, *Institut Charles Sadron*
Nenad Lazarević, *Institute of Physics Belgrade*
Marjana Ležaić, *Forschungszentrum Jülich*
Stergios Logothetidis, *Aristotle University of Thessaloniki*
Aleksandar Matković, *Institute of Physics Belgrade*
Ivanka Milošević, *Faculty of Physics Belgrade*
Milorad Milošević, *University of Antwerp*
Milica Milovanović, *Institute of Physics Belgrade*
Zoran Mišković, *University of Waterloo*
Marija Mitrović, *Institute of Physics Belgrade*
Stevan Nađ-Perge, *California Institute of Technology*
Branislav Nikolić, *University of Delaware*
Predrag Nikolić, *George Mason University*
Zlatko Papić, *University of Leeds*
Čedomir Petrović, *Brookhaven National Laboratory*
Dragana Popović, *Florida State University*
Velimir Radmilović, *Faculty of Technology and Metallurgy Belgrade*
Zoran Radović, *Faculty of Physics Belgrade*
Milan Rajković, *Vinča Institute of Nuclear Sciences*
Valery Ryazanov, *Institute of Solid State Physics Chernogolovka*
Miljko Satarić, *Faculty of Technical Sciences Novi Sad*
Rastko Sknepnek, *University of Dundee*
Đorđe Spasojević, *Faculty of Physics Belgrade*
Dimitrije Stepanenko, *Institute of Physics Belgrade*
Željko Šljivančanin, *Vinča Institute of Nuclear Sciences*
Nenad Švrakić, *Institute of Physics Belgrade*
Bosiljka Tadić, *Jožef Štefan Institute*
Milan Tadić, *School of Electrical Engineering Belgrade*
Darko Tanasković, *Institute of Physics Belgrade*
Christian Teichert, *Montan University*
Stefan Thurner, *Medical University of Vienna*
Jack Tuszynski, *University of Alberta*
Mihajlo Vanević, *Faculty of Physics Belgrade*
Ivana Vasić, *Institute of Physics Belgrade*
Vladan Vuletić, *Massachusetts Institute of Technology*
Ilija Zeljković, *Boston College*

Quantitative Study and Modeling of Collective Knowledge Building via Questions and Answers

Marija Mitrović Dankulov[a] and Bosiljka Tadić[b]

[a]*Scientific Computing Laboratory, Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*
[b]*Department of Theoretical Physics, Jozef Stefan Institute, Ljubljana, Slovenia*

Abstract.
Collective knowledge building is a socio-cultural process which takes place trough self-organized dynamics of interactions among individuals with limited level of expertise. Question and Answers (Q&A) sites are excellent repositories of collective knowledge and provide a proper environment where the dynamics of collective knowledge building can be studied. On these sites individuals engage in collaborative solving of specific problems by asking, answering and commenting questions. By combining the stochastic model with the empirical analysis of data from Q&A, we show that collective knowledge emerges as a collective phenomena in large network of actors and artefacts. We examine this collective behaviour by measuring the information divergence and advance of knowledge over time and by analysing the characteristic self-organisational patterns. We also examine the structure of connections and formation of communities with the respect to the level of expertise in the system, which we vary within the model. Our results show that the dynamics of collective knowledge building is strongly influenced by the distribution of expertise in the system.


INTERNATIONAL
CONFERENCE
ON
COMPUTATIONAL
SOCIAL
SCIENCE
June 8- 11, 2015
Finlandia Hall, Helsinki, Finland
IC²S²

Computational social science & IC2S2

Information and Communication Technologies (ICT) have radically transformed society. New channels of communications were opened, and the ways people behave and relate to each other have been quickly changing overthe past years.

But ICT also gives us new powerful instruments to investigate them. A chronic deficiency of the social sciences has long been the impossibility to acquire empirical evidence about social behavior involving large groups of individuals, far beyond the limits imposed by research questionnaires or lab experiments.

Nowadays humans leave an enormous amount of digital traces of activities such as communications, discussions, trading, mobility. Emails, mobile phone calls, instant messaging, tweets, Facebook posts, online transactions offer a wealth of data concerning the behavior of millions of individuals. Such data deluge allows scholars to investigate social behavior at an unprecedented level of detail. Moreover, it has also broadened the spectrum of processes susceptible of investigation, with the inclusion of formerly inaccessible mass phenomena, such as migrations, the diffusion of diseases, the consumption or prodution of goods, information spreading, organized crime.

The new era of Computational Social Science has then begun. IC2S2 2015 is the first global event on computational social science. Topics of interest include:

- Social networks
- Social contagion
- Agent-based modeling
- Communication dynamics
- Information diffusion and other spreading phenomena
- Social influence
- Opinion dynamics
- Wisdom of crowds
- Mobility
- Popularity dynamics
- Smart cities
- Group formation
- Games and economic behavior
- Science of success

General info

Registration and information desk:

Opening hours during the conference:
Monday, June 8: 08.15 – 18.00
Tuesday, June 9: 08.30 – 16.00
Wednesday, June 10: 08.30-17.30
Thursday, June 11: 08.30 – 17.00
Tel: +358 40 778 1770 (Karoliina Sunell, Tavicon Ltd.)
Tel: +358 40 772 7689 (Pia Banerjee-Rikkonen, Tavicon Ltd.)
Email: iccss2015@tavicon.fi

Internet access:

Participants have a free Internet access in Finlandia Hall during the conference. Username: FinlandiaHall, no password.

Name badges:

Participants are asked to wear their conference name badges at all times when at the conference site and during the social program

Lunch and coffee breaks:

Lunch is included in the conference registration fee. Lunch will be served in the restaurant halls, level 2.

Live streaming:

All plenary sessions of the conference will be streamed live on You Tube, at channel:
https://t.co/cUxf7LOBX4

Transport:

Taxi Helsinki: +358 100 0700, +358 100 0600
Public transportation: http://www.reittiopas.fi/en/

Poster presentations:

Posters 1 will be on display on Monday, June 8th and Posters 2 on Wednesday, June 10th in the restaurant halls, level 2. The authors are requested to be in the proximity of their posters during the Poster Sessions, at 15.30 – 17.00 on Monday and at 16.00 – 17.30 on Wednesday.

Program Monday, June 8

Opening (08:45-09:00, Hall A)
Plenary (09:00-10:35, Hall A)

CHAIR: Lada Adamic

9:00 Michael Macy: *Opportunities and challenges for computational social science*
9:40 Jure Leskovec: *Structure and dynamics of information propagation*
10:20 Omar Guerrero, Eduardo López and Robert Axtell. *Labor flows and unemployment mediated by networks*

Coffee Break (10:35-11:05)

Plenary (11:05-12:40, Hall A)

CHAIR: Andreas Flache

11:05 Duncan Watts: *An experimental study of collective self-organization in crisis mapping*
11:45 Matthew Jackson: *Multiplexing and the interaction between borowing, favor exchange, and advicenetworks: how changes in one social network lead to changes in another*
12:25 Telecom Italy (SKIL Lab & Future Center), Fondazione Bruno Kessler (I3 & Mobs), MIT - Media Lab. (Human Dynamics), Telefonica R & D (User and Media Intelligence), Trento-RISE (smart CROWDS). *The Mobile Territorial Lab – A joint research/industrial living lab to investigate individual and social dynamics*

Lunch (12:40-14:00)

14:00 Parallel Sessions I

I Networks (14:00-15:30, Hall A)

CHAIR: Martin Rosvall

14:00 János Kertész, Balázs Lengyel, Bence Sagvari, János Török and Zhongyuan Ruan. *The full life cycle of an online social network*
14:15 Young- Ho Eom and Hang- Hyun Jo. *Generalized friendship paradox in social networks: why our friends are "better" than we are*
14:30 Marcella Tambuscio, Giancarlo Ruffo, Alessandro Flammini and Filippo Menczer. *Fact-checking effect on viral hoaxes: a model of misinformation spread in social networks*
14:45 Tal Altshuler, Yoram Shiftan, Rachel Katoshevski, Nuria Oliver, Alex Pentland, Erez Shmueli and Yaniv Altshuler. *The network dimension of ride sharing*
15:00 Martha Russell, Jukka Huhtamäki, Kaisa Still, Neil Rubens, Jiafeng Yu and Rahul Basole. *Visualizing transformative networks in innovation ecosystems*
15:15 Valerio Ciotti, Vito Latora and Pietro Panzarasa. *Birds of a feather? Revisiting homophily and tie creation in social networks*

II Online Social Media (14:00-15:30, Hall B)

CHAIR: Bruno Lepri

14:00 Venkata Rama Kiran Garimella, Ingmar Weber and Sonya Dal Cin. *From "I love you babe" to "leave me alone" - romantic relationship breakups on Twitter*
14:15 Galena Kostoska, Marcos Baez, Florian Daniel and Fabio Casati.*Virtual, remote participation in museum visits by older adults*
14:30 Riccardo Fusaroli, Marcus Perlman, Alan Mislove, Alexandra Paxton, Teenie Matlock and Rick Dale. *Timescales of massive human entrainment*
14:45 Kazutoshi Sasahara. *Emergence of novel collective phenomena in Twitter*
15:00 Luca Maria Aiello, Rossano Schifanella and Bogdan State.

Decomposition of social ties with Blau's exchange theory
15:15 Yelena Mejova and Bob Boynton. *Language plurality in Twitter political speech*

III Games and Economic Behavior (14:00-15:30, Room 22-24)

CHAIR: René Algesheimer

14:00 Matthieu Cristelli, Andrea Tacchella and Luciano Pietronero. *Measuring the Intangible growth potential of countries: weather-like forecasting for economics*
14:15 Jeffrey Naecker and Alexander Peysakhovich. *Evaluating models of choice under risk and ambiguity using methods from machine learning*
14:30 Katarzyna Growiec and Jakub Growiec. *The impact of bridging and bonding social capital on individual earnings: evidence for an inverted U*
14:45 Per Engström and Eskil Forsell. *Demand effects of consumers' stated and revealed preferences*
15:00 Alessio E. Biondo, Alessandro Pluchino, Andrea Rapisarda and Dirk Helbing. *Micro and macro benefits of random investments in financial markets*
15:15 Lukas Norbutas and Rense Corten. *Freecycling in the sharing economy: sustainability of generalized exchange in Facebook networks*

IV Opinion Dynamics (14:00-15:30, Room 25-26)

CHAIR: Daniele Vilone

14:00 Michael Mäs and Lukas Bischofberger. *Web personalization and opinion polarization*
14:15 Rion Brattig Correia, Kwan Nok Chan and Luis M. Rocha. *Discourse polarization in the US congress*
14:30 Philippos Louis, Orestis Troumpounis and Nikolaos Tsakas. *On the unidimensionality of opinions: an experiment*
14:45 Hitoshi Yamamoto, Yuki Ogawa, Tetsuro Kobayashi and Takahisa Suzuki. *Effects of social media contacts on perceived distributions of opinions*
15:00 Samuel Martin, Corentin Vande Kerckhove, Pascal Gend, Peter J.

Rentfrow, Julien M. Hendrickx and Vincent D. Blondel. *Modeling influence and opinion evolution in online collective behavior*
15:15 Alexandru-Ionut Babeanu, Leandros Talman and Diego Garlaschelli. *Structural properties of realistic cultural space distributions*

V Content Analysis (14:00-15:30, Terrace Hall)

CHAIR: Johan Ugander

14:00 Matthew Denny, James Ben- Aaron, Hanna Wallach and Bruce Desmarais. *Content-conditioned hierarchical latent space models for textual communication networks*
14:15 Sergei Koltcov, Olessia Koltsova and Sergey Nikolenko. *Topic modeling stability and granulated LDA*
14:30 Martin Gerlach, Tiago P. Peixoto and Eduardo G. Altmann. *Community detection of words: topic models and scaling laws*
14:45 Bruno Gonçalves and David Sánchez. *Crowdsourcing dialect characterization through Twitter*
15:00 George Gkotsis, Maria Liakata, Carlos Pedrinaci and John Domingue. *Leveraging textual features for best answer prediction in community based question answering*
15:15 Suin Kim, Ingmar Weber, Li Wei and Alice Oh. *Sociolinguistic analysis of Twitter in multilingual societies*

Posters 1 & Coffee Break (15:30-17:00, Restaurant)

17:00 Parallel Sessions II

I Networks (17:00-18:00, Hall A)

CHAIR: Martha Russell

17:00 Alex Stivala, Johan Koskinen, David Rolls, Peng Wang, Garry Robins and Alessandro Lomi. *Modeling large social networks via snowball samples*

17:15 Ming-Xia Li, Vasyl Palchykov, Zhi-Qiang Jiang, Kimmo Kaski, János Kertész, Salvatore Micciché, Michele Tumminello, Wei-Xing Zhou and Rosario Nunzio Mantegna. *Statistically validated mobile communication networks: Evolution of motifs in European and Chinese data*
17:30 Tomaso Aste, Guido Previde Massara, Wolfram Barfuss, Rodrigo Ma-zorra, Philip C Treleaven and Tiziana Di Matteo. *Making sense from big data: a network information filtering approach*
17:45 Eugenio Valdano, Luca Ferreri, Chiara Poletto and Vittoria Colizza. *Analytical computation of the epidemic threshold on temporal networks*

II Online Social Media (17:00-18:00, Hall B)

CHAIR: Giancarlo Ruffo

17:00 Paul Laufer, Claudia Wagner, Fabian Flöck and Markus Strohmaier *Mining cross-cultural relations from Wikipedia - A study of 31 European food cultures*
17:15 Venkata Rama Kiran Garimella and Ingmar Weber. *Co-Following on Twitter*
17:30 Rossano Schifanella, Miriam Redi and Luca Maria Aiello. *An image is worth more than a thousand favorites*
17:45 Géraud Le Falher, Aristides Gionis and Michael Mathioudakis. *Where is Beverly Hills in your town? Finding similar neighborhoods across cities through social media activity*

III Games and Economic Behavior (17:00-18:00, Room 22-24)

CHAIR: Ángel Sánchez

17:00 Daniele Vilone, José J. Ramasco, Anxo Sánchez and Maxi San Miguel. *Social imitation vs strategic choice in the networked prisoner's dilemma*
17:15 Toni Perez, Jordi Zamora-Munt and Victor M. Eguiluz. *A Web-based platform for analysing decision making choices from a collective guessing game*
17:30 Griffith Rees and Felix Reed-Tsochas. *Mechanisms of social system*

decline: why Sysops left Fidonet
17:45 Nicolas Della Penna, Eaman Jahani, Peter Krafft, Alex Pentland and Julian Mcauley. *Bubbles and network structure: a study in cryptocurrencies*

IV Spreading Phenomena (17:00-17:45), Room 25-26)

CHAIR: James Gleeson

17:00 Génois Mathieu, Christian Vestergaard, Ciro Cattuto and Alain Barrat. *Reconstructing sampled temporal networks of contacts for the simulation of epidemic spread*
17:15 Claudio Juan Tessone. *Network volatility as a source of collective dynamics*
17:30 Roberto Visintainer, Piero Poletti, Bruno Lepri and Stefano Merler.*The relevance of social contacts in the transmission of seasonal influenza*
17:45 Przemyslaw Grabowicz, Niloy Ganguly and Krishna Gummadi. *Microscopic description of information diffusion*

V Wisdom of Crowds (17:00-18:00, Terrace Hall)

CHAIR: Taha Yasseri

17:00 Johan Ugander, Ryan Drapeau and Carlos Guestrin. *The wisdom of multiple guesses: a simple strategy for eliciting and aggregating uncertainty*
17:15 Yves-Alexandre de Monjoye, Arkadiusz Stopczynski, Erez Shmueli, Alex Pentland and Sune Lehmann. *The strength of the strongest ties in collaborative problem solving*
17:30 Giacomo Livan and Matteo Marsili. *What do leaders know?*
17:45 Sebastian Herrmann, Franz Rothlauf and Joern Grahl. *Social network studies: on the influence of task difficulty on problem solving*

Reception at City Hall (19:00-20:30, Market Square)

Plenary (09:00-10:35, Hall A)

CHAIR: Alex Pentland

9:00 Albert-László Barabási: *Science of success: quantifying outcomes in social systems*
9:40 Nicholas Christakis: *The evolutionary significance of human social networks*
10:20 Petter Holme and Jari Saramäki. *A paradox of importance in network epidemiology*

Coffee Break (10:35-11:05)

Plenary (11:05-12:30, Hall A)

CHAIR: Jure Leskovec

11:05 Sinan Aral: *The dynamics of social influence and reputation online*
11:45 Daniela Iosub, David Laniado, Carlos Castillo, Mayo Fuster Morell and Andreas Kaltenbrunner. *Networked emotions and communication styles in online collaboration*
12:00 Jingwen Zhang, Devon Brackbill, Sijia Yang and Damon Centola. *Engineering behavior change through social media*
12:15 José A. Cuesta, Carlos Gracia-Lázaro, Alfredo Ferrer, Yamir Moreno and Anxo Sánchez. *Reputation drives cooperative behavior and network formation in human groups*

Lunch (12:30-14:00)

Panel (14:00-15:30, Hall A)

1. CHAIR: Barbara Jasny (editor of Science)
2. Patrick Goymer (editor of Nature)
3. Kathryn Coronges (executive director of the Network Science Institute of Northeastern University)
4. Ivica Cubic (officer of the European Commission)
5. Lada Adamic (Facebook)
6. Nicholas Christakis (Yale)
7. Duncan Watts (Microsoft)

Coffee Break (15:30-16:00)

Boat Trip + Social Dinner (18:30-23:00)

Plenary (09:00-10:35, Hall A)

CHAIR: Matthew Jackson

9.00 Alex Pentland: *On collective action*
9:40 Dirk Helbing: *A digital Nervousnet for everyone and the golden age of complexity science*
10:20 Riccardo Fusaroli and Kristian Tylén. I*nvestigating conversational dynamics: interactive alignment, interpersonal synergy, and collective task performance*

Coffee Break (10:35-11:05)

Plenary (11:05-12:30, Hall A)

CHAIR: Robin Dunbar

11:05 Alessandro Vespignani (EPJ Data Science Lecturer): *Computational epidemiology does more than forecast*
11:45 Seth Frey and Robert L. Goldstone. *Robust nonconvergent flocking behavior in three different games of iterated reasoning*
12:00 Andrea Baronchelli and Damon Centola. *The emergence of social conventions: an experimental study*
12:15 Milena Tsvetkova and Michael Macy. *The contagion of prosocial behavior and the emergence of voluntarycontribution communities*

Lunch (12:30-14:00)

14:00 Parallel Sessions I

I Networks (14:00-16:00, Hall A)

CHAIR: János Kertész

14:00 Mark Lutter. *Do Women Suffer from Network Closure? The moderating effect of social capital on gender inequality in a project-based labor market, 1929-2010*
14:15 Georgios Rizos, Symeon Papadopoulos and Yiannis Kompatsiaris. *Learning to classify users in online interaction networks*
14:30 Kaj Kolja Kleineberg and Marian Boguña. *Digital ecology:co-exitence and domination among interacting networks*
14:45 Abel Camacho Guardian, Radu Tanase, Claudio Juan Tessone and René Algesheimer. *A generalization of exponential random graph models for multiple networks*
15:00 Patrick Park and Michael Macy. *Cultural correlates of network clustering*
15:15 Laetitia Gauvin, André Panisson, Alain Barrat and Ciro Cattuto. *Revealing mesocale structures to control dynamical processes in socio-technical systems*
15:30 Michele Starnini, Antoine Moinet and Romualdo Pastor-Satorras. *Burstiness and aging in social temporal networks*
15:45 Fariba Karimi, Ludvig Bohlin, Ann Samoilenko, Martin Rosvall and Andrea Lancichinetti. *Local interests in a global world*

II Online Social Media (14:00-16:00, Hall B)

CHAIR: Matteo Magnani

14:00 Olga Kolchyna, Philip C. Treleaven, Thársis T. P. Souza and Tomaso Aste. *In quest of significance: identifying bursts in social-media that predict consumer sales*
14:15 Fabio Celli, Bruno Lepri and Michal Kosinski. *Prediction of personality from Facebook profile pictures*
14:30 Richard Jayadi Oentaryo, Jia-Wei Low, Arinto Murdopo, Philips Kokoh Prasetyo and Ee-Peng Lim. *Characterizing humans and bots in social media*
14:45 Emre Kiciman. *Towards decision support and goal achievement: identifying action-outcome relationships from social media*
15:00 Lu Chen, Ingmar Weber and Adam Okulicz-Kozaryn. *U.S. religious landscape on Twitter*

15:15 Aris Anagnostopoulos, Fabio Petroni and Mara Sorella. *COLITA: Collaborative Interest-driven Targeted Advertising*
15:30 Young-Ho Eom, Pablo Aragón, David Laniado, Andreas Kaltenbrunner, Sebastiano Vigna and Dima L. Shepelyansky. *Assessing inter-cultural influences through ranking biographies*
15:45 José M. Miotto, Holger Kantz and Eduardo Altmann. *Modelling the popularity dynamics of online videos*

III Games and Economic Behavior (14:00-16:00, Room 22-24)

CHAIR: Felix Reed-Tsochas

14:00 Andreas Diekmann, Ben Jann, Wojtek Przepiorka and Stefan Wehrli. *Using 'big data' to investigate reputation formation and feedback giving in anonymous online markets*
14:15 Riccardo Di Clemente, Guido L. Chiarotti, Matthieu Cristelli, Andrea Tacchella and Luciano Pietronero. *Diversification versus specializationin complex ecosystems*
14:30 Adrien Querbes. *Growth, reputation and information diffusion in the profit-based sharing economy*
14:45 Simon Gaechter, Chris Starmer and Fabio Tufano. *Social relations and coordination: the value of 'oneness'*
15:00 Alberto Antonioni, Ángel Sánchez and Marco Tomassini. *Spatial coordination and cooperation among humans: experimental results*
15:15 Marco Alberto Javarone. *Is poker a skill game?*
15:30 Julia Poncela-Casasnovas, Joan T. Matamalas, Sergio Gómez and Alex Arenas. *Strategical incoherence regulates cooperation in social dilemmas on multiplex networks.*
15:45 David Garcia and Frank Schweitzer. *Trading and social signals in the Bitcoin ecosystem.*

IV Spreading Phenomena (14:00-16:00, Room 25-26)

CHAIR: Petter Holme

14:00 James Gleeson, Kevin O'Sullivan, Raquel Banos and Yamir Moreno. *Effects of memory and network structure on memes competing for popularity*
14:15 Chiara Poletto, Marcelo Gomes, Ana Pastore Y Piontti, Luca Rossi, Livio Bioglio, Dennis Chao, Ira Longini, Elizabeth Halloran, Vittoria Colizza and Alessandro Vespignani. *Global reaction to the 2014 West Africa Ebola epidemic: modification of the global air-travel network and its impact on the international epidemic spread*
14:30 Clara Granell, Alex Arenas and Sergio Gómez. *Analysis of endognous and exogenous effects on competing spreading processes.*
14:45 Se-Wook Oh and Mason Porter. *Complex contagions with lazy adoption*
15:00 Lewis Mitchell and James Bagrow. *Predictability and social information flow*
15:15 Yang Yang, Jie Tang, Cane Wing-Ki Leung, Yizhou Sun, Qicong Chen, Juanzi Li and Qiang Yang. *RAIN: social role-aware information diffusion*
15:30 Soheil Feizi, Ken Duffy, Manolis Kellis and Muriel Medard. *Network infusion to infer information sources in networks*

V Agent Based Models (14:00-16:00, Terrace Hall)

CHAIR: Károly Takács

14:00 Christian Bongiorno, Rosario Nunzio Mantegna and Salvatore Micciché. *An agent based model of air traffic management*
14:15 Milena Tsvetkova, David Sumpter and Lovisa Sumpter. *Experimental evidence for the Schelling segregation model*
14:30 Franziska Appel, Alfons Balmann, Changxing Dong and Jens Rommel. *FarmAgriPoliS -- An agent-based model to conduct behavioral experiments with farmers*
14:45 Tobias Schroeder, Jesse Hoey and Kimberly B. Rogers. *Modeling dynamic identities and uncertainty in social interactions: Bayesian affect control theory*
15:00 Frensis Bras, Laia Bécares, James Nazroo and Nick Shryane. *The*

association between ethnic concentration and racism: an agent-based modelling approach
15:15 Gerardo Iñiguez, Márton Karsai, Riivo Kikas, Zhongyuan Ruan, Kimmo Kaski and János Kertész. *Modelling the slow adoption of technology in online societies*
15:30 Giangiacomo Bravo, Flaminio Squazzoni, Lorena Cadavid and Francisco Grimaldo. *Why do we need more than one referee? A game theory inspired agent-based model of peer review*
15:45 Sean Reardon, Rachel Baker, Matt Kasman, Daniel Klasik and Joseph Townsend. *Simulation models of the effects of race- and socioeconomic-based affirmative action policies*


Posters 2 & Coffee Break (16:00-17:30, Restaurant)

17:30 Parallel Sessions II


I Networks (17:30-18:30, Hall A)


CHAIR: Alex Arenas

17:30 Radu Marculescu. *Understanding communities at nanoscale: bacteria networks formation, dynamics, and control for healthcare applications*
17:45 Ulrich Matter and Omar Guerrero. *Uncovering vote trading through networks and computation*
18:00 Martin Rosvall, Renaud Lambiotte, Andrea Lancichinetti, Manlio De Domenico and Alex Arenas. *Higher-order network flows captured by memory and multiplex networks and their effects on community detection*
18:15 Vedran Sekara and Sune Lehmann. *High-resolution dynamics of social behaviour*


II Online Social Media (17:30-18:30, Hall B)


CHAIR: Nitesh Chawla

17:30 Javier Borge-Holthoefer, Walid Magdy, Kareem Darwish and Ingmar

Weber. *Content and network dynamics behind Egyptian political polarization on Twitter*
7:45 Philipp Singer, Florian Geigl, Denis Helic, Andreas Hotho and Markus Strohmaier. *Bayesian comparison of hypotheses about human trails on the Web*
18.00 Arnau Gavaldà, David R. Choffnes, John S. Otto, Mario A. Sánchez, Fabian E. Bustamante, Luis A.N. Amaral, Roger Guimera and Jordi Duch. *Understanding user behaviour in massive decentralized sharing networks*
18:15 Jared Lorince, Kenneth Joseph and Peter Todd. *Do tags really functions as retrieval aids?*


III Games and Economic Behavior (17:30-18:30, Room 22-24)


CHAIR: Ravi Vatrapu

17:30 Fabio Saracco, Riccardo Di Clemente, Andrea Gabrielli and Luciano Pietronero. *From innovation to diversification: a simple competitive model*
17:45 Zhao Yang, Claudio Tessone, Radu Tanase and René Algesheimer. *Fraud behavior on an online shopping platform*
18:00 Jonathan Gray, Jakub Bijak and Seth Bullock. *Decision theoretic agent based modelling: pregnancy and alcohol misuse*
18:15 Nicholas Sabin and Felix Reed-Tsochas. *Structural embeddedness and economic performance in microfinance*


IV Opinion Dynamics (17:30-18:30, Room 25-26)


CHAIR: Michael Mäs

17:30 Marco Alberto Javarone and Serge Galam. *Modeling group polarization in terrorism dynamics*
17:45 Toni Perez, Juan Fernandez-Gracia, José J. Ramasco and Victor M Eguiluz. *Persistence in collective behavior: stronghold dynamics in elections*

Program Wednesday, June 10

18:00 Guillem Mosquera-Doñate and Marian Boguña. *Follow the leader: herding behavior in heterogeneous populations*
18:15 Ali Nahm, Alex Pentland and Peter Krafft. *Measuring the political preferences of the U.S. electorate*

V Influence (17:30-18:30, Terrace Hall)

CHAIR: Seth Frey

17:30 Antonios Proestakis, Eugenia Polizzi di Sorrentino, Ankur Mani, Sandra Caldeira, Helen Brown, Esther van Sluijs and Benedikt Herrmann. *Social based incentives for increasing physical activity: a school based field experiment.*
17:45 Bas Hofstra, Rense Corten and Vincent Buskens. *Learning in social-networks: selecting profitable choices among alternatives of uncertain profitability in various networks*
18:00 Márton Karsai, Gerardo Iñiguez, Kimmo Kaski and János Kertész. *Complex contagion process in spreading of online innovation*
18:15 Matthew Denny. *Inferring latent influence diffusion networks in the United States Senate*

Plenary (09:00-10:35, Hall A)

CHAIR: Michael Macy

9:00 Lada Adamic: *From friend to friend to friend: information diffusion on Facebook*
9:40 Andreas Flache: *The complexity of social integration: a chance and a challenge for big data?*
10:20 Peter Burnap and Matthew Williams. *Computational human security analytics using big data*

Coffee Break (10:35-11:05)

Plenary (11:05-12:30, Hall A)

CHAIR: Sinan Aral

11:05 Robin Dunbar: *Does the Internet really allow you to have more-friends?*
11:45 Andrey Bogomolov, Bruno Lepri, Roberto Larcher, Fabrizio Antonelli, Fabio Pianesi and Alex Pentland. *Energy consumption prediction using people dynamics derived from cellular network data*
12:00 Evangelos Pournaras, Matteo Vasirani, Robert Kooij and Karl Aberer. *Socio-technical trade-offs in self-regulating smart grids*
12:15 Joscha Legewie. *Edge detection algorithms, neighborhood boundaries and the consequences for violent crime and inter-ethnic conflict*

Lunch (12:30-14:00)

Science Meets Industry (14:00-15:00, Hall A)

CHAIR: Ingmar Weber

14:00 Supercell: Ville Suur-Uski. *Clans and social interactions in Clash of Clans*

14:20 Reaktor: Juuso Parkkinen. *Probabilistic programming for understanding regional trends in apartment prices*
14:30 Comptel: Matti Aksela. *Practical application of machine learning through a cloud based delivery model for the Internet of Things*
14:40 Elisa: Kimmo Pentikäinen. *Finland - the highest mobile data usage in the world*

Break (15:00-15:15)

15:15 Parallel Sessions I

I Networks (15:15-16:15, Hall A)

CHAIR: Jari Saramäki

15:15 Nitesh Chawla, Jie Tang and Yuxiao Dong. *The evolution of social strategies across the lifespan*
15:30 Sergey Melnik, Mason Porter, Peter Mucha and James Gleeson. *Modelling social contagion on heterogeneous networks of networks*
15:45 Polina Rozenshtein, Aris Anagnostopoulos, Aristides Gionis and Tatti Nikolaj. *Event detection in activity networks*
16:00 Luca Marotta, Salvatore Micciché, Yoshi Fujiwara, Hiroshi Iyetomi, Hideaki Aoyama, Mauro Gallegati and Rosario Mantegna. *Bank-firm credit network in Japan. An analysis of a bipartite network*

II Online Social Media (15:15-16:15, Hall B)

CHAIR: Alex Peysakhovich

15:15 Alessandro Bessi, Michela Del Vicario, Fabiana Zollo, Guido Caldarelli, Antonio Scala and Walter Quattrociocchi. *Misinformation on online social Media*
15:30 Claudia Wagner, Mohsen Jadidi, David Garcia and Markus Strohmaier. *Gender inequalities on Wikipedia*

15:45 David Garcia, Ingmar Weber and Venkata Rama Kiran Garimella.*Gender asymmetries in reality and fiction: the bechdel test of social media*
16:00 Aniko Hannak, Drew Margolin and Ingmar Weber. *Political fact checking on Twitter: when do corrections have an effect?*

III Games and Economic Behavior (15:15-16:15, Room 22-24)

CHAIR: Juuso Välimäki

15:15 Duy Vu, Paola Zappa and Alessandro Lomi. *The micro-relational structure of the interbank overnight money market*
15:30 Andrea Gabrielli, Giulio Cimini, Diego Garlaschelli and Tiziano Squartini. *Systemic risk analysis in reconstructed economic and financial networks*
15:45 Jelena Grujic and Henrik Jeldtoft Jensen. *Model of intermittent behaviour based on multistrategy game*
16:00 Gabriel Rosser, Toby Davies and Tao Cheng. *Self-exciting network constrained point process modelling for crime prediction*

IV Mobility (15:15-16:15, Room 25-26)

CHAIR: Dashun Wang

15:15 Anastasios Noulas, Blake Shaw, Renaud Lambiotte and Cecilia Mascolo. *Topological properties and temporal dynamics of place networks in urban environments*
15:30 Sang Hoon Lee, Robyn Ffrancon, Daniel M. Abrams, Beom Jun Kim and Mason A. Porter. *Matchmaker, matchmaker, make me a match: migration of populations via marriages in the past*
15:45 José J. Ramasco, Maxime Lenormand, Bruno Gonçalves and Antonia Tugores. *Measuring global and regional influence of cites using geolocated tweets*
16:00 Andrea Cuttone, Sune Lehmann and Jakob Eg Larsen. *Analyzing human mobility at multiple spatio-temporal scales*

Coffee Break (16:15-16:45)

16:45 Parallel Sessions II

I Networks (16:45-18:45, Hall A)

CHAIR: Mark Lutter

16:45 David Hachen, Omar Lizardo, Michael Penta, Brandon Sepulvado and Matthew Chandler. *Social tie formation, development and persistence: insights from the analysis of changes in the social networks of a college student cohort*
17:00 Fragkiskos Malliaros and Michalis Vazirgiannis. *Disengagement social contagion: assessing network vulnerability under node departures*
17:15 Antonia Godoy, Roger Guimera and Marta Sales- Pardo. *Long-term evolution of email communication networks*
17:30 Hyejin Youn, Daniel Kim, José Lobo and Deborah Strumsky. *Understanding technology pathway from U.S. patents*
17:45 Els Heinsalu, Marco Patriarca, Andrzej Pękalski and Janusz Szwabiński. *Cooking recipes as an instance of cultural competition and spreading*
18.00 Matteo Magnani and Luca Rossi. *Local simplification of multiplex networks*
18:15 Marija Mitrovic Dankulov and Bosiljka Tadic. *The dynamics of collective knowledge building via questions and answers*
18:30 Polina Rozenshtein, Nikolaj Tatti and Aristides Gionis. *Discovering dynamic communities in interaction networks*

II Online Social Media (16:45-18:30, Hall B)

CHAIR: Aristides Gionis

16:45 Farshad Kooti, Gabriel Magno and Ingmar Weber. *The social nameletter effect on online social networks*

17:00 Maria Giatsoglou, Despoina Chatzakou, Neil Shah, Alex Beutel, Christos Faloutsos and Athena Vakali. *Spotting fake retweeting activity in Twitter*
17:15 Ian Wood, Johan Bollen and Luis Rocha. *Eigenday Twitter analysis.*
17:30 Carlos Castillo, Gianmarco De Francisci Morales, Marcelo Mendoza and Nasir Khan. *Automatic analysis of television news: media, people, framing and bias*
17:45 Mariano Beguerisse Diaz, Guillermo Garduno, Sophia N. Yaliraki and Mauricio Barahona. *Beyond metadata: using content to reveal the evolution of narratives in social media*
18:00 Alex Peysakhovich and Sean Taylor. *Forecasting Cultural Trends on Social Media Using the Crowd.*
18:15 Cristobal Garcia, Denis Parra and Peter Gloor. *What can Twitter tell us about leadership in networked social movements: predicting the future success of the 2011-13 Chilean student movement's leaders*

III Games and Economic Behavior (16:45-18:30, Room 22-24)

CHAIR: Andrea Rapisarda

16:45 Simone Righi and Károly Takács. *Emotional strategies as catalysts forcooperation in signed networks*
17:00 Niels Buus Lassen, René Madsen, Abid Hussain and Ravi K. Vatrapu. *Predictive analytics with big social data*
17:15 Greg Morrison, Orion Penner, Roberto Catini, Massimo Riccaboni and Fabio Pammolli. *The local structure of worldwide innovation hubs*
17:30 Ioannis Zisis, The Anh Han, Sibilla di Guida, Georg Kirchsteiger and Tom Lenaerts. *Disentangling the evolution of fairness and strategic considerations through a modified dictator game*
17:45 Marco Smolla, Tucker Gilman, Tobias Galla and Susanne Shultz. *Adding resource competition makes social learning models more* elegant
18:00 Seth Frey and Robert W. Sumner. *Scaling of governance styles in designer societies*

18:15 Matteo Chinazzi, Stefano Pegoraro and Giorgio Fagiolo. *Defuse the bomb: rewiring interbank networks*

IV Communication (16:45-18:45, Veranda)

CHAIR: Kimmo Kaski

16:45 Guy Zyskind, Bruno Lepri, Alex Pentland and Erez Shmueli. *On the complementary roles of face-to-face and mediated social interactions*
17:00 Mikko Kivela and Mason Porter. *Estimating inter-event time distributions from finite observation periods in communication networks*
17:15 Hang-Hyun Jo, Jari Saramäki, Robin Dunbar and Kimmo Kaski. *Spatial patterns of close relationships across the lifespan*
17:30 Kyriaki Kalimeri, Ailbhe Finnerty and Fabio Pianesi. *Ingredients of great teams: happiness and productivity in organisations*
17:45 Eduardo López, Jari Saramäki, Elizabeth Leicht, Robin Dunbar, Sam Roberts and Felix Reed-Tsochas. *Persistence of social signatures in human communication*
18:00 Yannick Leo, Eric Fleury, Carlos Sarraute and Márton Karsai. *Socioeconomic correlations in social communication networks*
18:15 Nitesh Chawla, Jie Tang and Yuxiao Dong. *Inferring social status and rich club effects in enterprise communication networks*
18:30 Talayeh Aledavood, Robin Dunbar, Eduardo López, Esteban Moro, Sam Roberts, Felix Reed-Tsochas and Jari Saramäki. *Persistent daily patterns in mobile telephone communication*

V Success (16:45-18:45, Room 25-26)

CHAIR: Santo Fortunato

16:45 Alexander Petersen. *The apostle effect: quantifying the impact of* super ties in scientific careers

Program Thursday, June 11

17:00 Roberta Sinatra, Dashun Wang, Pierre Deville, Chaoming Song and Albert-László Barabási. *Quantifying patterns of scientific excellence*
17:15 *Giulio Cimini, Andrea Gabrielli and Francesco Sylos-Labini. The scientific competitiveness of nations*
17:30 Gergely Palla, Gergely Tibély, Enys Mones, Péter Pollner and Tamás-Vicsek. *Hierarchical networks of scientific journals*
17:45 Floriana Gargiulo and Timoteo Carletti. *The classical origin of modern science*
18:00 Michael Szell, Roberta Sinatra and Albrt-László Barabási. *Understanding effort and success in teams*
18:15 Dashun Wang, Chaoming Song and Albert-László Barabási. *Understanding success in science and technology*
18:30 Stefano Balietti, Robert Goldstone and Dirk Helbing. *Competition promotes diversity and innovation, but undermines fair peer review*

Break (18:45-19:00)

Closing Remarks (19:00-19:15, Hall A)

Posters 1

Posters 1 on Monday afternoon, June 8
(15:30-17:00, Restaurant)

1. CSC - IT Center for Science (Seija Sirkiä, Aleksi Kallio, Heta Koski, Pekka Lehtovuori). *CSC - Public Finnish infrastructure for data science*
2. Aamena Alshamsi, Fabio Pianesi, Bruno Lepri and Iyad Rahwan. *Social Diversity and Dynamic Psychological States*
3. Adrian Bruhin, Lorenz Goette, Simon Haenni and Lingqing Jiang. *Prosocial Motivation Spillovers in Networks with Strong and Weak Ties: A Study in Blood Donation*
4. Adrián Carro, Raul Toral and Maxi San Miguel. *Coupled dynamics of node and link states: A model for language competition*
5. Adriano Galati, Maria Olivares and Stefan Mangold. *Mobile Empowerment with Delay Tolerant Networks for Socio-Economic Development in South Africa*
6. Alexander J. Gross, Dhiraj Murthy and Lav R. Varshney. *Pace of Life in Cities and the Emergence of Town Tweeters*
7. AllisonChaney, Mike Gartrell and Jake Hofman. *A Large-scale Exploration of Group Viewing Patterns*
8. Anamaria Berea, William Rand and Roland Rust. *The Rise and Fall of Fads and Fashion*
9. Andrey Bogomolov, Bruno Lepri, Jacopo Staiano, Nuria Oliver, Fabio Pianesi and Alex Pentland. *Predicting Crime Hotspots Using Aggregated and Anonymized Data on People Dynamics*
10. Biagio Aragona. *Beyond analytics: what's (really) new of big data from the methodological perspective of a social researcher.*
11. Cheryl Abundo, Stephen Lansing, Elsa Guillot, Murray Cox and Sean Downey. *Languages association with maternal genetic lineages persists from the late Pleistocene*
12. Dario Zappalà, Alessandro Pluchino and Andrea Rapisarda. *Selective altruism in collective games*
13. Didem Gundogdu, Ozlem Durmaz Incel, Albert Salah and Bruno Lepri. *Social event detaction in aggegater mobile phone data using Markov modulated poisson provess*
14. Dion O'Neale. *Clustering of Technical Capabilities within Regions*
15. Eric Malmi, Arno Solin and Aristides Gionis. *Reconstructing and Analyzing Family Trees: Towards Longitudinal Computational Social Science*
16. Fahad Alhasoun and Marta Gonzalez. *Do Socially Connected People Move Similarly?*
17. Giulio Cimini, Tiziano Squartini, Andrea Gabrielli and Diego Garlaschelli.

The dynamics of collective knowledge building via questions and answers

Marija Mitrović Dankulov
Scientific Computing Laboratory, Institute of Physics Belgrade,
University of Belgrade, Pregrevica 118, 11080 Belgrade, Serbia

Bosiljka Tadić
Department of Theoretical Physics, Institute Jožef Stefan,
P.O. Box 3000 SI-1001 Ljubljana, Slovenia

marija.mitrovic@ipb.ac.rs

Collective knowledge building is a socio-cultural process which takes place trough self-organized dynamics of interactions among individuals [1]. In recent years, quantitative study of different collective social phenomena has been enabled by vast amount of empirical data in online communication systems such as Blogs [2], Digg [3], online social networks [4, 5, 6], online chats [8] and online games [7, 9]. Question and answers (Q&A) sites form excellent repositories of collective knowledge and provide a proper environment where dynamics of collective knowledge building can be studied. On these sites, interactions among users are conveyed by means of asking and answering or commenting questions. This kind of problem-solving collaborative dynamics gives rise to new social phenomena, for example, formation of cross-topic or cross-disciplinary groups of participants, popularity of particular problems, subjects, authors or their solutions.

We analyse the empirical data from Mathematics Q&A site of StackExchange network. The large dataset used for the analysis contains all user-contributed content on this site for the period of four years. We focus on quantitative analysis of collective phenomena arising in the exchange of cognitive contents that can be identified in the empirical data. We combine diverse methodologies that are illustrated by the results in Fig. 1.

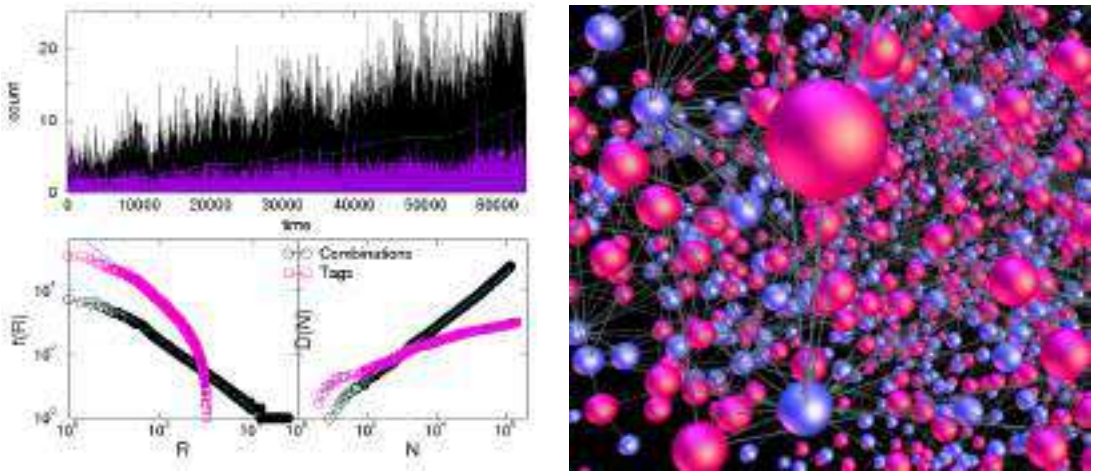


Figure 1: An example of time series with a specified knowledge contents and the number of users, exhibiting an increasing trend (top left); two measures of cooperation and innovation (bottom left) and a part of the network of connection between users and questions (right).

In particular, in our analysis, we map the data onto suitable *bipartite networks* of users and questions; using the appropriate methods of complex networks theory we analyse these bipartite graphs and their projection. Specifically, using the spectral analysis method for community detection [10], we identify user communities and examine dynamics of their formation in relation with tags (categories) of asked questions and answers. We consider *time series* of the number of events (questions, answers, comments) per time unit as well as the series of selected events that contain a particular knowledge or tag. As the Fig. 1 shows, these time series typically exhibit an increasing trend with a characteristic long cycle. Using the proper methods [4], we remove trends in these time series and examine the nature of fluctuations, clustering of events and temporal correlations by detrended time series analysis. Furthermore, we estimate two measures of *innovation and cooperation* that, according to ref. [11], can be described by the appearance of power laws in the related Zipf's and Heap law. In the present data, we demonstrate the occurrence of such functional relationships in the frequencies of each tag but also in tags combinations that develop in the sequence of events.

To further understand the dynamics of knowledge exchange from the microscopic to the global level, we introduced a model of interacting agents and performed simulations for varying parameters. The simulated results confirm the occurrence of collective knowledge as observed in the empirical data.

References

[1] J.I.M. Carpendale and U. Müller, editors, *Social Interactions and the Development of Knowledge*. Lawrence Erlbaum Associates, Inc. Mahwan, New Jersey,**2013**.

[2] M. Mitrović, G. Paltoglou, B. Tadić, Networks and emotion-driven user communities at popular blogs, *Eur. Phys. J. B* **2010**, *77*, 597609.

[3] M. Mitrović, G. Paltoglou, B. Tadić, Quantitative analysis of bloggers collective behavior powered by emotions. *J. Stat. Mech. Theor. Exp.* **2011**, *2011*, P02005.

[4] M. Šuvakov, M. Mitrović, V. Gligorijević, B. Tadić, How the online social networks are used: Dialogues-based structure of MySpace, *J. R. Soc. Inter.* **2012**, *10*, 20120819.

[5] P. De Meo, E. Ferrara, G. Fiumara, A. Provetti, On Facebook, most ties are weak *Communications of the ACM* **2014**, *57*, 78-84.

[6] S. González-Bailón, J. Borge-Holthoefer, A. Rivero, Y. Moreno, The dynamics of protest recruitment through an online network, *Sci. Rep.* **2011**, *1*, 197.

[7] M. Szell, S. Thurner, Measuring social dynamics in a massive multiplayer online game, *Soc. Networks* **2010**, *32*, 313329.

[8] V. Gligorijević, M. Skowron, B. Tadić, Structure and stability of online chat networks built on emotion-carrying links, *Physica A* **2013**, *392*, 538543.

[9] M. Szell, R. Lambiotte, S. Thurner, Multirelational organization of large-scale social networks, *Proc. Natl. Acad. Sci. USA* **2010**, *107*, 1363613641.

[10] M. Mitrović, B. Tadić, Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities, *Phys. Rev. E* **2009**, *80*, 026123.

[11] F. Tria, V. Loreto, V.D.P. Servedio, S.H. Strogatz, The dynamics of correlated novelties, *Sci. Rep.* **2014**, *4*, 5890.

FIELDS

Home
About Us
People & Contacts
Programs & Activities
Thematic & Focus Programs
General Scientific Activity
Commercial & Industrial Programs
Centre for Mathematical Medicine
Mathematics Education
Outreach
Calendar of Events
Mailing List
Fields*Live*
Video Archive
Proposals & Applications
Honours, Prizes & Fellowships
Publications
Resources and Facilities

April 12, 2017

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

June 17-19, 2015 *at the* Fields Institute, Stewart Library

2015 Summer Solstice 7th International Conference on Discrete Models of Complex Systems

Conference Chair

Prof. Anna T. Lawniczak, University of Guelph, Canada

Conference Organizing Committee

Monica Cojocaru, University of Guelph, Canada
Bruno N. Di Stefano, Nuptek Systems Ltd, Canada
Henryk Fuks, Brock University, Canada
Danuta Makowiec, Gdansk University, Poland

Video Archive of Talks **Contributed Slides**

Conference Overview	**Previous Editions of Summer Solstice**	**Scientific Program Committee**	**Invited Speakers**	**Program**
Post Conference Proceedings	**Important Dates**	**Registration information**	**Invited Speaker Abstracts**	**Contributed Abstracts**
Information For Presenters	**Participants List**	**Conference Venue & Directions**	**Hotels & Visitors Information**	**Financial Support**

Conference Overview

Coauthors: Dario Zappalà and Alessandro Pluchino

We study the emergence of altruistic behaviour in collective games. In particular, we take into account Toral's version of collective Parrondo's paradoxical games, in which the redistribution of capital between agents, who can play different strategies, creates a positive trend of increasing capital. In this framework, we insert two categories of players, altruistic and selfish ones, and see how they interact and how their capital evolves. More in detail, we analyse the positive effects of altruistic behaviour, but we also point out how selfish players take advantage of that situation. The general result is that altruistic behaviour is discouraged, because selfish players get richer while altruistic ones get poorer. We also consider a smarter way of being altruistic, based on reputation, called "selective altruism", which prevents selfish players from taking advantage of altruistic ones. In this new situation it is altruism, and not selfishness, to be encouraged and stabilized. Finally, we introduce a mechanism of imitation between players and study how it influences the composition of the population of both altruistic and selfish players as a function of time for different initial conditions and network topologies adopted.

Modeling The Dynamics of Knowledge Creation in Online Communities

Bosiljka Tadic
Department of Theoretical Physics, Jozef Stefan Institute, Ljubljana, Slovenia
Coauthors: Marija Mitrovic Dankulov, Scientific Computing Laboratory, Institute of Physics Belgrade, Serbia

Exchange of knowledge contents supported by online communication systems can lead

to the emergent behavior, where interacting communities share an accumulated knowledge. In this process, both the knowledge of individual actors as well as the patterns of their conduct over time play an important role. In Ref. [1], we have analyzed the emergence of collective knowledge in a modern Questions & Answers (Q& A) system Mathematics, where cognitive elements of each artifact are marked by several tags within the standard mathematical classification scheme. Here, we present a microscopicmodel of knowledge sharing, which correctly accounts for the detailed description of the process from the elementary to the global scale. Based on our experience in modeling online social communications [2, 3, 4], the knowledge-based interactions in this model are closely related to the dynamics observed in the empirical system [1]. Specifically, the interaction rules match the studied Q& A system, and the profiles of the actors in the model are statistically similar to the profiles of users in Mathematics. In addition, we assume that at least minimal matching occurs between the cognitive contents of the answered question and the actor's expertise, which can be expressed by a combination of tags.

Following the sequence of events in the simulations, we observe the growth of a bipartite graph of actors and their artifacts, and the appearance of network communities. The structure of communities reveals the principal actors and the involved cognitive elements. We sample time series related to the integral activity in the network as well as the activity that is strictly involving a particular cognitive element or specified combinations of such elements. By analysis of these time series, we determine various indicators of the collective behavior and the related knowledge contents.

Furthermore, we investigate how these indicators depend on the actors' profiles and the range of their expertise.
This work was supported by the program P1-0044 of the Research Agency of the Republic of Slovenia and the European Community's COST action TD1210 Analyzing the dynamics of information and knowledge landscapes-KNOWeSCAPE.
References
[1] M. Mitrovic Dankulov, R.Melnik, B. Tadic, Dynamics of meaningful social interactions and emergence of collective knowledge, under review.
[2] M. Mitrovic, B. Tadic, Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling, Physica A 391, 5264-5278 (2012).
[3] B. Tadic and M. Šuvakov, Can Human-Like Bots Control Collective Mood: Agent-Based Simulations of Online Chats J. Stat. Mech. Theory and Experiment, P10014 (2013).
[4] B. Tadic, Modeling behavior of Web users as agents with reason and sentiment, in "Advances in Computational Modeling Research: Theory, Developments and Applications", edited by A.B. Kora, Novapublishing, N.Y., 2013, ISBN: 978-1-62618-065-9

Speculative Constraints on Oligopoly
Henry Thille
University of Guelph, Department of Economics & Finance, Canada
Coauthors: Sebastien Mitraille

The activity of speculators in markets for storable commodities is viewed with suspicion by many people, however this activity plays a relatively benign role in most economic models that allow for it. Most of the research on the economics of speculation

an agent-based model, we introduce heterogeneity through the model parameters, which are then considered individual attributes and include influence rates, effectiveness of advertising, price sensitivity, and speed of adoption. We also examine the effects of various network topologies by organizing individuals into lattice and preferential attachment networks. From there, we add two extra components to the adoption mechanism by introducing a social influence factor by which an agent can be influenced by the adoption patterns of their neighbourhood, as well as a green factor, which assumes an environmental product or policy being adopted and is the likelihood that an individual will adopt based on environmental reasons alone. We found that advertising had the most effect on the length of time it took for the model to reach its equilibrium. Influence rates and the speed of adoption rate had a small effect on how fast awareness and adoption took place within the first 100 time steps. The price sensitivity was the only parameter to affect the resulting equilibrium point. Finally, we found that various networks had less of an influence than expected on the resulting equilibrium, and overall the results from the agent-based simulations were very close to those obtained through differential equations.

Back to top

Program

Wednesday: June 17, 2015

8:45-9:15 Registration, Breakfast

Session Chair of Invited Talks: **Bosiljka Tadic**

9:15-9:30 Opening Remarks

9:30-10:00 - Paola Flocchini
University of Ottawa, Ottawa, ON, Canada
Time-Varying Graphs and Dynamic Networks

10:00-10:30 - Babak Farzad
Brock University, St. Catharines, ON Canada
Strategic models for network formation

10:30-11:00 Break

Session Chair of Invited Talks: **Paola Flocchini**

11:00-11:30 - Raul J Mondragon
Queen Mary University of London, UK
Network ensembles based on the Maximal Entropy and the Rich-Club

11:30-12:00 - Bosiljka Tadic
Dept. of Theoretical Physics, Jozef Stefan Institute, Ljubljana, Slovenia
Modeling The Dynamics of Knowledge Creation in Online Communities

12:00-1:30 Lunch

Session Chair of Contributed Talks: **Raul J Mondragon**

1:30-1:50 - Monica Cojocaru
University of Guelph, Guelph, ON, Canada
Modelling awareness and adoption: aggregate behaviour versus agent-based interactions with network effects

1:50-2:10 - Sergey Melnik
MACSI, Dept. of Math. & Stat., University of Limerick, Ireland
Analytical approach to calculating shortest path lengths on networks

2:10-2:30 - Pierre-Andre Noel
University of California, Davis, CA, USA
Wide motifs: a new tool for when cycles matter

2:30-2:50 - Victor Veitch
Dept. of Statistical Sciences, University of Toronto, Toronto, ON, Canada
A General Framework for Sparse Random Graphs

2:50-3:30 Break

Session Chair of Invited Talks: **Pietro Lio'**

3:30-4:00 - Stanislaw Drozdz
Polish Academy of Sciences and Cracow University of Technology, Poland
Complexity characteristics of world literature

4:00-4:30 - José Fernando Ferreira Mendes
University of Aveiro, Portugal
Structural properties of complex networks

4:30-6:00 Reception

Thursday: June 18, 2015

8:45-9:00 Breakfast

Session Chair of Invited Talks: ***Andrea Rapisarda***

9:00-9:30 - Dawn Cassandra Parker
University of Waterloo, School of Planning and WICI, Waterloo, ON, Canada
Integration of agent-based modeling, network science, analytical models, and inductive meta-modelling for applied analysis of complex systems phenomena

9:30-10:00 - Jaroslaw Was
AGH University of Science and Technology, Cracow, Poland
Agent-based approach and Cellular Automata: a promising perspective in crowd dynamics modeling?

10:00-10:30 Break

Session Chair of Contributed Talks: **Rolf Hoffmann**

10:30-10:50 - Jakub Porzycki, Robert Lubas
AGH University of Science and Technology in Kraków, Poland
Dynamic data driven simulation as a basis of crowd management supporting system

10:50-11:10 - Robert Lubas, Jakub Porzycki
AGH University of Science and

Technology in Kraków, Poland
Supporting the facility design process in terms of optimal pedestrian flow

11:10-11:30 - Jalal Arabneydi
McGill University, Montreal, QC, Canada
Mean-Field Teams

11:30-11:50 - Bruno Di Stefano
Nuptek Systems Ltd., Toronto, ON, Canada
Biomimicry Based Decision Of Computationally Minimal Cognitive Agents

11:50-12:10 - Anna T. Lawniczak
University of Guelph, Guelph, ON, Canada
Performance Of Simple Cognitive Agents Using Observational Learning

12:10-1:30 Lunch

Session Chair of Invited Talks: **Franco Bagnoli**

1:30-2:00 - Andreas Deutsch
Centre for Information Services and High Performance Computing, Technische Universität Dresden, Germany
Cellular automaton models for collective cell behaviour

2:00-2:30 - Pietro Lio'
Computer Laboratory, University of Cambridge, UK
Cancer cell dynamics and liquid biopsies

2:30-3:00 - Edward W. Thommes
Dept. of Mathematics & Statistics, University of Guelph, Canada

A stochastic compartmental model of herd immunity within semi-closed environments

3:00-3:30 Break

Session Chair of Contributed Talks:
Andreas Deutsch

3:30-3:50 - Mark Crowley
Electrical and Computer Engineering, University of Waterloo, ON, Canada
Answering Simple Questions About Spatially Spreading Systems

3:50-4:10 - Susan Khor
Memorial University of Newfoundland, St John's NL, Canada
On the short-cut network within protein residue networks

4:10-4:30 - Hermann J Eberl
University of Guelph, Guelph, ON, Canada
Microscopic rules of multi-species interaction lead to a class of macroscopic cross-diffusion problems

4:30-4:50 - Michael Andrews
University of Guelph, Guelph, ON, Canada
Concurrent Behaviourally Motivated Non-Pharmaceutical Intervention and Vaccination Decisions in an Agent Based Model of Seasonal Influenza

6:30 Banquet Dinner at **Il Posto**, 148 Yorkville Ave, Toronto, ON M5R 1C2 **Website:** http://www.ilposto.ca/
Directions: http://www.ilposto.ca

/Contact/Location/tabid/106091
/Default.aspx

Friday: June 19, 2015

8:45-9:00 Breakfast

Session Chair of Contributed Talks: **Daniel Ashlock**

9:00-9:30 - Franco Bagnoli
Dept. of Physics and Astronomy and CSDC, University of Florence, Italy
Phase transitions in parallel Ising model

9:30-9:50 - Witold Bolt
Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland
Identifying Continuous Cellular Automata in partial observation setting using differential evolution

9:50-10:10 - Raúl Rechtman
Instituto de Energías Renovables, Universidad Nacional Autónoma de México
Anomalous diffusion of deterministic walks on a square lattice

11:00-10:30 Break

Session Chair of Invited Talks: **Monica Cojocaru**

10:30-11:00 - Andrea Rapisarda
Dipartimento di Fisica e Astronomia and Infn - Università di Catania, Italy
Selective altruism in collective

games

11:00-11:30 - Henry Thille
University of Guelph, Department of Economics & Finance, Canada
Speculative Constraints on Oligopoly

11:30-12:00 - Jan Baetens
KERMIT, Dept. of Math. Modelling, Stat. & Bioinformatics, Gent, Belgium
Behavioral analysis and identification of discrete models

12:00 - 1:30 Lunch

Session Chair of Invited Talks: **Jan Baetens**

1:30-2:00 - Rolf Hoffmann
Technical University of Darmstadt, Germany
Cellular automata agents can form a pattern more effectively by using signs

2:00-2:30 - Daniel Ashlock
University of Guelph, Guelph, ON, Canada
Evolving Transparently Scalable Level Maps with Cellular Automata

9:00-9:20 - Henryk Fuks
Brock University, St. Catharines, ON, Canada
Hyperbolic and degenerate hyperbolic behaviour in cellular automata

3:00-3:30 Break

Session Chair of Contributed Talks: **Henryk Fuks**

3:30-3:50- Dimitri Papadimitriou
Bell Labs, Antwerpen, Belgium
Modeling Complex Networks by (Dynamic) Markov Random Fields

3:50-4:10 - Stephen Trothen
University of Waterloo, Waterloo, ON, Canada
Cellular Automat(ic) Design and Finite Nature: Theorizing Human-Computer Interaction Using Discreet Mathematical Models

4:10-4:30 Closing Remarks

4:30 End of the Conference

Back to top

Information For Presenters

Information for presenters can be found here.

Back to top

Contributed Slides

The following presentations were received from registered participants but not delivered at the conference due to last-minute cancellations:

- **Sipang Dirakkhunakon** (Sripatum University,

XIX Symposium on Condensed Matter Physics SFKM 2015

Book of Abstracts

7 – 11 September 2015
Belgrade, Serbia

Conference attendance patterns

Jelena Smiljanić[a] and Marija Mitrović Dankulov[a]

[a]*Scientific Computing Laboratory, Institute of Physics Belgrade, University of Belgrade*

Abstract. Patterns of scientific publications, collaborations and citations in scientific journals have been extensively studied in last decade while conference attendance patterns remain mostly unexplored from the perspective of statistical physics. In this work we study the conference attendance of scientists on the six conference series in different fields of science. The gathered data contain detailed information about papers/abstracts presented at the conferences for the period of 30 years, which enables us to analyse the total number of participations, number of successive participations and the time lag between two consecutive conference participations for each author. All these properties exhibit broad distributions with exponential cut-off. In order to further investigate the mechanism behind conference attendance patterns, we propose a stochastic model based on two key ingredients, 2-bin generalized Polya process and random termination time of a career. We demonstrate that this model, with positive feedback, can successively reproduce the empirically observed results.

KNOWeSCAPE

Analyzing the dynamics of information and knowledge landscapes

cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

Program

Monday, November 24, 2014

08:45 – 09:15	**Conference Registration**
09:15 – 09:30	**Welcome and Introduction** **Prof. Panagiotis Tzionas**, Vice – President of ATEITh **Prof. Christos Sarmaniotis**, Director of School of Business Administration and Econonics, ATEITh **Dr. Panayiota Polydoratou**, Department of Library Science and Information Systems, ATEITh **Dr Andrea Scharnhorst**, Royal Netherlands Academy of Arts and Sciences – Chair of KNOWeSCAPE

Search...

Categories

- Knowledge maps
- STSM
- Working groups
  - WG 1: Phenomenology of knowledge

	Chairperson: Almila Akdag Salah
09:30 – 10:30	**Keynote talk: Bettina Speckmann** – Geovisualization for library metadata – [Slides]
10:30 – 11:00	**Coffee break**
	Morning session I. Chairperson: Andreas Rauber
11:00 – 12:30	Petra Ahrweiler – Research Policy Modelling – [Slides] Gali Halevi and Judit Bar-Ilan -Downloads vs. Citations Explored – [Slides] Antonis Sidiropoulos, Dimitrios Katsaros and Yannis Manolopoulos -Identification of Influential Scientists versus Mass Producers by the Perfectionism Index – [Slides]
12:30 – 14:00	**Lunch**
	Chairperson: Renaud Lambiotte
14:00 – 15:00	**Keynote talk: Vincent Traag –** Discovering communities in networks – [Slides]
	Afternoon session I. Chairperson: Santo Fortunato
15:00 – 16:00	Frank Schweitzer – How we collaborate – A complex network approach – [Slides] ***Ignite talks:*** 1. Nikolay Vitanov and Zlatinka Dimitrova – Visualization of composition and characteristics of scientific elites at an Institute of Bulgarian Academy of Sciences – [Slides] 2. Yuriy Holovatch – Interevent time distributions of human multi-level activity in a virtual world – [Slides] 3. Bosiljka Tadic and Marija Mitrovic -The Death of Expertise & Problems in Quantifying Collective Knowledge in Online Social – [Slides] 4. Veslava Osinska and Grzegorz Osinsk – Graphical Analysis of Scientific Collaboration Variations Interactions – [Slides]
16:00 – 16:30	**Coffee break**
	Afternoon session II. Chairperson: Serge Galam
16:30 – 17:30	Luigi Assom – Overview and Summarize knowledge areas: a dual approach in knowledge mapping and discovery – [Slides]
17:30 – 18:00	**Steering Group (SG) meeting**

spaces

- WG 2: Theory of knowledge spaces
- WG 3: Visual analytics of knowledge spaces – knowledge maps
- WG 4: Data curation and navigation based on knowledge maps

Dinner at Restaurant: Yenti (http://www.yenti.gr) at 20:00. Meeting place in front of the conference's venue at 19.40.

Address: I. Papareska 13 Eptapyrgio Thessaloniki.

Dinner includes retsina, local beer, red and white wine, refreshments. Dessert is also included.

Tuesday, November 25, 2014

09:00 – 09:30	**Conference Registration**
09:30 – 10:30	**Chairperson: Peter Richmond** **Keynote talk: Wim Hugo** – Beyond Meta-Data: Nano-Publications Recording Scientific Endeavour – [Slides]
10:30 – 11:00	**Coffee break**
11:00 – 12:30	**Morning session II. Chairperson: Judit Bar-Ilan** Santo Fortunato – Reputation and Impact in Academic Careers – [Slides] Marija Mitrovic and Bosiljka Tadic – Quantitative Study of Innovation and Knowledge Building in Questions&Answers System with Math Tags – [Slides] Pietro Della Briotta Parolo, Santo Fortunato, Raj Kumar Pan, Kimmo Kaski, Rumi Ghosh and Bernardo Huberman – On the decay of attention in science – [Slides]
12:30 – 14:00	**Lunch**
14:00 – 15:00	**Chairperson: Almila Akdag Salah** **Keynote talk: Zoe Borovsky** – UCLA Libraries and the Research Commons – [Slides]
15:00 – 16:00	**Afternoon session III. Chairperson: Ingo Scholz** Serge Galam and Alexandre Delanoë – Searching for intended biases behind a "knowledge" map: a case study – [Slides]

KnoweScape - Bibliography of members
Owned by Andrea Scharnhorst

This is the bibliography of publications of the member of the COST Action TD1210.

Recent papers in this group

There are no papers in this group yet.

View group

KnoweScape - Bibliography of members is a group in Social Sciences on Mendeley.

Ignite talks:

1. Kareen Omar, Oleg Yordanov and Peter Richmond – A Statistical Study of the Wells Wilder Index – [Slides]
2. Senka Anastasova -E-Knowledge and Rhizomes (Critical Discourses) – [Slides]
3. Jahna Otterbacher -Describing him, describing her: Linguistic biases in crowdsourced metadata for images of people – [Slides]
4. Beatrice Bouchou Markhoff and Cheikh Niang – Semantic Web Mediation – [Slides]

16:00 – 16:30 **Coffee break**

16:30 – 17:30 **Management Committee (MC) meeting**

*

Boukia Boukia (http://www.mpoukiampoukia.com/).

Address: Oplopoiou & Katouni 1 Ladadika Thessaloniki.

Dinner includes a selection of appetizers and salads. It also includes a variety of shared meals served with local wine, beer or refreshments. Excellent dessert is served at the end of our meal!

Wednesday, November 26, 2014

12:30 – 14:00Lunch

09:00 – 09:30 **Conference Registration**

Chairperson: Peter Richmond

09:30 – 10:30 **Keynote talk: Elena Dimitrova – Canalyzation in mathematical modeling – [Slides]**

10:30 – 11:00 **Coffee break**

Morning session III. Chairperson: Frank Schweitze

11:00 – 12:30	Rob Koopman, Shenghui Wang and Andrea Scharnhorst -Ariadne's thread – interactive navigation in a world of networked information – [Slides] Ingo Scholtes -Aggregate Networks Considered Harmful: Towards Higher-Order Models of Time-Varying Networks – [Slides] Peter Mutschke and Karima Haddou Ou Moussa -Using Heat Maps for Search Term Recommendations – [Slides] Klaus Jacob, Anna-Lena Guske and Thomas Hüsing – Data modelling and visualization in German environmental policies – [Slides]
	Chairperson: Panayiota Polydoratou
14:00 – 15:00	Oleg Yordanov – Effects of the Discussion Groups Si1zes on the Dynamics of Public Opinion – [Slides] Henk Van Den Berg, Christine Borgman and Andrea Scharnhorst – Baseline statistics and visuals – opening the black box of users of a Trusted Digital Repository – [Slides] Andrea Scharnhorst, Albert Meroño-Peñuela and Christophe Guéret – Baseline Statistics of Linked Statistical Data – [Slides]
15:00 – 15:15	**Closing remarks**

Europe

COST is supported by the EU Framework Programme Horizon 2020

Tags

agent-based models algorithms altmetrics Annual Conference Bibliometrics Big Data clustering comparison Complexity Complex Networks

Resources

Meta

Log in
Entries RSS
Comments RSS
WordPress.org

(for ignite talk)

The Death of Expertise & Problems in Quantifying Collective Knowledge in Online Social Interactions

Bosiljka Tadic* and Marija Mitrovic
Department of Theoretical Physics, Jozef Stefan Institute, Ljubljana, Slovenia
Scientific Computing Laboratory, Institute of Physics, Belgrade, Serbia

Nature of collective states that can arise in online human dynamics depend on many factors from various features of each actor in the process to global system level and the control parameters. States emerging via spreading dynamics, for instance, disease, opinion, or emotions diffusion, are different from the situation where an organized effort to reach a common goal occurs leading to a social value. Building collective knowledge as a social value is coordinated process in which different members are involved in order to create or improve opportunities for the community to deal with the existing problems, i.e., by offering explanations, interpretations, analysis, theories, tools etc. Modern IT enable social interactions along which individual knowledge can be shared with others. Knowledge building implies the occurrence of a collective phenomenon involving innovations and a systematic progression of ideas. However, where such things come from? Knowledge building systems aim at transforming experience of individuals into explicit (codified) knowledge from which then others can learn. The expertise and tacit knowledge (practical intelligence, know-how, innovativeness, intuition) that reside in minds of the individuals is voluntarily shared with other actors via self-organized processes of externalization and communication. Consequently, a collective state appears in which each actor and its contribution have their respective places in the accumulated knowledge. The explicit knowledge can be recognized in view of the appropriate language (or coding) used in this process.

In this ignite talk, by using a prototypal example from online Q&A systems** and theoretical concepts, we would like to point out several specificities in the knowledge building processes.These particular features, ranging from cognitive elements of each actor to their social behavior and patterns of networking, help characterize the development of collective knowledge. At the same time, they provide potentials to differentiate the emergence of knowledge from other collective dynamic phenomena such as shared norms or opinion, in which expertise of individuals is not apparent.

*presenting author
**M.Mitrovic and B. Tadic: *Quantitative study of innovation and knowledge building in Q&A systems with math tagging,* abstract submitted to this conference

(for 20 min talk)

Quantitative Study of Innovation and Knowledge Building in Questions&Answers System with Math Tags

Marija Mitrovic* and Bosiljka Tadic
Scientific Computing Laboratory, Institute of Physics, Belgrade, Serbia
Department of Theoretical Physics, Jozef Stefan Institute, Ljubljana, Slovenia

Online communication systems with Questions and Answers (Q&A) and specified subject tagging provide suitable data for analysis of knowledge building processes. On these sites, interactions among users are conveyed by means of asking and answering or commenting questions. This type of interaction leads to new social phenomena, such as the formation of cross-topic or cross-disciplinary communities, popularity of particular problems, subjects (tags), authors or their solutions. Applying the theory of complex networks and methods of statistical physics, we study the emergence of collective knowledge in Q&A communities.

In this talk, we analyze empirical data from Mathematics, platform for scientific collaboration in the field of mathematics, which is a part of StackExchange: expert answers to your questions network. The dataset contains high temporal resolution of user's actions (asking, answering or commenting) on different questions, as well as tags of these questions. We map this data onto a suitable bipartite network and analyze its structure using the appropriate methods of complex networks. The temporal dimension of the data allows us to study user's activity and expertise patterns by analyzing corresponding time series.

With regard of general problems in quantifying the appearance of collective knowledge, pointed in the ignite talk** , we focus on the the dynamical measures of innovation and to relative importance of particular items (tags) in the process. Specifically, we analyze the structure of connections and examine the formation of communities of participants in relation with tags of posted questions. We show that the present tags and their combinations exhibit broad distributions, compatible with Zipf's and Heap's laws, a clear indicator of cooperative dynamics in the system. The entropy of these two type of elements shows substantial clustering among the events related to a particular topic.

*presenting author
**B. Tadic and M. Mitrovic: T*he death of expertise & problems in quantifying collective knowledge in online social interactions,* abstract submitted for igniting talk on this conference

SUMMERSOLSTICE 2014
International Conference On Discrete Models Of Complex Systems

22-25 June 2014, Institute Jozef Stefan, Ljubljana, Slovenia

B O O K

O F

A B S T R A C T S

Edited by Bosiljka Tadić & Milovan Šuvakov

©Department of Theoretical Physics, Jozef Stefan Institute, Slovenia; June 2014

Bstar© 2013 ☆ **Follow post-conference updates at the Web page: http://www-f1.ijs.si/~tadic/Workshops/Solstice14/**

Contents

Discrete Models of Complex Systems
S O L S T I C E 2014,
Jožef Stefan Institute
Ljubljana, Slovenia, June 22-25, 2014

Agent-Based Modeling and Social Structure in Bloggers' Dynamics

Marija Mitrović[1,2], Bosiljka Tadić[3]

[1] *Department of Biomedical Engineering and Computational Science, School of Science Aalto University, Espoo, Finland, marija.mitrovic@aalto.com*
[2] *Scientific Computing Laboratory, Institute of Physics, Belgrade, Serbia*
[3] *Department of Theoretical Physics, Jožef Stefan Institute, Ljubljana, Slovenia*

Emotions play pivotal role in both offline and online social dynamics. Although, collective emotional behavior of users is frequently observed in online societies [1, 2, 3], the role of emotions in online communication and their connection with emerging social structure of online communities are still not thoroughly understood.

In this paper, we study mechanisms underlying the collective emotional behavior of Bloggers by using the agent-based modeling and the parameters inferred from the empirical data of popular BBC Blogs and discussion-driven Diggs [4]. Agents, whose individual emotional states are described by their valence and arousal, are embedded in bipartite network of users and posts. This bipartite network evolves trough the addition of agents and their actions on posts; agents transfer their current emotional state to post by posting an emotional comment. Emotional state of agent fluctuates in time as a direct consequence of indirect interaction with other agents trough its ego-network of posts. We show that the indirect communication of the emotion in the model rules, combined with the action-delay time and the circadian rhythm extracted from the empirical data, can explain the genesis of emotional bursts by users on popular Blogs and similar Web portals.

Our results show that the emotion-driven dynamics leads to long-range correlations and emergent networks with community structure, also observed in analysis of empirical data [1, 2]. We show that the size and activity of evolving agents communities correlates with the expression of negative emotions (critique), see Figure 1.

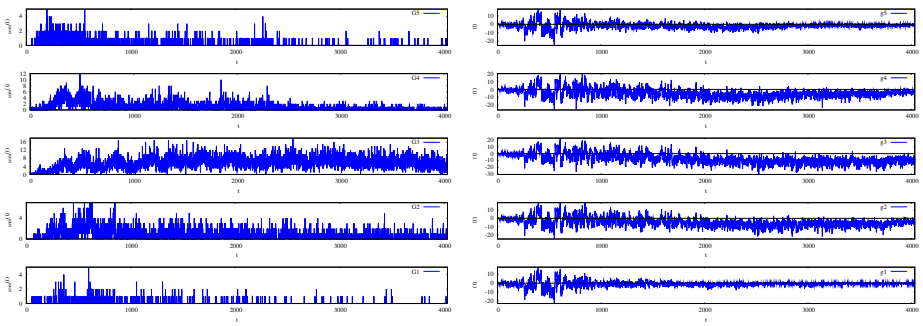


Figure 1: Time series of the number of comments posted by the agents belonging to a given community (left), and the charge of these comments (right).

This work was supported by program P1-0044 of the Research Agency of the Republic of Slovenia and the European Community's program FP7-ICT-2008-3 under the grant no.231323.

References

[1] Marija Mitrović, Georgios Paltoglou, Bosiljka Tadić, *Networks and emotion-driven user communities at popular blogs*, Eur. Phys. J. B **77**, pp. 597-609 (2010).
[2] Marija Mitrović, Georgios Paltoglou, Bosiljka Tadić, *Quantitative analysis of bloggers' collective behavior powered by emotions*, Journal of Statistical Mechanics: Theory and Experiment JSTAT P02005 (2011).
[3] M. Šuvakov, M. Mitrović, V. Gligorijević and B. Tadić, *How the online social networks are used: Dialogs-based structure of MySpace*, J. Royal Society Interface **10**, 79, 20120819 pp. 1-12 (2012).
[4] Marija Mitrović and Bosiljka Tadić, *Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling*, Physica A **391** (21), pp. 5264-5278 (2012).

5^{th} International Conference on Information Technologies and Information Society ITIS 2013

Proceedings

Edited by Zoran Levnajić
Faculty of Information Studies in Novo mesto

Dolenjske toplice, Slovenia, 7-9 November 2013
http://itis2013.fis.unm.si/

CONFERENCE PROGRAM

Thursday, 7 November
08:30 – 09:00 Registration
09:00 – 09:20 Opening
Simulating Social Networks
09:20 – 10:00 Santo Fortunato: Community Detection in Networks
10:00 – 10:20 Mario Karlovčec: Web application for generating sub networks of Slovenian research collaboration
10:20 – 10:40 Borut Lužar: Interdisciplinarity of Slovenian research
10:40 – 11:00 *Sweet coffee break*
Modeling and Simulating Social Processes
11:00 – 11:40 Matteo Marsili: On sampling and modeling complex systems
11:40 – 12:00 Marija Mitrović: Universality in voting behavior
12:00 – 12:20 Zoran Levnajić: Looking for stable pluralism
12:20 – 12:40 Alenka Pandiloska Jurak: Network analysis of the competence centres in Slovenia
12:40 – 13:00 *free*
13:00 – 14:00 *Light lunch*
Data Technologies and Simulations
14:00 – 14:40 Peter Richtárik: Big Data Convex Optimization: Why Parallelizing Like Crazy and Being Lazy Can be Good
14:40 – 15:00 Jože Bučar: Case Study Web Clipping – The Preliminary Work
15:00 – 15:20 Darko Zelenika: Automatic invoice capture in small and medium-sized Slovenian enterprises – project overview
15:20 – 15:40 Tomislav Fotak: Handwritten Signature Authentication Using Statistical Measures of Basic On-line Signature Characteristics
15:40 – 16:00 *Salty coffee break*
Information Society and Simulations
16:00 – 16:20 Andrej Dobrovoljc: An approach to identify organizational security vulnerabilities
16:20 – 16:40 Igor Jugo: A proposal for a web based educational data mining and visualization system
16:40 – 17:00 Gregor Polančič: Extending BPMN 2.0 Conversation diagrams for modeling complex communication
17:00 – 17:20 Martin Ravnikar: The Way to Efficient Management of Complex Engineering Design
17:20 – 17:40 Tatjana Welzer: Cultural Components in Information Society
17:40 – 18:00 *free*
18:00 – *Wine tasting and various*

Friday, 8 November

Simulating Cultural Processes

09:00 – 09:40 Matjaž Perc: Culturomics of physics: Which words and phrases defined the biggest breakthroughs of the 20th century?

09:40 – 10:00 Domagoj Margan: Preliminary Report on the Structure of Croatian Linguistic Co-occurrence Networks

10:00 – 10:20 Kristina Ban: Initial Comparison of Linguistic Networks Measures for Parallel Texts

10:20 – 10:40 Lucia Načinović Prskalo: An Overview of Prosodic Modelling for Croatian Speech Synthesis

10:40 – 11:00 *Sweet coffee break*

Increasing Well-being through IT and Simulations

11:00 – 11:40 Tijana Milenković: What can complex networks tell us about human aging?

11:40 – 12:00 Matjaž Tome: IT solutions to assist diabetic patients and medical staff

12:00 – 12:20 David Fabjan: Long-term-care and intelligent IT in a changing demographic landscape

12:20 – 12:40 Blaž Rodič: Perception of privacy in social networks among youth

12:40 – 13:00 Andrej Kovačič: New Ways to Manage Communication with Customers on the Internet

13:00 – 14:00 *Light lunch*

Simulating Business Processes

14:00 – 14:20 Jernej Agrež: TAD methodology for process pattern assessment in weakly defined organizational formations

14:20 – 14:40 Grzegorz Majewski: Inclusion of tacit knowledge in the simulation of business processes

14:40 – 14:00 Željko Dobrović: Connection between Process Model and Data Model: Metamodelling Approach

15:00 – 15:20 Renato Barišić: Use of printed textbooks and digital content in secondary school education

15:20 – 15:40 Boštjan Delak: How to identify knowledge and evaluate knowledge management in organization

15:40 – 16:00 *free*

16:00 – *Excursion to historic "Žužemberk castle" and conference dinner in traditional "Zupančič" restaurant*

Universality in voting behavior

Marija Mitrovicć, Arnab Chatterjee, Santo Fortunato
Department of Biomedical Engineering and Computational Science
Aalto University School of Science
P.O. Box 12200, FI-00076, Finland
{marija.mitrovic@aalto.fi}

Abstract. *Statistical physics provides a conceptual framework for studying large-scale social phenomena. Elections represent a valuable area for quantitative study of human behavior. In proportional elections with open lists, the performance of the candidates within the same party list, has the same distribution regardless of the country and the year of the election. The study of election data sets from different countries with open-list proportional systems confirms that nations with similar election rules belong to the same universality class. Deviations from this trend are associated with differences in the election rules. Our analysis reveals that voting process is characterized with dynamics that does not depend on the historical, political or economical context where the voters operate.*

KNOWeSCAPE

Analyzing the dynamics of information and knowledge landscapes

Program

Monday, November 18, 2013

09:00 – 09:10 Santo Fortunato – **Welcome**

09:10 – 09:20 Andrea Scharnhorst – **Introduction**

*

Morning session I. Chairman: Santo Fortunato

*

09:20 – 09:50 **Keynote talk: Ginestra Bianconi** – Multiplex PageRank [Slides]

09:50 – 10:10 Martin Rosvall – Mapping scientific communication from researcher pathways [Slides]

*

10:30 – 11:10 **Coffee break**

*

Morning session II. Chairman: Bosiljka Tadić

*

11:10 – 11:30 Sébastien Heymann – Navigating graphs of millions of nodes and relationships like a breeze with Linkurious [Slides]

11:30 – 12:10 **Ignite talks – Session I**

1. Senka Anastasova – Live stream transferring knowledge [Slides]
2. Nikolay Vitanov – Discussion on the geometric measures of the size of the scientific elites [Slides]
3. Sándor Soós- Topic Trends on the Hungarian Internet – News and Academic Web Presence [Slides]
4. Bruno Gonçalves – Characterizing scientific production and consumption in Physics [Slides]
5. Vladimir Lekovski – Knowledge, digital architecture, controlled patterns [Slides]
6. Franc Zakrajšek – eCultureMap – Link to Europeana knowledge [Slides]
7. Eero Hyvönen – Linked Data Finland: Towards a 7-star Service Platform for Linked Datasets [Slides]

12:10-12:15 Wilko van Hoek – Demonstrating a Framework for KOS-based Recommendations Systems [Slides]

*

12:15 – 14:00 **Lunch**

*

Afternoon session I. Chairman: Janusz Hołyst

*

14:00 – 14:20 Gergely Palla – Extracting tag hierarchies [Slides]

14:20 – 14:40 Bosiljka Tadić – Network Multiplexity in Online Chats [Slides]

14:40 – 15:00 Márton Karsai – Time-varying networks and the weakness of strong ties [Slides]

15:00 – 15:20 Raj Kumar Pan – On the Predictability of Future Impact in Science [Slides]

*

15:20 – 16:00 **Coffee break**

*

Afternoon session II. Chairman: Peter Richmond

*

16:00 – 16:20 Serge Galam – The honest dishonest scientist and the unfortunate bias of citation dynamics

16:20 – 16:40 Yurij Holovatch – A case study of a scientific collaboration: Chornobyl-related research as a collective enterprise [Slides]

16:40 – 17:00 Ana Baptista – KNOWeSCAPE related research at the SEMAG research group [Slides]

*

17:00 – 18:00 **Management committee (MC) meeting**

Tuesday, November 19, 2013

Morning session I. Chairman: Andrea Scharnhorst

*

09:00 – 09:30 **Keynote talk: Martin White** – Collaborative working and decision making – the role of search [Slides]

09:30 – 09:50 Massimo Riccaboni – Global and domestic centrality in patent citation networks [Slides]

09:50 – 10:10 Veslava Osinska – Knowledge Horizon Dynamics in Applied Computer Science [Slides]

10:10 – 10:30 Sándor Soós – Science maps as ways to indicate knowledge transfer [Slides]

*

10:30 – 11:10 **Coffee break**

*

Morning session II. Chairman: Martin Rosvall

*

11:10 – 11:30 Oleg Yordanov – Chaos at fifty: a statistical perspective [Slides]

11:30 – 12:15 **Ignite talks – Session II**

1. Claudio Laferla – Malta, Libraries & Myself [Slides]
2. Wilko van Hoek – Developing a Visual Interactive Search History Exploration System [Slides]
3. Sanja Šćepanović – Information diffusion on Twitter based on user homophily and semantic relatedness [Slides]
4. Bosiljka Tadić – Can we talk? What Bots can do in our cyberspace and does it matter? [Slides]
5. Panos Argyrakis – Analysis of the network of collaboration between European Institutions [Slides]
6. Milan Rajković – Knowledge, complexity, self-organization and social systems [Slides]
7. Marija Mitrović – Universal Pattern of Voting Behavior [Slides]

*

12:15 – 14:00 **Lunch**

*

Afternoon session I. Chairman: János Kertész

*

14:00 – 14:20 Janusz Hołyst – Information slows down hierarchy growth [Slides]

14:20 – 14:40 Renaud Lambiotte – Late for Good [Slides]

14:40 – 15:00 Shenghui Wang – Hierarchically structure Cultural Heritage objects [Slides]

*

15:00 – 15:40 **Coffee break**

*

15:40 – 16:40 **Working Groups Discussion**

Wednesday, November 20, 2013

*

Morning session I. Chairman: Aida Slavic

*

09:00 – 09:30 **Keynote talk: Cassidy Sugimoto** – Gender equity and human development in science [Slides]

09:30 – 09:50 Peter Richmond – Detection of collusion and cheating in multiple choice examinations [Slides]

09:50 – 10:10 Andrea Scharnhorst – Cross domain knowledge discovery, complex system theory and semantic web [Slides]

10:10 – 10:30 Ingo Scholtes – The Social Dimension of Collaborative Information Spaces [Slides]

*

10:30 – 11:10 **Coffee break**

*

Morning session II. Chairman: Maxi San Miguel

*

11:10 – 11:30 János Kertész – The most controversial topics in Wikipedia: A multilingual and geographical analysis [Slides]

11:30 – 11:50 Michael Golosovsky – Citation dynamics of scientific papers and Bass model for information diffusion [Slides]

11:50 – 12:10 Andias Wira-Alam – Connecting Knowledge for A New Kind of Search [Slides]

*

12:10 – 12:20 **Closing Remarks**

*

Universal Pattern of Voting Behavior

MARIJA MITROVIĆ
Department of Biomedical Engineering and Computational Science, Aalto University School of Science, Finland, marija.mitrovic@aalto.fi
ARNAB CHATTERJEE *Department of Biomedical Engineering and Computational Science, Aalto University School of Science, Finland*
SANTO FORTUNATO *Department of Biomedical Engineering and Computational Science, Aalto University School of Science, Finland*

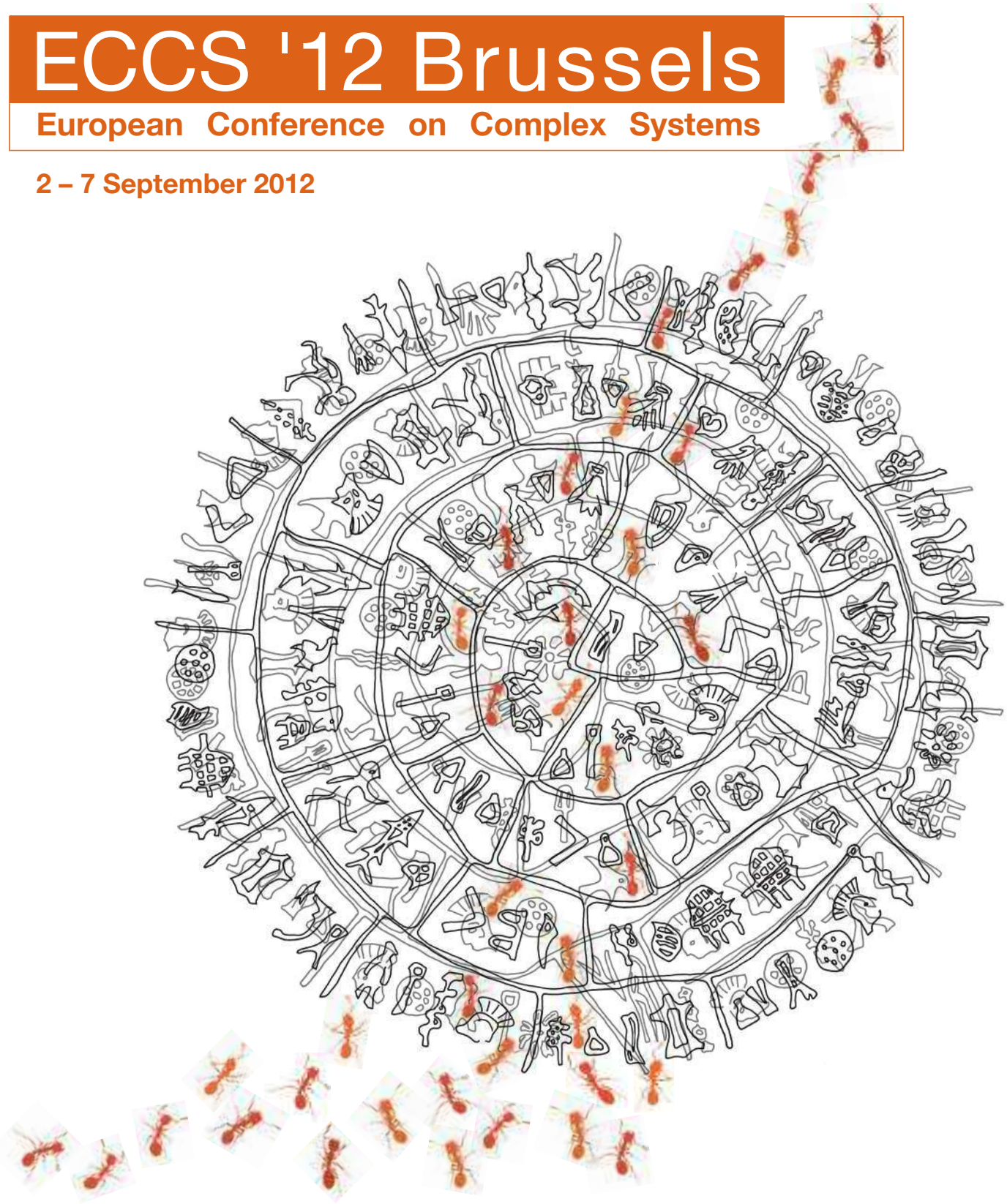
Keywords: *election statistics; voting behavior; universality;*

Statistical physics provides a conceptual framework for studying large-scale social phenomena. Elections represent a valuable area for quantitative study of human behavior. We analyze the candidate performance In proportional elections with nominative votes within the party list. The study of election data sets from different countries with open- list proportional systems confirms that nations with similar election rules belong to the same universality class. Deviations from this trend are associated with differences in the election rules. Our analysis reveals that voting process is characterized with dynamics that does not depend on the historical, political or economical context where the voters operate.

ECCS '12 Brussels

European Conference on Complex Systems

2 – 7 September 2012



Book of Abstracts

Editors: Thomas Gilbert and Gregoire Nicolis

Book of Abstracts

ECCS'12 Brussels

European Conference on Complex Systems

www.eccs2012.eu

Brussels, 2-7 September 2012

Editors: Thomas Gilbert and Gregoire Nicolis

Nonlinear Dynamics and Statistical Physics

Chair: Claude Baesens

14:00–14:25 Contributed talk

Complex Systems With Trivial Dynamics

Ricardo Lopez-Ruiz

Abstract: In this communication, complex systems with a near trivial dynamics are addressed. First, under the hypothesis of equiprobability in the asymptotic equilibrium, we show that the (hyper) planar geometry of an N-dimensional multi-agent economic system implies the exponential (Boltzmann-Gibss) wealth distribution and the spherical geometry of a gas of particles implies the Gaussian (Maxwellian) distribution of velocities. Moreover, two non-linear models will be proposed to explain the decay of these statistical systems from an out-of-equilibrium situation toward their asymptotic equilibrium states.

14:25–14:50 Contributed talk

Flow Curvature Method Applied To Canard Existence In $\mathbb{R}^3$

Jean-Marc Ginoux and Jaume Llibre

Abstract: The aim of this work is to show that the condition for the generic existence of peculiar solutions, called canards, of three-dimensional slow-fast dynamical systems can be found according to the Flow Curvature Method. This result will be then highlighted with two classical examples.

14:50–15:15 Contributed talk

Extensive Clustering In Populations Of Degrade-And-Fire Oscillators

Bastien Fernandez and Lev Tsimring

Abstract: In this talk, I will present rigorous results on a piecewise affine model of coupled oscillators inspired by recent experiments on synchronization in colonies of bacteria-embedded genetic circuits. The model phenomenology is similar to that of systems of pulse-coupled oscillators with global inhibitory interaction. In a previous work, we proved the existence of a phase transition with the coupling strength, from a regime of arbitrary asymptotic cluster sizes, to a strongly clustered regime where every asymptotic distribution contains an extensive cluster. We also analytically computed the maximal number of asymptotic clusters and showed that, while it decreases in the strong coupling regime, this number stays extensive for every coupling parameter. Here, I will report on manifestations of this phase transition in the dynamics of uniformly drawn random initial conditions. The most significant feature is that, when the coupling strength is sufficiently large, with positive probability, the number of clusters remains intensive in the thermodynamic limit.

15:15–15:30 Contributed talk

Diffusion Of Particle Velocity In The Dense Wave Spectrum Limit

Yves Elskens, Nicolas Besse and Dominique Escande

Abstract: The validity of quasilinear (QL) theory describing the paradigmatic weak warm beam instability has been controversial for decades. We prove that the velocities of N passive particles in a single one-dimensional wave field converge in law to a diffusion process, in the limit of a dense wave spectrum with independent amplitudes and random phases, when the power spectrum is uniform. The proof provides a full probabilistic foundation to the QL approximation and to the ensemble picture for a single realization of the stochastic environment. For the self-consistent Vlasov-wave dynamics, we prove analytically and numerically that in the strongly nonlinear regime where the particle distribution function has formed a plateau and wave intensities have settled, QL predictions remain valid thanks to the absence of mode coupling, and particles evolve in a quenched random wave field. We confirm numerically that the wave power spectrum at saturation agrees statistically with the prediction from the conservation law resulting from the locality in velocity of the wave-particle interaction. We also observe a nonlinear, non-QL stage in the development of the instability, before its saturation.

15:30–15:45 Contributed talk

Out-of-equilibrium Dynamics In Systems With Long-Range Interactions: Characterizing Quasi-Stationary States

Pierre de Buyl

Abstract: Systems with long-range interactions (LRI) display unusual thermodynamical and dynamical properties that stem from the non-additive character of the interaction potential. We focus in this presentation on the lack of relaxation to thermal equilibrium when a LRI system is started out-of-equilibrium. This phenomenon leaves the system in a stage of the dynamics that is called a quasi-stationary state (QSS). Several attempts have been made at predicting the QSS reached by the dynamics and at characterizing the resulting transition between magnetized and non-magnetized states. We review in this work recent theories and interpretations about the QSS. Several theories exist but none of them has provided yet a full account of the dynamics found in numerical simulations.

15:45–16:00 Contributed talk

Ergodic And Nonergodic Behavior In Systems With Long-Range Interactions

Tarcisio Rocha Filho, Annibal Figueiredo, Zolacir Olliveira, Cinthia Silvestre and Marco Amato

Abstract: Physical systems with long-range interaction has been widely studied with results reported in the literature, and properties that are markedly different from short range interacting systems, e.g, non-Gaussian quasi-stationary states, negative heat-capacity, temperature jumps at critical points, anomalous diffusion and ensemble inequivalence. Examples include self-gravitating systems, vortices in two-dimensional fluids, dipolar interactions, fractures in solids and models as the Hamiltonian Mean Field (HMF), free electron laser and the plasma single wave models. The nature of the non-Gaussian quasi-stationary states arising from the dynamics can be interpreted as stable stationary states of the mean-field Vlasov equation which describes the system in the limit $N \to \infty$, where N is the number of particles. For longer times the Vlasov equation must be replaced by a proper kinetic equation. The initial stage of time evolution is called violent relaxation and corresponds to a very rapid evolution from the initial condition into a quasi-stationary state. Since the original proposal by Lynden-Bell, many unsuccessful attempts were made to formulate the statistical mechanics of violent relaxation. The Lynden-Bell (LB) theory is

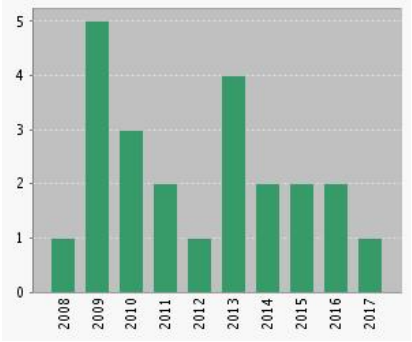
Citation Report: 23

(from Web of Science Core Collection)

You searched for: **AUTHOR IDENTIFIERS:** (I-3007-2012) ...More

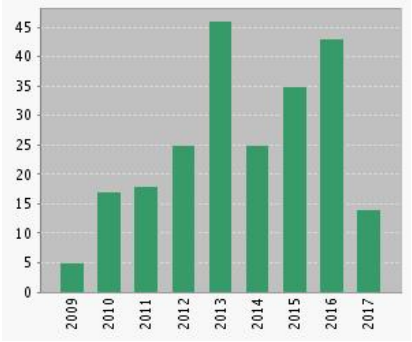
This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year



The latest 20 years are displayed.

Citations in Each Year



The latest 20 years are displayed.

Results found:	**23**
Sum of the Times Cited [?] :	**228**
Sum of Times Cited without self-citations [?] :	**186**
Citing Articles [?] :	**164**
Citing Articles without self-citations [?] :	**151**
Average Citations per Item [?] :	**9.91**
h-index [?] :	**9**

Sort by: **Times Cited -- highest to lowest** | Page 1 of 3

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between **1996** and **2017** Go

	2013	2014	2015	2016	2017	Total	Average Citations per Year
	46	**25**	**35**	**43**	**14**	**228**	**25.33**
1. **Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities** By: Mitrovic, Marija; Tadic, Bosiljka PHYSICAL REVIEW E Volume: 80 Issue: 2 Article Number: 026123 Published: AUG 2009	5	7	5	7	2	39	4.33
2. **Networks and emotion-driven user communities at popular blogs** By: Mitrovic, M.; Paltoglou, G.; Tadic, B. EUROPEAN PHYSICAL JOURNAL B Volume: 77 Issue: 4 Pages: 597-609 Published: OCT 2010	11	4	1	0	1	32	4.00
3. **Bloggers behavior and emergent communities in Blog space** By: Mitrovic, M.; Tadic, B. EUROPEAN PHYSICAL JOURNAL B Volume: 73 Issue: 2 Pages: 293-301 Published: JAN 2010	6	2	1	1	1	26	3.25
4. **Universality in voting behavior: an empirical analysis** By: Chatterjee, Arnab; Mitrovic, Marija; Fortunato, Santo SCIENTIFIC REPORTS Volume: 3 Article Number: 1049 Published: JAN 10 2013	7	2	4	5	1	19	3.80

5.	**Quantitative analysis of bloggers' collective behavior powered by emotions** By: Mitrovic, Marija; Paltoglou, Georgios; Tadic, Bosiljka JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P02005 Published: FEB 2011	7	0	4	0	2	18	2.57
6.	**Inferring human mobility using communication patterns** By: Palchykov, Vasyl; Mitrovic, Marija; Jo, Hang-Hyun; et al. SCIENTIFIC REPORTS Volume: 4 Article Number: 6174 Published: AUG 22 2014	0	1	7	6	3	17	4.25
7.	**Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks** By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al. ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013	0	4	4	3	0	11	2.20
8.	**How the online social networks are used: dialogues-based structure of MySpace** By: Suvakov, Milovan; Mitrovic, Marija; Gligorijevic, Vladimir; et al. JOURNAL OF THE ROYAL SOCIETY INTERFACE Volume: 10 Issue: 79 Article Number: 20120819 Published: FEB 6 2013	2	1	5	3	0	11	2.20
9.	**Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling** By: Mitrovic, Marija; Tadic, Bosiljka PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 391 Issue: 21 Pages: 5264-5278 Published: NOV 1 2012	4	3	1	2	0	10	1.67
10.	**Jamming and correlation patterns in traffic of information on sparse modular networks** By: Tadic, B.; Mitrovic, M. EUROPEAN PHYSICAL JOURNAL B Volume: 71 Issue: 4 Pages: 631-640 Published: OCT 2009	2	0	0	1	0	8	0.89

Select Page | Save to Text File

Sort by: **Times Cited -- highest to lowest** Page 1 of 3

23 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

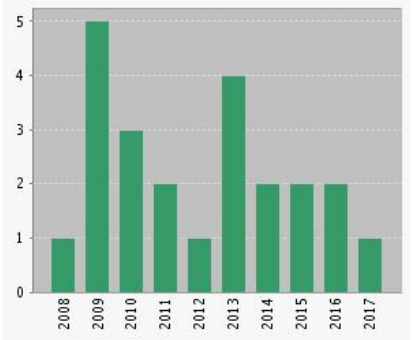
Citation Report: 23

(from Web of Science Core Collection)

You searched for: **AUTHOR IDENTIFIERS:** (I-3007-2012) ...More

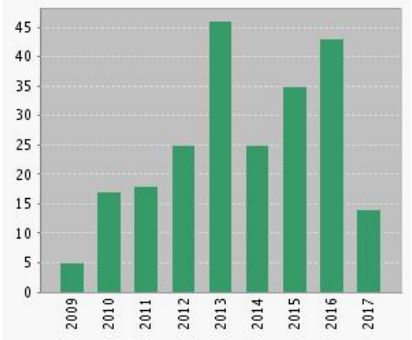
This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year



The latest 20 years are displayed.

Citations in Each Year



The latest 20 years are displayed.

Results found:	23
Sum of the Times Cited [?] :	228
Sum of Times Cited without self-citations [?] :	186
Citing Articles [?] :	164
Citing Articles without self-citations [?] :	151
Average Citations per Item [?] :	9.91
h-index [?] :	9

Sort by: Times Cited -- highest to lowest

Page 2 of 3

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between 1996 and 2017 Go

	2013	2014	2015	2016	2017	Total	Average Citations per Year
	46	25	35	43	14	228	25.33
11. **Search of weighted subgraphs on complex networks with maximum likelihood methods** By: Mitrovic, Marija; Tadic, Bosiljka Edited by: Bubak, M; VanAlbada, GD; Dongarra, J; et al. Conference: 8th International Conference on Computational Science Location: Cracow, POLAND Date: JUN 23-25, 2008 Sponsor(s): Hewlett Packard Co; Intel Corp; Qumak Sekom AM & IBM; Microsoft Corp; ATM SA; Elsevier; Springer COMPUTATIONAL SCIENCE - ICCS 2008, PT 2 Book Series: Lecture Notes in Computer Science Volume: 5102 Pages: 551-+ Published: 2008	0	0	0	0	0	8	0.80
12. **Quantifying randomness in real networks** By: Orsini, Chiara; Dankulov, Marija M.; Colomer-de-Simon, Pol; et al. NATURE COMMUNICATIONS Volume: 6 Article Number: 8627 Published: OCT 2015	0	0	0	5	2	7	2.33
13. **The dynamics of meaningful social interactions and the emergence of collective knowledge** By: Dankulov, Marija Mitrovic; Melnik, Roderick; Tadic, Bosiljka SCIENTIFIC REPORTS Volume: 5 Article Number: 12197 Published: JUL 15 2015	0	0	0	5	1	6	2.00

14.	**Correlation Patterns in Gene Expressions along the Cell Cycle of Yeast** By: Zivkovic, Jelena; Mitrovic, Marija; Tadic, Bosiljka Edited by: Fortunato, S; Mangioni, G; Menezes, R; et al. Conference: International Workshop on Complex Networks (CompleNet 2009) Location: Univ Catania, Catania, ITALY Date: MAY 26-27, 2009 COMPLEX NETWORKS Book Series: Studies in Computational Intelligence Volume: 207 Pages: 23-+ Published: 2009	0	0	0	1	0	5	0.56
15.	**Statistical Analysis of Emotions and Opinions at Digg Website** By: Pohorecki, P.; Sienkiewicz, J.; Mitrovic, M.; et al. Conference: 6th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Univ Gdansk, Fac Math, Phys & Informat, Gdansk, POLAND Date: APR 19-21, 2012 ACTA PHYSICA POLONICA A Volume: 123 Issue: 3 Pages: 604-614 Published: MAR 2013	1	1	2	0	0	4	0.80
16.	**Growing time lag threatens Nobels** By: Fortunato, Santo NATURE Volume: 508 Issue: 7495 Pages: 186-186 Published: APR 10 2014	0	0	1	2	0	3	0.75
17.	**CYBEREMOTIONS - Collective Emotions in Cyberspace** By: Ahn, Junghyun; Borowiec, Anna; Buckley, Kevan; et al. Edited by: Giacobino, E; Pfeifer, R Conference: 2nd European Future Technologies Conference and Exhibition (FET) Location: Budapest, HUNGARY Date: MAY 04-06, 2011 Sponsor(s): European Commiss Future & Emerging Technol (FET); European Res Consortium Informat & Mathemat (ERCIM); Hungarian Acad Sci; Hungarian Presidency European Un PROCEEDINGS OF THE 2ND EUROPEAN FUTURE TECHNOLOGIES CONFERENCE AND EXHIBITION 2011 (FET 11) Book Series: Procedia Computer Science Volume: 7 Pages: 221-+ Published: 2011	0	0	0	2	0	2	0.29
18.	**A Theoretical Model for the Associative Nature of Conference Participation** By: Smiljanic, Jelena; Chatterjee, Arnab; Kauppinen, Tomi; et al. PLOS ONE Volume: 11 Issue: 2 Article Number: e0148528 Published: FEB 9 2016	0	0	0	0	1	1	0.50
19.	**Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions** By: Zivkovic, J.; Mitrovic, M.; Janssen, L.; et al. EPL Volume: 89 Issue: 6 Article Number: 68004 Published: MAR 2010	1	0	0	0	0	1	0.12
20.	**Associative nature of event participation dynamics: A network theory approach** By: Smiljanic, Jelena; Dankulov, Marija Mitrovic PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565 Published: FEB 6 2017	0	0	0	0	0	0	0.00

Select Page | Save to Text File

Sort by: Times Cited -- highest to lowest

Page 2 of 3

23 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

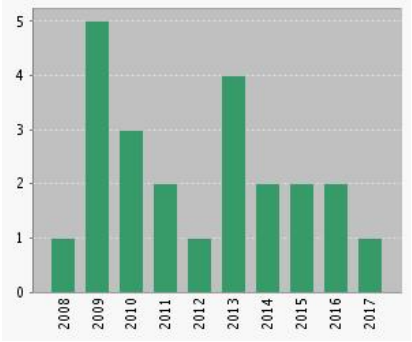
Citation Report: 23

(from Web of Science Core Collection)

You searched for: **AUTHOR IDENTIFIERS:** (I-3007-2012) ...More

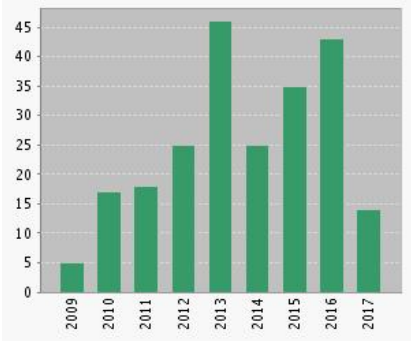
This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year



The latest 20 years are displayed.

Citations in Each Year



The latest 20 years are displayed.

Results found:	**23**
Sum of the Times Cited [?] :	**228**
Sum of Times Cited without self-citations [?] :	**186**
Citing Articles [?] :	**164**
Citing Articles without self-citations [?] :	**151**
Average Citations per Item [?] :	**9.91**
h-index [?] :	**9**

Sort by: **Times Cited -- highest to lowest**

Page 3 of 3

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between **1996** and **2017** Go

	2013	2014	2015	2016	2017	Total	Average Citations per Year
	46	**25**	**35**	**43**	**14**	**228**	**25.33**
21. **Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers** By: Andjelkovic, Miroslav; Tadic, Bosiljka; Dankulov, Marija Mitrovic; et al. PLOS ONE Volume: 11 Issue: 5 Article Number: e0154655 Published: MAY 12 2016	0	0	0	0	0	0	0.00
22. **MIXING PATTERNS AND COMMUNITIES ON BIPARTITE GRAPHS ON WEB-BASED SOCIAL INTERACTIONS** By: Grujic, Jelena; Mitrovic, Marija; Tadic, Bosiljka Book Group Author(s): IEEE Conference: 16th International Conference on Digital Signal Processing Location: Santorini, GREECE Date: JUL 05-07, 2009 2009 16TH INTERNATIONAL CONFERENCE ON DIGITAL SIGNAL PROCESSING, VOLS 1 AND 2 Pages: 259-+ Published: 2009	0	0	0	0	0	0	0.00
23. **CONGESTION PATTERNS OF TRAFFIC STUDIED ON NANJING CITY DUAL GRAPH** By: Zeng, Hong-Li; Guo, Yan-Dong; Zhu, Chen-Ping; et al. Book Group Author(s): IEEE Conference: 16th International Conference on Digital Signal Processing Location: Santorini, GREECE Date: JUL 05-07, 2009 2009 16TH INTERNATIONAL CONFERENCE ON DIGITAL SIGNAL	0	0	0	0	0	0	0.00

PROCESSING, VOLS 1 AND 2 Pages: 982-+ Published: 2009

Select Page | Save to Text File

Sort by: Times Cited -- highest to lowest

Page 3 of 3

23 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 1
(from Web of Science Core Collection)

For: A Theoretical Model for the Associative Nature of Conference Participation ...Less

Times Cited Counts

1 in All Databases
1 in Web of Science Core Collection
1 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

MULTIDISCIPLINARY SCIENCES (1)

Refine

Document Types

ARTICLE (1)

Refine

Research Areas

Authors

Group Authors

Editors

Source Titles

Book Series Titles

Sort by: Publication Date -- newest to oldest Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Associative nature of event participation dynamics: A network theory approach**

By: Smiljanic, Jelena; Dankulov, Marija Mitrovic
PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565
Published: FEB 6 2017

Full Text from Publisher | View Abstract

Times Cited: 0
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest Page 1 of 1
Show: 10 per page

1 records matched your query of the 37,663,056 in the data limits you selected.

- Conference Titles
- Publication Years
- Organizations-Enhanced
- Funding Agencies
- Languages
- Countries/Territories
- ESI Top Papers
- Open Access

For advanced refine options, use

Analyze Results

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 7
(from Web of Science Core Collection)

For: Quantifying randomness in real networks ...More

Times Cited Counts

7 in All Databases
7 in Web of Science Core Collection
2 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- MULTIDISCIPLINARY SCIENCES (3)
- PHYSICS MULTIDISCIPLINARY (2)
- PHYSICS MATHEMATICAL (2)
- PHYSICS FLUIDS PLASMAS (1)
- MATHEMATICS APPLIED (1)

more options / values...

Refine

Document Types

- ARTICLE (7)

Refine

Research Areas

Authors

Group Authors

Editors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Lower bound of assortativity coefficient in scale-free networks**
By: Yang, Dan; Pan, Liming; Zhou, Tao
CHAOS Volume: 27 Issue: 3 Article Number: 033113 Published: MAR 2017
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **Quantification of network structural dissimilarities**
By: Schieber, Tiago A.; Carpi, Laura; Diaz-Guilera, Albert; et al.
NATURE COMMUNICATIONS Volume: 8 Article Number: 13928 Published: JAN 9 2017
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

3. **Constraints and spandrels of interareal connectomes**
By: Rubinov, Mikail
NATURE COMMUNICATIONS Volume: 7 Article Number: 13812 Published: DEC 7 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

4. **A new method based on branch length similarity (BLS) entropy to characterize time series**
By: Lee, Sang-Hee
JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 69 Issue: 8 Pages: 1362-1365 Published: OCT 2016
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

5. **BRIDES: A New Fast Algorithm and Software for Characterizing Evolving Similarity Networks Using Breakthroughs, Roadblocks, Impasses, Detours, Equals and Shortcuts**
By: Lord, Etienne; Le Cam, Margaux; Bapteste, Eric; et al.
PLOS ONE Volume: 11 Issue: 8 Article Number: e0161474 Published: AUG 31 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

6. **Clustering Implies Geometry in Networks**
By: Krioukov, Dmitri
PHYSICAL REVIEW LETTERS Volume: 116 Issue: 20 Article Number: 208302 Published: MAY 19 2016
View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

7. **Network nestedness as generalized core-periphery structures**
By: Lee, Sang Hoon
Times Cited: 1 *(from Web of Science Core Collection)*

Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

PHYSICAL REVIEW E Volume: 93 Issue: 2 Article Number: 022306 Published: FEB 19 2016

Usage Count

View Abstract

Select Page

Save to EndNote online

Add to Marked List

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Show: 10 per page

7 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 6
(from Web of Science Core Collection)

For: The dynamics of meaningful social interactions and the emergence of collective knowledge ...Less

Times Cited Counts

6 in All Databases

6 in Web of Science Core Collection

3 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- MULTIDISCIPLINARY SCIENCES (3)
- MECHANICS (2)
- PHYSICS MATHEMATICAL (1)
- COMPUTER SCIENCE SOFTWARE ENGINEERING (1)
- COMPUTER SCIENCE CYBERNETICS (1)

more options / values...

Refine

Document Types

- ARTICLE (5)
- PROCEEDINGS PAPER (1)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **Associative nature of event participation dynamics: A network theory approach**
By: Smiljanic, Jelena; Dankulov, Marija Mitrovic
PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565 Published: FEB 6 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **A Statistical Physics Characterization of the Complex Systems Dynamics: Quantifying Complexity from Spatio-Temporal Interactions**
By: Koorehdavoudi, Hana; Bogdan, Paul
SCIENTIFIC REPORTS Volume: 6 Article Number: 27602 Published: JUN 14 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

3. **Multifractal analysis of Barkhausen noise reveals the dynamic nature of criticality at hysteresis loop**
By: Tadic, Bosiljka
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: 063305 Published: JUN 2016
View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

4. **Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers**
By: Andjelkovic, Miroslav; Tadic, Bosiljka; Dankulov, Marija Mitrovic; et al.
PLOS ONE Volume: 11 Issue: 5 Article Number: e0154655 Published: MAY 12 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

5. **The influence of architecture of nanoparticle networks on collective charge transport revealed by the fractal time series and topology of phase space manifolds**
By: Tadic, Bosiljka; Andjelkovic, Miroslav; Suvakov, Milovan
JOURNAL OF COUPLED SYSTEMS AND MULTISCALE DYNAMICS Volume: 4 Issue: 1 Pages: 30-42 Published: APR 2016
View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

6. **Collaborative Solving in a Human Computing Game Using a Market, Skills and Challenges**
By: Tremblay-Savard, Olivier; Butyaev, Alexander; Waldispuhl, Jerome
Book Group Author(s): ACM
Conference: 3rd ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY) Location:
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Austin, TX Date: OCT 16-19, 2016
Sponsor(s): Assoc Comp Machinery; ACM SIGCHI
CHI PLAY 2016: PROCEEDINGS OF THE 2016 ANNUAL SYMPOSIUM ON COMPUTER-HUMAN INTERACTION IN PLAY
Pages: 130-141 Published: 2016

View Abstract

Select Page

Save to EndNote online

Add to Marked List

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Show: 10 per page

6 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 3
(from Web of Science Core Collection)

For: Growing time lag threatens Nobels ...More

Times Cited Counts

3 in All Databases
3 in Web of Science Core Collection
2 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- MEDICINE GENERAL INTERNAL (2)
- PSYCHOLOGY (1)
- NEUROSCIENCES (1)

more options / values...

Refine

Document Types

- ARTICLE (2)
- LETTER (1)

more options / values...

Refine

Research Areas

Authors

Group Authors

Editors

Source Titles

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Changes in Characteristics and Time to Recognition of Medical Scientists Awarded a Nobel Prize**
By: Redelmeier, Robert J.; Naylor, C. David
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 316 Issue: 19 Pages: 2043-2044 Published: NOV 15 2016

Times Cited: 0
(from Web of Science Core Collection)
Usage Count

2. **The Slavery of the h-index Measuring the Unmeasurable**
By: Kreiner, Grzegorz
FRONTIERS IN HUMAN NEUROSCIENCE Volume: 10 Article Number: 556 Published: NOV 2 2016
Full Text from Publisher

Times Cited: 1
(from Web of Science Core Collection)
Usage Count

3. **The Anatomy of Medical Research US and International Comparisons**
By: Moses, Hamilton, III; Matheson, David H. M.; Cairns-Smith, Sarah; et al.
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 313 Issue: 2 Pages: 174-189 Published: JAN 13 2015
View Abstract

Times Cited: 87
(from Web of Science Core Collection)
Highly Cited Paper
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Show: 10 per page

3 records matched your query of the 37,663,056 in the data limits you selected.

- Book Series Titles
- Conference Titles
- Publication Years
- Organizations-Enhanced
- Funding Agencies
- Languages
- Countries/Territories
- ESI Top Papers
- Open Access

For advanced refine options, use

Analyze Results

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 17
(from Web of Science Core Collection)

For: Inferring human mobility using communication patterns ...Less

Times Cited Counts

17 in All Databases
17 in Web of Science Core Collection
9 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- MULTIDISCIPLINARY SCIENCES (8)
- SOCIAL SCIENCES MATHEMATICAL METHODS (3)
- PHYSICS MULTIDISCIPLINARY (3)
- MATHEMATICS INTERDISCIPLINARY APPLICATIONS (3)
- ENGINEERING ELECTRICAL ELECTRONIC (1)

more options / values...

Refine

Document Types

- ARTICLE (14)
- REVIEW (2)
- PROCEEDINGS PAPER (1)

more options / values...

Refine

Research Areas

Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Big-data-driven modeling unveils country-wide drivers of endemic schistosomiasis**
By: Mari, Lorenzo; Gatto, Marino; Ciddio, Manuela; et al.
SCIENTIFIC REPORTS Volume: 7 Article Number: 489 Published: MAR 28 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **Complex systems: physics beyond physics**
By: Holovatch, Yurij; Kenna, Ralph; Thurner, Stefan
EUROPEAN JOURNAL OF PHYSICS Volume: 38 Issue: 2 Pages: 1-19 Article Number: 023002 Published: MAR 2017
View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

3. **Towards connecting people, locations and real-world events in a cellular network**
By: Trestian, R.; Shah, P.; Nguyen, H.; et al.
TELEMATICS AND INFORMATICS Volume: 34 Issue: 1 Pages: 244-271 Published: FEB 2017
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

4. **Application of gravity model on the Korean urban bus network**
By: Hong, Inho; Jung, Woo-Sung
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 462 Pages: 48-55 Published: NOV 15 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

5. **Comprehensive analysis of information dissemination in disasters**
By: Zhang, N.; Huang, H.; Su, Boni
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 462 Pages: 846-857 Published: NOV 15 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

6. **Inferring Passenger Denial Behavior of Taxi Drivers from Large-Scale Taxi Traces**
By: Zhang, Sihai; Wang, Zhiyang
PLOS ONE Volume: 11 Issue: 11 Article Number: e0165597 Published: NOV 3 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

Group Authors
Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

7. **Predicting human mobility through the assimilation of social media traces into mobility models**
By: Beiro, Mariano G.; Panisson, Andre; Tizzoni, Michele; et al.
EPJ DATA SCIENCE Volume: 5 Article Number: UNSP 30 Published: OCT 21 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

8. **Active and reactive behaviour in human mobility: the influence of attraction points on pedestrians**
By: Gutierrez-Roig, M.; Sagarra, O.; Oltra, A.; et al.
ROYAL SOCIETY OPEN SCIENCE Volume: 3 Issue: 7 Article Number: UNSP 160177 Published: JUL 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

9. **Mobile phone data highlights the role of mass gatherings in the spreading of cholera outbreaks**
By: Finger, Flavio; Genolet, Tina; Mari, Lorenzo; et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 113 Issue: 23 Pages: 6421-6426 Published: JUN 7 2016
View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

10. **A survey of results on mobile phone datasets analysis**
By: Blondel, Vincent D.; Decuyper, Adeline; Krings, Gautier
EPJ DATA SCIENCE Volume: 4 Issue: 1 Article Number: 10 Published: DEC 2015
Full Text from Publisher | View Abstract
Times Cited: 28 *(from Web of Science Core Collection)*
Highly Cited Paper
Usage Count

11. **Personalized routing for multitudes in smart cities**
By: De Domenico, Manlio; Lima, Antonio; Gonzalez, Marta C.; et al.
EPJ DATA SCIENCE Volume: 4 Issue: 1 Article Number: 1 Published: DEC 2015
Full Text from Publisher | View Abstract
Times Cited: 4 *(from Web of Science Core Collection)*
Usage Count

12. **A Generalized Radiation Model for Human Mobility: Spatial Scale, Searching Direction and Trip Constraint**
By: Kang, Chaogui; Liu, Yu; Guo, Diansheng; et al.
PLOS ONE Volume: 10 Issue: 11 Article Number: e0143500 Published: NOV 24 2015
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

13. **Relating Land Use and Human Intra-City Mobility**
By: Lee, Minjin; Holme, Petter
PLOS ONE Volume: 10 Issue: 10 Article Number: e0140152 Published: OCT 7 2015
Full Text from Publisher | View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

14. **A Theoretical Analysis of the Geography of Schistosomiasis in Burkina Faso Highlights the Roles of Human Mobility and Water Resources Development in Disease Transmission**
By: Perez-Saez, Javier; Mari, Lorenzo; Bertuzzo, Enrico; et al.
PLOS NEGLECTED TROPICAL DISEASES Volume: 9 Issue: 10 Article Number: e0004127 Published: OCT 2015
Full Text from Publisher | View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

15. **Understanding Human Mobility from Twitter**
By: Jurdak, Raja; Zhao, Kun; Liu, Jiajun; et al.
PLOS ONE Volume: 10 Issue: 7 Article Number: e0131469 Published: JUL 8 2015
Times Cited: 18 *(from Web of Science Core Collection)*

Full Text from Publisher | View Abstract

Usage Count

16. **Multi-scale Population and Mobility Estimation with Geo-tagged Tweets**

By: Liu, Jiajun; Zhao, Kun; Khan, Saeed; et al.
Book Group Author(s): IEEE
Conference: 2015 IEEE 31st International Conference on Data Engineering Workshops Location: seoul, SOUTH KOREA Date: APR 13-17, 2015
2015 13TH IEEE INTERNATIONAL CONFERENCE ON DATA ENGINEERING WORKSHOPS (ICDEW) Pages: 83-86
Published: 2015

View Abstract

Times Cited: 0
(from Web of Science Core Collection)

Usage Count

17. **Spatial patterns of close relationships across the lifespan**

By: Jo, Hang-Hyun; Saramaki, Jari; Dunbar, Robin I. M.; et al.
SCIENTIFIC REPORTS Volume: 4 Article Number: 6988
Published: NOV 11 2014

Full Text from Publisher | View Abstract

Times Cited: 7
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Show: 25 per page

17 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 19
(from Web of Science Core Collection)

For: Universality in voting behavior: an empirical analysis ...More

Times Cited Counts

19 in All Databases
19 in Web of Science Core Collection
4 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS MATHEMATICAL (7)
- PHYSICS MULTIDISCIPLINARY (6)
- PHYSICS FLUIDS PLASMAS (6)
- MULTIDISCIPLINARY SCIENCES (4)
- PHYSICS NUCLEAR (1)

more options / values...

Refine

Document Types

- ARTICLE (16)
- PROCEEDINGS PAPER (2)
- CORRECTION (1)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Socio-economic inequality: Relationship between Gini and Kolkata indices**
By: Chatterjee, Arnab; Ghosh, Asim; Chakrabarti, Bikas K.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 466 Pages: 583-595 Published: JAN 15 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **Cross-correlation patterns in social opinion formation with sequential data**
By: Chakrabarti, Anindya S.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 462 Pages: 442-454 Published: NOV 15 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

3. **Wikipedia traffic data and electoral prediction: towards theoretically informed models**
By: Yasseri, Taha; Bright, Jonathan
EPJ DATA SCIENCE Volume: 5 Article Number: 22 Published: JUN 18 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

4. **Competing opinions and stubborness: Connecting models to data**
By: Burghardt, Keith; Rand, William; Girvan, Michelle
PHYSICAL REVIEW E Volume: 93 Issue: 3 Article Number: 032305 Published: MAR 3 2016
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

5. **Invariant features of spatial inequality in consumption: The case of India**
By: Chatterjee, Arnab; Chakrabarti, Anindya S.; Ghosh, Asim; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 442 Pages: 169-181 Published: JAN 15 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

6. **Universality of Citation Distributions for Academic Institutions and Journals**
By: Chatterjee, Arnab; Ghosh, Asim; Chakrabarti, Bikas K.
PLOS ONE Volume: 11 Issue: 1 Article Number: e0146762 Published: JAN 11 2016
Full Text from Publisher | View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

7. **Stylized Facts in Brazilian Vote Distributions**
By: Calvao, Angelo Mondaini; Crokidakis, Nuno; Anteneodo, Celia
PLOS ONE Volume: 10 Issue: 9 Article Number: e0137732 Published: SEP 29 2015
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

8. **Measuring social inequality with quantitative methodology: Analytical estimates and empirical data analysis by Gini and k indices**
By: Inoue, Jun-ichi; Ghosh, Asim; Chatterjee, Arnab; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 429 Pages: 184-204 Published: JUL 1 2015
Full Text from Publisher | View Abstract
Times Cited: 11 *(from Web of Science Core Collection)*
Usage Count

9. **Voting behavior in proportional elections from agent-based models**
By: Palombi, Filippo; Toti, Simona
Edited by: Orsitto, FP; Chiarella, V; Chiadroni, E; et al.
Conference: 3rd International Conference Frontiers in Diagnostic Technologies Location: Rome, ITALY Date: NOV 25-27, 2013 Sponsor(s): ENEA; INFN; ICFDT
3RD INTERNATIONAL CONFERENCE FRONTIERS IN DIAGNOSTIC TECHNOLOGIES, ICFDT3 2013 Book Series: Physics Procedia Volume: 62 Pages: 42-47 Published: 2015
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

10. **Social inequality: from data to statistical physics modeling**
By: Chatterjee, Arnab; Ghosh, Asim; Inoue, Jun-ichi; et al.
Book Group Author(s): IOP
Conference: 8th International Conference on Statistical Physics (STATPHYS) Location: Kolkata, INDIA Date: DEC 01-05, 2014 STATPHYS-KOLKATA VIII Book Series: Journal of Physics Conference Series Volume: 638 Article Number: 012014 Published: 2015
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

11. **Is the Voter Model a Model for Voters?**
By: Fernandez-Gracia, Juan; Suchecki, Krzysztof; Ramasco, Jose J.; et al.
PHYSICAL REVIEW LETTERS Volume: 112 Issue: 15 Article Number: 158701 Published: APR 18 2014
View Abstract
Times Cited: 36 *(from Web of Science Core Collection)*
Usage Count

12. **Moral foundations in an interacting neural networks society: A statistical mechanics analysis**
By: Vicente, R.; Susemihl, A.; Jerico, J. P.; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 400 Pages: 124-138 Published: APR 15 2014
Full Text from Publisher | View Abstract
Times Cited: 4 *(from Web of Science Core Collection)*
Usage Count

13. **Universal size effects for populations in group-outcome decision-making problems**
By: Borghesi, Christian; Hernandez, Laura; Louf, Remi; et al.
PHYSICAL REVIEW E Volume: 88 Issue: 6 Article Number: 062813 Published: DEC 13 2013
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

14. **Topological bifurcations in a model society of reasonable contrarians**
By: Bagnoli, Franco; Rechtman, Raul
Times Cited: 8 *(from Web of Science Core Collection)*

PHYSICAL REVIEW E Volume: 88 Issue: 6 Article Number: 062914 Published: DEC 10 2013

View Abstract

Usage Count

15. **Opinion dynamics model with weighted influence: Exit probability and dynamics**

By: Biswas, Soham; Sinha, Suman; Sen, Parongama
PHYSICAL REVIEW E Volume: 88 Issue: 2 Article Number: 022152 Published: AUG 30 2013

View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

16. **Engagement in the electoral processes: Scaling laws and the role of political positions**

By: Mantovani, M. C.; Ribeiro, H. V.; Lenzi, E. K.; et al.
PHYSICAL REVIEW E Volume: 88 Issue: 2 Article Number: 024802 Published: AUG 26 2013

View Abstract

Times Cited: 5 *(from Web of Science Core Collection)*

Usage Count

17. **Distance to the Scaling Law: A Useful Approach for Unveiling Relationships between Crime and Urban Metrics**

By: Alves, Luiz G. A.; Ribeiro, Haroldo V.; Lenzi, Ervin K.; et al.
PLOS ONE Volume: 8 Issue: 8 Article Number: e69580 Published: AUG 5 2013

Full Text from Publisher | View Abstract

Times Cited: 17 *(from Web of Science Core Collection)*

Usage Count

18. **Dynamics of influence on hierarchical structures**

By: Fotouhi, Babak; Rabbat, Michael G.
PHYSICAL REVIEW E Volume: 88 Issue: 2 Article Number: 022105 Published: AUG 5 2013

View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

19. **Universality in voting behavior: an empirical analysis (vol 3, 1049, 2013)**

By: Chatterjee, Arnab; Mitrovic, Marija; Fortunato, Santo
SCIENTIFIC REPORTS Volume: 3 Published: JAN 23 2013

Full Text from Publisher

Times Cited: 0 *(from Web of Science Core Collection)*

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest

Show: 25 per page

Page 1 of 1

19 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 11
(from Web of Science Core Collection)

For: Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks ...Less

Times Cited Counts

11 in All Databases
11 in Web of Science Core Collection
3 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (4)
- MULTIDISCIPLINARY SCIENCES (3)
- PSYCHOLOGY APPLIED (1)
- PHYSICS CONDENSED MATTER (1)
- MANAGEMENT (1)

more options / values...

Refine

Document Types

- ARTICLE (9)
- PROCEEDINGS PAPER (2)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **In the mood: the dynamics of collective sentiments on Twitter**
By: Charlton, Nathaniel; Singleton, Colin; Greetham, Danica Vukadinovic
ROYAL SOCIETY OPEN SCIENCE Volume: 3 Issue: 6 Article Number: 160162 Published: JUN 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

2. **Application of Entropy-Based Metrics to Identify Emotional Distress from Electroencephalographic Recordings**
By: Garcia-Martinez, Beatriz; Martinez-Rodrigo, Arturo; Zangroniz Cantabrana, Roberto; et al.
ENTROPY Volume: 18 Issue: 6 Article Number: UNSP 221 Published: JUN 2016
Full Text from Publisher | View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

3. **Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers**
By: Andjelkovic, Miroslav; Tadic, Bosiljka; Dankulov, Marija Mitrovic; et al.
PLOS ONE Volume: 11 Issue: 5 Article Number: e0154655 Published: MAY 12 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

4. **Hierarchical sequencing of online social graphs**
By: Andjelkovic, Miroslav; Tadic, Bosiljka; Maletic, Slobodan; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 436 Pages: 582-595 Published: OCT 15 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

5. **Central nodes and surprise in content selection in social networks**
By: Figueiredo, Carlos; Chen, Wenhong; Azevedo, Jose
COMPUTERS IN HUMAN BEHAVIOR Volume: 51 Pages: 382-392 Part: A Published: OCT 2015
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

6. **The dynamics of meaningful social interactions and the emergence of collective knowledge**
By: Dankulov, Marija Mitrovic; Melnik, Roderick; Tadic, Bosiljka
SCIENTIFIC REPORTS Volume: 5 Article Number: 12197 Published: JUL 15 2015
Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Full Text from Publisher | View Abstract

7. **Interevent time distributions of human multi-level activity in a virtual world**
By: Mryglod, O.; Fuchs, B.; Szell, M.; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 419 Pages: 681-690 Published: FEB 1 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

8. **Social Media And Emotions In Organisational Knowledge Creation**
By: Jalonen, Harri
Book Group Author(s): IEEE
Conference: Federated Conference on Computer Science and Information Systems (FedCSIS) Location: Warsaw, POLAND Date: SEP 07-10, 2014
FEDERATED CONFERENCE ON COMPUTER SCIENCE AND INFORMATION SYSTEMS, 2014 Book Series: ACSIS-Annals of Computer Science and Information Systems Volume: 2 Pages: 1371-1379 Published: 2014
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

9. **Negative Emotions in Social Media as a Managerial Challenge**
By: Jalonen, Harri
Edited by: Grozdanic, V
Conference: 10th European Conference on Management Leadership and Governance (ECMLG) Location: VERN Univ Appl Sci, Zagreb, CROATIA Date: NOV 13-14, 2014
PROCEEDINGS OF THE 10TH EUROPEAN CONFERENCE ON MANAGEMENT LEADERSHIP AND GOVERNANCE (ECMLG 2014) Book Series: Proceedings of the Conference on European Management Leadership and Governance Pages: 128-135 Published: 2014
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

10. **Collective emotion dynamics in chats with agents, moderators and Bots**
By: Suvakov, M.; Tadic, B.
CONDENSED MATTER PHYSICS Volume: 17 Issue: 3 Article Number: 33801 Published: 2014
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

11. **Entropy and the Predictability of Online Life**
By: Sinatra, Roberta; Szell, Michael
ENTROPY Volume: 16 Issue: 1 Pages: 543-556 Published: JAN 2014
Full Text from Publisher | View Abstract
Times Cited: 7 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 25 per page
Page 1 of 1

11 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 11
(from Web of Science Core Collection)

For: How the online social networks are used: dialogues-based structure of MySpace ...Less

Times Cited Counts

11 in All Databases
11 in Web of Science Core Collection
1 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (4)
- PHYSICS MATHEMATICAL (2)
- MEDICAL INFORMATICS (2)
- MATHEMATICS INTERDISCIPLINARY APPLICATIONS (1)
- HEALTH CARE SCIENCES SERVICES (1)

more options / values...

Refine

Document Types

- ARTICLE (10)
- PROCEEDINGS PAPER (2)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Dynamics of Users Activity on Web-Blogs**
By: Koziol, Z.
Conference: 8th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Univ Rzeszow, Rzeszow, POLAND Date: NOV 04-06, 2015
Sponsor(s): Univ Rzeszow, Fac Math & Nat Sci; Warsaw Univ Life Sci, Fac Appl Informat & Math; Polish Phys Soc, Phys Econ & Social Sci Sect; Minist Sci & Higher Educ
ACTA PHYSICA POLONICA A Volume: 129 Issue: 5 Pages: 1060-1063 Published: MAY 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **Understanding Online Health Groups for Depression: Social Network and Linguistic Perspectives**
By: Xu, Ronghua; Zhang, Qingpeng
JOURNAL OF MEDICAL INTERNET RESEARCH Volume: 18 Issue: 3 Article Number: e63 Published: MAR 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

3. **Social Dynamics of the Online Health Communities for Mental Health**
By: Xu, Ronghua; Zhang, Qingpeng
Edited by: Zheng, X; Zeng, DD; Chen, H; et al.
Conference: Annual International Conference for Smart Health (ICSH) Location: Phoenix, AZ Date: NOV 17-18, 2015
Sponsor(s): Univ Arizona; Mayo Clin; Chinese Acad Sci; Natl Nat Sci Fdn China; IEEE SMC Tech Comm Homeland Secur; Inst Operat Res & Management Sciences
SMART HEALTH, ICSH 2015 Book Series: Lecture Notes in Computer Science Volume: 9545 Pages: 267-277 Published: 2016
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

4. **Sentiment cascades in the 15M movement**
By: Alvarez, Raquel; Garcia, David; Moreno, Yamir; et al.
EPJ DATA SCIENCE Volume: 4 Issue: 1 Article Number: 6 Published: DEC 2015
Full Text from Publisher | View Abstract
Times Cited: 7 *(from Web of Science Core Collection)*
Usage Count

5. **Hierarchical sequencing of online social graphs**
By: Andjelkovic, Miroslav; Tadic, Bosiljka; Maletic, Slobodan; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 436 Pages: 582-595 Published: OCT 15 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

6. **The dynamics of meaningful social interactions and the emergence of collective knowledge**
By: Dankulov, Marija Mitrovic; Melnik, Roderick; Tadic, Bosiljka
SCIENTIFIC REPORTS Volume: 5 Article Number: 12197 Published: JUL 15 2015
Full Text from Publisher | View Abstract
Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

7. **Hidden geometry of traffic jamming**
By: Andjelkovic, Miroslav; Gupte, Neelima; Tadic, Bosiljka
PHYSICAL REVIEW E Volume: 91 Issue: 5 Article Number: 052817 Published: MAY 28 2015
View Abstract
Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

8. **Interevent time distributions of human multi-level activity in a virtual world**
By: Mryglod, O.; Fuchs, B.; Szell, M.; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 419 Pages: 681-690 Published: FEB 1 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

9. **Collective emotion dynamics in chats with agents, moderators and Bots**
By: Suvakov, M.; Tadic, B.
CONDENSED MATTER PHYSICS Volume: 17 Issue: 3 Article Number: 33801 Published: 2014
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

10. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**
By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013
Full Text from Publisher | View Abstract
Times Cited: 11 *(from Web of Science Core Collection)*
Usage Count

11. **Can human-like Bots control collective mood: agent-based simulations of online chats**
By: Tadic, Bosiljka; Suvakov, Milovan
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P10014 Published: OCT 2013
View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 25 per page
Page 1 of 1

11 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 4

(from Web of Science Core Collection)

For: Statistical Analysis of Emotions and Opinions at Digg Website ...Less

Times Cited Counts

4 in All Databases

4 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (2)
- PHYSICS MATHEMATICAL (1)
- PHYSICS FLUIDS PLASMAS (1)
- MULTIDISCIPLINARY SCIENCES (1)
- MATHEMATICS INTERDISCIPLINARY APPLICATIONS (1)

more options / values...

Refine

Document Types

- ARTICLE (4)
- PROCEEDINGS PAPER (2)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **The Role of Emotional Variables in the Classification and Prediction of Collective Social Dynamics**

By: Choloniewski, J.; Sienkiewicz, J.; Holyst, J.; et al.
Conference: 7th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Maria Curie Sklodowska Univ, Lublin, POLAND Date: MAY 14-17, 2014
Sponsor(s): Polish Minist Sci & Higher Educ; Polish Phys Soc
ACTA PHYSICA POLONICA A Volume: 127 Issue: 3A Pages: A21-A28 Published: MAR 2015

View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*

Usage Count

2. **Spanning Trees of the World Trade Web: Real-World Data and the Gravity Model of Trade**

By: Skowron, P.; Karpiarz, M.; Fronczak, A.; et al.
Conference: 7th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Maria Curie Sklodowska Univ, Lublin, POLAND Date: MAY 14-17, 2014
Sponsor(s): Polish Minist Sci & Higher Educ; Polish Phys Soc
ACTA PHYSICA POLONICA A Volume: 127 Issue: 3A Pages: A123-A128 Published: MAR 2015

View Abstract

Times Cited: 0 *(from Web of Science Core Collection)*

Usage Count

3. **Finite size induces crossover temperature in growing spin chains**

By: Sienkiewicz, Julian; Suchecki, Krzysztof; Holyst, Janusz A.
PHYSICAL REVIEW E Volume: 89 Issue: 1 Article Number: 012105 Published: JAN 7 2014

View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*

Usage Count

4. **ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES**

By: Sienkiewicz, Julian; Skowron, Marcin; Paltoglou, Georgios; et al.
ADVANCES IN COMPLEX SYSTEMS Volume: 16 Issue: 4-5 Article Number: 1350026 Published: AUG 2013

View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Show: 10 per page

4 records matched your query of the 37,663,056 in the data limits you selected.

- Editors
- Source Titles
- Book Series Titles
- Conference Titles
- Publication Years
- Organizations-Enhanced
- Funding Agencies
- Languages
- Countries/Territories
- ESI Top Papers
- Open Access

For advanced refine options, use

Analyze Results

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 10
(from Web of Science Core Collection)

For: Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling ...Less

Times Cited Counts

10 in All Databases
10 in Web of Science Core Collection
1 in BIOSIS Citation Index
1 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (5)
- PHYSICS MATHEMATICAL (3)
- PHYSICS CONDENSED MATTER (2)
- PHYSICS FLUIDS PLASMAS (1)
- MULTIDISCIPLINARY SCIENCES (1)

more options / values...

Refine

Document Types

- ARTICLE (10)

Refine

Research Areas

Authors

Group Authors

Editors

Sort by: Publication Date -- newest to oldest | Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Asymmetric intimacy and algorithm for detecting communities in bipartite networks**
By: Wang, Xingyuan; Qin, Xiaomeng
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 462 Pages: 569-578 Published: NOV 15 2016
Full Text from Publisher | View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

2. **Detecting one-mode communities in bipartite networks by bipartite clustering triangular**
By: Cui, Yaozu; Wang, Xingyuan
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 457 Pages: 307-315 Published: SEP 1 2016
Full Text from Publisher | View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

3. **The dynamics of meaningful social interactions and the emergence of collective knowledge**
By: Dankulov, Marija Mitrovic; Melnik, Roderick; Tadic, Bosiljka
SCIENTIFIC REPORTS Volume: 5 Article Number: 12197 Published: JUL 15 2015
Full Text from Publisher | View Abstract
Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

4. **Finite size induces crossover temperature in growing spin chains**
By: Sienkiewicz, Julian; Suchecki, Krzysztof; Holyst, Janusz A.
PHYSICAL REVIEW E Volume: 89 Issue: 1 Article Number: 012105 Published: JAN 7 2014
View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

5. **Collective emotion dynamics in chats with agents, moderators and Bots**
By: Suvakov, M.; Tadic, B.
CONDENSED MATTER PHYSICS Volume: 17 Issue: 3 Article Number: 33801 Published: 2014
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

6. **A local-world evolving hypernetwork model**
By: Yang Guang-Yong; Liu Jian-Guo
CHINESE PHYSICS B Volume: 23 Issue: 1 Article Number: 018901 Published: JAN 2014
View Abstract
Times Cited: 9 *(from Web of Science Core Collection)*
Usage Count

Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

7. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**
By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120
Published: DEC 2013
Full Text from Publisher | View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*
Usage Count

8. **Effect of the social influence on topological properties of user-object bipartite networks**
By: Liu, Jian-Guo; Hu, Zhaolong; Guo, Qiang
EUROPEAN PHYSICAL JOURNAL B Volume: 86 Issue: 11
Article Number: 478 Published: NOV 20 2013
View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

9. **Can human-like Bots control collective mood: agent-based simulations of online chats**
By: Tadic, Bosiljka; Suvakov, Milovan
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P10014 Published: OCT 2013
View Abstract

Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

10. **Scaling exponents and phase separation in a nonlinear network model inspired by the gravitational accretion**
By: Bogojevic, Aleksandar; Balaz, Antun; Belic, Aleksandar
PHYSICA D-NONLINEAR PHENOMENA Volume: 255 Pages: 52-57 Published: JUL 15 2013
Full Text from Publisher | View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 10 per page
Page 1 of 1

10 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 17
(from Web of Science Core Collection)

For: Quantitative analysis of bloggers' collective behavior powered by emotions ...Less

Times Cited Counts

18 in All Databases
18 in Web of Science Core Collection
5 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- MULTIDISCIPLINARY SCIENCES (6)
- PHYSICS MULTIDISCIPLINARY (5)
- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (3)
- PHYSICS MATHEMATICAL (2)
- ENGINEERING ELECTRICAL ELECTRONIC (2)

more options / values...

Refine

Document Types

- ARTICLE (14)
- PROCEEDINGS PAPER (4)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Associative nature of event participation dynamics: A network theory approach**
By: Smiljanic, Jelena; Dankulov, Marija Mitrovic
PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565 Published: FEB 6 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **How to Measure Memorability and Social Interestingness of Images: A Review**
By: Amengual, Xesca; Bosch, Anna; Lluis de la Rosa, Josep
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE Volume: 31 Issue: 2 Article Number: 1754004 Published: FEB 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

3. **The dynamics of meaningful social interactions and the emergence of collective knowledge**
By: Dankulov, Marija Mitrovic; Melnik, Roderick; Tadic, Bosiljka
SCIENTIFIC REPORTS Volume: 5 Article Number: 12197 Published: JUL 15 2015
Full Text from Publisher | View Abstract
Times Cited: 6 *(from Web of Science Core Collection)*
Usage Count

4. **Interevent time distributions of human multi-level activity in a virtual world**
By: Mryglod, O.; Fuchs, B.; Szell, M.; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 419 Pages: 681-690 Published: FEB 1 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

5. **Fluctuation Scaling in Online Social Media**
By: Sano, Yukie; Takayasu, Hideki; Takayasu, Misako
Book Group Author(s): IEEE
Conference: International Conference on Noise and Fluctuations Location: Xian, PEOPLES R CHINA Date: JUN 02-06, 2015 2015 INTERNATIONAL CONFERENCE ON NOISE AND FLUCTUATIONS (ICNF) Published: 2015
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

6. **Review of Methods to Predict Social Image Interestingness and Memorability**
By: Amengual, Xesca; Bosch, Anna; Lluis de la Rosa, Josep
Edited by: Azzopardi, G; Petkov, N
Conference: 16th International Conference on Computer Analysis of Images and Patterns (CAIP) Location: Valletta, MALTA Date: SEP 02-04, 2015
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Sponsor(s): Maltese Minist Finance; Malta Council Sci & Technol; Malta Tourism Author; Springer; Julich Supercomputing Ctr
COMPUTER ANALYSIS OF IMAGES AND PATTERNS, CAIP 2015, PT I Book Series: Lecture Notes in Computer Science Volume: 9256 Pages: 64-76 Published: 2015

View Abstract

7. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**

By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013

Full Text from Publisher | View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

8. **Can human-like Bots control collective mood: agent-based simulations of online chats**

By: Tadic, Bosiljka; Suvakov, Milovan
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P10014 Published: OCT 2013

View Abstract

Times Cited: 3 *(from Web of Science Core Collection)*

Usage Count

9. **ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES**

By: Sienkiewicz, Julian; Skowron, Marcin; Paltoglou, Georgios; et al.
ADVANCES IN COMPLEX SYSTEMS Volume: 16 Issue: 4-5 Article Number: 1350026 Published: AUG 2013

View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

10. **Scaling exponents and phase separation in a nonlinear network model inspired by the gravitational accretion**

By: Bogojevic, Aleksandar; Balaz, Antun; Belic, Aleksandar
PHYSICA D-NONLINEAR PHENOMENA Volume: 255 Pages: 52-57 Published: JUL 15 2013

Full Text from Publisher | View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

11. **Statistical Analysis of Emotions and Opinions at Digg Website**

By: Pohorecki, P.; Sienkiewicz, J.; Mitrovic, M.; et al.
Conference: 6th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Univ Gdansk, Fac Math, Phys & Informat, Gdansk, POLAND Date: APR 19-21, 2012
ACTA PHYSICA POLONICA A Volume: 123 Issue: 3 Pages: 604-614 Published: MAR 2013

View Abstract

Times Cited: 4 *(from Web of Science Core Collection)*

Usage Count

12. **How the online social networks are used: dialogues-based structure of MySpace**

By: Suvakov, Milovan; Mitrovic, Marija; Gligorijevic, Vladimir; et al.
JOURNAL OF THE ROYAL SOCIETY INTERFACE Volume: 10 Issue: 79 Article Number: 20120819 Published: FEB 6 2013

View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

13. **Predicting Emotional Responses to Long Informal Text**

By: Paltoglou, Georgios; Theunis, Mathias; Kappas, Arvid; et al.
IEEE TRANSACTIONS ON AFFECTIVE COMPUTING Volume: 4 Issue: 1 Pages: 106-115 Published: JAN-MAR 2013

View Abstract

Times Cited: 9 *(from Web of Science Core Collection)*

Usage Count

14. **Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling**
By: Mitrovic, Marija; Tadic, Bosiljka
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 391 Issue: 21 Pages: 5264-5278
Published: NOV 1 2012
Full Text from Publisher | View Abstract
Times Cited: 10 *(from Web of Science Core Collection)*
Usage Count

15. **Understanding Crowd-Powered Search Groups: A Social Network Perspective**
By: Zhang, Qingpeng; Wang, Fei-Yue; Zeng, Daniel; et al.
PLOS ONE Volume: 7 Issue: 6 Article Number: e39749
Published: JUN 27 2012
Full Text from Publisher | View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

16. **Directed Networks of Online Chats: Content-Based Linking and Social Structure**
By: Gligorijevic, Vladimir; Skowron, Marcin; Tadic, Bosiljka
Edited by: Yetongnon, K; Chbeir, R; Dipanda, A; et al.
Conference: 8th International Conference on Signal Image Technology and Internet Based Systems (SITIS) Location: Univ Bourgogne, Sorrento, ITALY Date: NOV 25-29, 2012
Sponsor(s): IEEE Comp Soc; INCAR
8TH INTERNATIONAL CONFERENCE ON SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS (SITIS 2012)
Pages: 725-730 Published: 2012
View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

17. **Collective Emotions Online and Their Influence on Community Life**
By: Chmiel, Anna; Sienkiewicz, Julian; Thelwall, Mike; et al.
PLOS ONE Volume: 6 Issue: 7 Article Number: e22207
Published: JUL 27 2011
Full Text from Publisher | View Abstract
Times Cited: 44 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 25 per page
Page 1 of 1

17 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 25
(from Web of Science Core Collection)

For: Bloggers behavior and emergent communities in Blog space ...Less

Times Cited Counts

26 in All Databases
26 in Web of Science Core Collection
5 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (8)
- MULTIDISCIPLINARY SCIENCES (5)
- PHYSICS MATHEMATICAL (4)
- PHYSICS CONDENSED MATTER (3)
- MECHANICS (3)

more options / values...

Refine

Document Types

- ARTICLE (23)
- PROCEEDINGS PAPER (4)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Associative nature of event participation dynamics: A network theory approach**
By: Smiljanic, Jelena; Dankulov, Marija Mitrovic
PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565 Published: FEB 6 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **A Generalized Spatial Measure for Resilience of Microbial Systems**
By: Renslow, Ryan S.; Lindemann, Stephen R.; Song, Hyun-Seob
FRONTIERS IN MICROBIOLOGY Volume: 7 Article Number: 443 Published: APR 7 2016
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

3. **New activity pattern in human interactive dynamics**
By: Formentin, Marco; Lovison, Alberto; Maritan, Amos; et al.
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P09006 Published: SEP 2015
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

4. **Collective emotion dynamics in chats with agents, moderators and Bots**
By: Suvakov, M.; Tadic, B.
CONDENSED MATTER PHYSICS Volume: 17 Issue: 3 Article Number: 33801 Published: 2014
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

5. **Entropy and the Predictability of Online Life**
By: Sinatra, Roberta; Szell, Michael
ENTROPY Volume: 16 Issue: 1 Pages: 543-556 Published: JAN 2014
Full Text from Publisher | View Abstract
Times Cited: 7 *(from Web of Science Core Collection)*
Usage Count

6. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**
By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013
Full Text from Publisher | View Abstract
Times Cited: 11 *(from Web of Science Core Collection)*
Usage Count

7. **Can human-like Bots control collective mood: agent-based simulations of online chats**
By: Tadic, Bosiljka; Suvakov, Milovan
Times Cited: 3 *(from Web of Science Core Collection)*

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Usage Count

JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P10014 Published: OCT 2013

View Abstract

8. **ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES**

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

By: Sienkiewicz, Julian; Skowron, Marcin; Paltoglou, Georgios; et al.
ADVANCES IN COMPLEX SYSTEMS Volume: 16 Issue: 4-5 Article Number: 1350026 Published: AUG 2013

View Abstract

9. **Statistical Analysis of Emotions and Opinions at Digg Website**

Times Cited: 4 *(from Web of Science Core Collection)*

Usage Count

By: Pohorecki, P.; Sienkiewicz, J.; Mitrovic, M.; et al.
Conference: 6th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Univ Gdansk, Fac Math, Phys & Informat, Gdansk, POLAND Date: APR 19-21, 2012
ACTA PHYSICA POLONICA A Volume: 123 Issue: 3 Pages: 604-614 Published: MAR 2013

View Abstract

10. **How the online social networks are used: dialogues-based structure of MySpace**

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

By: Suvakov, Milovan; Mitrovic, Marija; Gligorijevic, Vladimir; et al.
JOURNAL OF THE ROYAL SOCIETY INTERFACE Volume: 10 Issue: 79 Article Number: 20120819 Published: FEB 6 2013

View Abstract

11. **Application of Graph Cellular Automata in Social Network Based Recommender System**

Times Cited: 0 *(from Web of Science Core Collection)*

Usage Count

By: Malecki, Krzysztof; Jankowski, Jaroslaw; Rokita, Mateusz
Edited by: Badica, C; Nguyen, NT; Brezovan, M
Conference: 5th International Conference on Computational Collective Intelligence (ICCCI) Location: Craiova, ROMANIA Date: SEP 11-13, 2013
Sponsor(s): Univ Craiova; Wroclaw Univ Technol; IEEE SMC Tech Comm Computat Collect Intelligence; Romanian Assoc Artificial Intelligence; IEEE Romania Computat Intelligence Sect
COMPUTATIONAL COLLECTIVE INTELLIGENCE: TECHNOLOGIES AND APPLICATIONS Book Series: Lecture Notes in Artificial Intelligence Volume: 8083 Pages: 21-29 Published: 2013

View Abstract

12. **Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling**

Times Cited: 10 *(from Web of Science Core Collection)*

Usage Count

By: Mitrovic, Marija; Tadic, Bosiljka
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 391 Issue: 21 Pages: 5264-5278 Published: NOV 1 2012

Full Text from Publisher View Abstract

13. **Emotional persistence in online chatting communities**

Times Cited: 23 *(from Web of Science Core Collection)*

Usage Count

By: Garas, Antonios; Garcia, David; Skowron, Marcin; et al.
SCIENTIFIC REPORTS Volume: 2 Article Number: 402 Published: MAY 10 2012

Full Text from Publisher View Abstract

14. **Emotional Analysis of Blogs and Forums Data**

Times Cited: 2 *(from Web of Science Core Collection)*

By: Weronski, P.; Sienkiewicz, J.; Paltoglou, G.; et al.
Conference: 5th FENS Symposium on Physics in Economics and

Social Sciences Location: Warsaw Univ Life Sci-SGGW, Warsaw, POLAND Date: NOV 25-27, 2010
Sponsor(s): Szkola Glowna Gospodarstwa Wiejskiego; Polskie Towarzystwo Fizyczne, sekcja Fizyka Ekonomii Naukach Spolecznych
ACTA PHYSICA POLONICA A Volume: 121 Issue: 2 Pages: B128-B132 Published: FEB 2012

View Abstract

Usage Count

15. **Investigating biomedical research literature in the blogosphere: a case study of diabetes and glycated hemoglobin (HbA1c)**

By: Gruzd, Anatoliy; Black, Fiona A.; Le, Thi Ngoc Yen; et al.
JOURNAL OF THE MEDICAL LIBRARY ASSOCIATION Volume: 100 Issue: 1 Pages: 34-42 Published: JAN 2012

Full Text from Publisher | View Abstract

Times Cited: 7 *(from Web of Science Core Collection)*

Usage Count

16. **Mining Characteristics of Network Community User Group Based on CDFP-tree Algorithm**

By: Wang, Ying; Yan, Jianzhuo; Fang, Liying; et al.
Edited by: Baozong, Y; Qiuqi, R; Xiaofang, T
Conference: IEEE 11th International Conference on Signal Processing (ICSP) Location: Beijing, PEOPLES R CHINA Date: OCT 21-25, 2012
Sponsor(s): IEEE; Chinese Inst Elect; Institut Engn & Technol; Union Radio Sci Int; Natl Nat Sci Fdn China; IEEE Beijing Sect; IEEE Signal Proc Soc Beijing Chapter; IEEE Comp Soc Beijing Chapter; Japan China Sci & Technol Exchange Assoc; Shenzhen Univ, Intelligent Informat Inst; CIC Commun & Signal Proc Soc; Beijing Jiaotong Univ; CIE Signal Proc Soc
PROCEEDINGS OF 2012 IEEE 11TH INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING (ICSP) VOLS 1-3
Book Series: International Conference on Signal Processing
Pages: 1202-1206 Published: 2012

View Abstract

Times Cited: 0 *(from Web of Science Core Collection)*

Usage Count

17. **The blogosphere as an excitable social medium: Richter's and Omori's Law in media coverage**

By: Klimek, Peter; Bayer, Werner; Thurner, Stefan
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 390 Issue: 21-22 Pages: 3870-3875 Published: OCT 15 2011

Full Text from Publisher | View Abstract

Times Cited: 7 *(from Web of Science Core Collection)*

Usage Count

18. **Negative emotions boost user activity at BBC forum**

By: Chmiel, Anna; Sobkowicz, Pawel; Sienkiewicz, Julian; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 390 Issue: 16 Pages: 2936-2944 Published: AUG 15 2011

Full Text from Publisher | View Abstract

Times Cited: 50 *(from Web of Science Core Collection)*

Usage Count

19. **Citations among blogs in a hierarchy of communities: Method and case study**

By: Brahim, Abdelhamid Salah; Le Grand, Benedicte; Tabourier, Lionel; et al.
JOURNAL OF COMPUTATIONAL SCIENCE Volume: 2 Issue: 3 Special Issue: SI Pages: 247-252 Published: AUG 2011

Full Text from Publisher | View Abstract

Times Cited: 4 *(from Web of Science Core Collection)*

Usage Count

20. **Collective Emotions Online and Their Influence on Community Life**

By: Chmiel, Anna; Sienkiewicz, Julian; Thelwall, Mike; et al.
PLOS ONE Volume: 6 Issue: 7 Article Number: e22207 Published: JUL 27 2011

Full Text from Publisher | View Abstract

Times Cited: 44 *(from Web of Science Core Collection)*

Usage Count

21. **Quantitative analysis of bloggers' collective behavior powered by emotions**
By: Mitrovic, Marija; Paltoglou, Georgios; Tadic, Bosiljka
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P02005 Published: FEB 2011
View Abstract

Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

22. **Networks of Motifs from Sequences of Symbols**
By: Sinatra, Roberta; Condorelli, Daniele; Latora, Vito
PHYSICAL REVIEW LETTERS Volume: 105 Issue: 17 Article Number: 178702 Published: OCT 19 2010
View Abstract

Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

23. **An agent-based model of collective emotions in online communities**
By: Schweitzer, F.; Garcia, D.
EUROPEAN PHYSICAL JOURNAL B Volume: 77 Issue: 4 Pages: 533-545 Published: OCT 2010
View Abstract

Times Cited: 40 *(from Web of Science Core Collection)*
Usage Count

24. **Networks and emotion-driven user communities at popular blogs**
By: Mitrovic, M.; Paltoglou, G.; Tadic, B.
EUROPEAN PHYSICAL JOURNAL B Volume: 77 Issue: 4 Pages: 597-609 Published: OCT 2010
View Abstract

Times Cited: 32 *(from Web of Science Core Collection)*
Usage Count

25. **Power law signature of media exposure in human response waiting time distributions**
By: Crane, Riley; Schweitzer, Frank; Sornette, Didier
PHYSICAL REVIEW E Volume: 81 Issue: 5 Article Number: 056101 Part: 2 Published: MAY 2010
View Abstract

Times Cited: 14 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 50 per page

Page 1 of 1

25 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 31
(from Web of Science Core Collection)

For: Networks and emotion-driven user communities at popular blogs
...Less

Times Cited Counts

33 in All Databases
32 in Web of Science Core Collection
5 in BIOSIS Citation Index
1 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (10)
- PHYSICS MATHEMATICAL (8)
- MULTIDISCIPLINARY SCIENCES (8)
- MATHEMATICS INTERDISCIPLINARY APPLICATIONS (3)
- INFORMATION SCIENCE LIBRARY SCIENCE (3)

more options / values...

Refine

Document Types

- ARTICLE (25)
- PROCEEDINGS PAPER (8)
- EDITORIAL MATERIAL (1)

more options / values...

Refine

Research Areas

Authors

Sort by: Publication Date -- newest to oldest

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Associative nature of event participation dynamics: A network theory approach**
By: Smiljanic, Jelena; Dankulov, Marija Mitrovic
PLOS ONE Volume: 12 Issue: 2 Article Number: e0171565 Published: FEB 6 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **Interevent time distributions of human multi-level activity in a virtual world**
By: Mryglod, O.; Fuchs, B.; Szell, M.; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 419 Pages: 681-690 Published: FEB 1 2015
Full Text from Publisher | View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

3. **Finite size induces crossover temperature in growing spin chains**
By: Sienkiewicz, Julian; Suchecki, Krzysztof; Holyst, Janusz A.
PHYSICAL REVIEW E Volume: 89 Issue: 1 Article Number: 012105 Published: JAN 7 2014
View Abstract
Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

4. **Predicting Student Blood Pressure by Support Vector Machine Using Facebook.**
By: Khan, Shazada Muhammad Umair; Shaikh, Javaria Manzoor; Lee, Scott U. K. Jin
Edited by: Zhang, LJ; Bahsoon, R
Conference: IEEE World Congress on Services (SERVICES) Location: Anchorage, AK Date: JUN 27-JUL 02, 2014
Sponsor(s): IEEE; IEEE Comp Soc; IBM Research; SAP; HP; Huawei; Serv Comp; Serv Soc; Cloud Comp; Big Data; IBM; Object Management Grp; Int Journal Business Proc Integrat & Management; ITProfess; Int Journal Web Serv Res; Comp Now; IEEE Transact Serv Comp
2014 IEEE WORLD CONGRESS ON SERVICES (SERVICES) Book Series: IEEE World Congress on Services Pages: 486-492 Published: 2014
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

5. **Emotional isolation in BBC Forum**
By: Sienkiewicz, J.; Chmiel, A.
Edited by: Vagenas, EC; Vlachos, DS
Conference: 2nd International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE) Location: Prague, CZECH REPUBLIC Date: SEP 01-05, 2013
2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELING IN PHYSICAL SCIENCES 2013 (IC-MSQUARE 2013) Book Series: Journal of Physics Conference Series
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

Group Authors
Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Volume: 490 Article Number: 012187 Published: 2014

Full Text from Publisher | View Abstract

6. **Predicting students blood pressure by Artificial Neuron Network Facebook predict students blood pressure**

By: Khan, Shazada Muhammad Umair; Shaikh, Javaria Manzoor
Book Group Author(s): IEEE
Conference: Science and Information Conference (SAI) Location: Sci & Informat Org, London, ENGLAND Date: AUG 27-29, 2014 Sponsor(s): Microsoft; RK Trans2Cloud; Springer; IEEE Comp Soc, UKRI Sect; IEEE Computat Intelligence Soc, UKRI Sect; IEEE
2014 SCIENCE AND INFORMATION CONFERENCE (SAI)
Pages: 430-437 Published: 2014

View Abstract

Times Cited: 0
(from Web of Science Core Collection)

Usage Count

7. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**

By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013

Full Text from Publisher | View Abstract

Times Cited: 11
(from Web of Science Core Collection)

Usage Count

8. **Can human-like Bots control collective mood: agent-based simulations of online chats**

By: Tadic, Bosiljka; Suvakov, Milovan
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P10014 Published: OCT 2013

View Abstract

Times Cited: 3
(from Web of Science Core Collection)

Usage Count

9. **THE ROLE OF TASTE AFFINITY IN AGENT-BASED MODELS FOR SOCIAL RECOMMENDATION**

By: Cimini, Giulio; Zeng, An; Medo, Matus; et al.
ADVANCES IN COMPLEX SYSTEMS Volume: 16 Issue: 4-5 Article Number: 1350009 Published: AUG 2013

View Abstract

Times Cited: 2
(from Web of Science Core Collection)

Usage Count

10. **ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES**

By: Sienkiewicz, Julian; Skowron, Marcin; Paltoglou, Georgios; et al.
ADVANCES IN COMPLEX SYSTEMS Volume: 16 Issue: 4-5 Article Number: 1350026 Published: AUG 2013

View Abstract

Times Cited: 6
(from Web of Science Core Collection)

Usage Count

11. **Scaling exponents and phase separation in a nonlinear network model inspired by the gravitational accretion**

By: Bogojevic, Aleksandar; Balaz, Antun; Belic, Aleksandar
PHYSICA D-NONLINEAR PHENOMENA Volume: 255 Pages: 52-57 Published: JUL 15 2013

Full Text from Publisher | View Abstract

Times Cited: 1
(from Web of Science Core Collection)

Usage Count

12. **AN OPINION SPREADING MODEL IN SIGNED NETWORKS**

By: Li, Wei; Fan, Pengyi; Li, Pei; et al.
MODERN PHYSICS LETTERS B Volume: 27 Issue: 12 Article Number: 1350084 Published: MAY 20 2013

Full Text from Publisher | View Abstract

Times Cited: 4
(from Web of Science Core Collection)

Usage Count

13. **Statistical Analysis of Emotions and Opinions at Digg Website**

By: Pohorecki, P.; Sienkiewicz, J.; Mitrovic, M.; et al.

Times Cited: 4
(from Web of Science Core Collection)

Conference: 6th Polish Symposium of Physics in Economy and Social Sciences (FENS) Location: Univ Gdansk, Fac Math, Phys & Informat, Gdansk, POLAND Date: APR 19-21, 2012
ACTA PHYSICA POLONICA A Volume: 123 Issue: 3 Pages: 604-614 Published: MAR 2013
View Abstract

Usage Count

14. **Transition due to preferential cluster growth of collective emotions in online communities**
By: Chmiel, Anna; Holyst, Janusz A.
PHYSICAL REVIEW E Volume: 87 Issue: 2 Article Number: 022808 Published: FEB 15 2013
View Abstract

Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

15. **How the online social networks are used: dialogues-based structure of MySpace**
By: Suvakov, Milovan; Mitrovic, Marija; Gligorijevic, Vladimir; et al.
JOURNAL OF THE ROYAL SOCIETY INTERFACE Volume: 10 Issue: 79 Article Number: 20120819 Published: FEB 6 2013
View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*
Usage Count

16. **Entropy growth in emotional online dialogues**
By: Sienkiewicz, J.; Skowron, M.; Paltoglou, G.; et al.
Book Group Author(s): IOP
Conference: 1st International Conference on Mathematical Modelling in Physical Sciences (IC-MSQUARE) Location: Budapest, HUNGARY Date: SEP 03-07, 2012
IC-MSQUARE 2012: INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELLING IN PHYSICAL SCIENCES Book Series: Journal of Physics Conference Series Volume: 410 Article Number: 012096 Published: 2013
Full Text from Publisher View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

17. **Network analysis improves interpretation of affective physiological data**
By: Hulovatyy, Yuriy; D'Mello, Sidney; Calvo, Rafael A.; et al.
Edited by: Yetongnon, K; Dipanda, A; Chbeir, R
Conference: 9th International Conference on Signal-Image Technology and Internet-Based Systems (SITIS) Location: Kyoto, JAPAN Date: DEC 02-05, 2013
2013 INTERNATIONAL CONFERENCE ON SIGNAL-IMAGE TECHNOLOGY & INTERNET-BASED SYSTEMS (SITIS) Pages: 465-472 Published: 2013
View Abstract

Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

18. **Evolutionary design of non-frustrated networks of phase-repulsive oscillators**
By: Levnajic, Zoran
SCIENTIFIC REPORTS Volume: 2 Article Number: 967 Published: DEC 14 2012
Full Text from Publisher View Abstract

Times Cited: 8 *(from Web of Science Core Collection)*
Usage Count

19. **Two-Year Study of Emotion and Communication Patterns in a Highly Polarized Political Discussion Forum**
By: Sobkowicz, Pawel; Sobkowicz, Antoni
SOCIAL SCIENCE COMPUTER REVIEW Volume: 30 Issue: 4 Pages: 448-469 Published: NOV 2012
View Abstract

Times Cited: 16 *(from Web of Science Core Collection)*
Usage Count

20. **Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling**

Times Cited: 10 *(from Web of Science Core Collection)*

By: Mitrovic, Marija; Tadic, Bosiljka
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 391 Issue: 21 Pages: 5264-5278 Published: NOV 1 2012

Full Text from Publisher | View Abstract

Usage Count

21. **Opinion mining in social media: Modeling, simulating, and forecasting political opinions in the web**

By: Sobkowicz, Pawel; Kaschesky, Michael; Bouchard, Guillaume
GOVERNMENT INFORMATION QUARTERLY Volume: 29 Issue: 4 Pages: 470-479 Published: OCT 2012

Full Text from Publisher | View Abstract

Times Cited: 39 *(from Web of Science Core Collection)*

Usage Count

22. **PROPERTIES OF SOCIAL NETWORK IN AN INTERNET POLITICAL DISCUSSION FORUM**

By: Sobkowicz, Pawel; Sobkowicz, Antoni
Conference: European Conference on Complex Systems (ECCS) / Cultural and Opinion Dynamics - Modeling, Experiments and Challenges for the Future (CODYM) Location: Vienna, AUSTRIA Date: SEP 12-16, 2011
ADVANCES IN COMPLEX SYSTEMS Volume: 15 Issue: 6 Article Number: 1250062 Published: AUG 2012

View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

23. **Understanding Crowd-Powered Search Groups: A Social Network Perspective**

By: Zhang, Qingpeng; Wang, Fei-Yue; Zeng, Daniel; et al.
PLOS ONE Volume: 7 Issue: 6 Article Number: e39749 Published: JUN 27 2012

Full Text from Publisher | View Abstract

Times Cited: 3 *(from Web of Science Core Collection)*

Usage Count

24. **MODELING OF INTERNET INFLUENCE ON GROUP EMOTION**

By: Czaplicka, Agnieszka; Holyst, Janusz A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C Volume: 23 Issue: 3 Article Number: 1250020 Published: MAR 2012

Full Text from Publisher | View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*

Usage Count

25. **Emotional Analysis of Blogs and Forums Data**

By: Weronski, P.; Sienkiewicz, J.; Paltoglou, G.; et al.
Conference: 5th FENS Symposium on Physics in Economics and Social Sciences Location: Warsaw Univ Life Sci-SGGW, Warsaw, POLAND Date: NOV 25-27, 2010
Sponsor(s): Szkola Glowna Gospodarstwa Wiejskiego; Polskie Towarzystwo Fizyczne, sekcja Fizyka Ekonomii Naukach Spolecznych
ACTA PHYSICA POLONICA A Volume: 121 Issue: 2 Pages: B128-B132 Published: FEB 2012

View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*

Usage Count

26. **Sentiment Strength Detection for the Social Web**

By: Thelwall, Mike; Buckley, Kevan; Paltoglou, Georgios
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 63 Issue: 1 Pages: 163-173 Published: JAN 2012

View Abstract

Times Cited: 167 *(from Web of Science Core Collection)*

Highly Cited Paper

Usage Count

27. **The blogosphere as an excitable social medium: Richter's and Omori's Law in media coverage**

By: Klimek, Peter; Bayer, Werner; Thurner, Stefan
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 390 Issue: 21-22 Pages: 3870-3875 Published: OCT 15 2011

Times Cited: 7 *(from Web of Science Core Collection)*

Usage Count

Full Text from Publisher | View Abstract

28. **Negative emotions boost user activity at BBC forum**
By: Chmiel, Anna; Sobkowicz, Pawel; Sienkiewicz, Julian; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 390 Issue: 16 Pages: 2936-2944
Published: AUG 15 2011
Full Text from Publisher | View Abstract

Times Cited: 50 *(from Web of Science Core Collection)*
Usage Count

29. **Collective Emotions Online and Their Influence on Community Life**
By: Chmiel, Anna; Sienkiewicz, Julian; Thelwall, Mike; et al.
PLOS ONE Volume: 6 Issue: 7 Article Number: e22207
Published: JUL 27 2011
Full Text from Publisher | View Abstract

Times Cited: 44 *(from Web of Science Core Collection)*
Usage Count

30. **Blogging on the sidelines**
By: Francl, Michelle
NATURE CHEMISTRY Volume: 3 Issue: 3 Pages: 183-184
Published: MAR 2011

Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

31. **Quantitative analysis of bloggers' collective behavior powered by emotions**
By: Mitrovic, Marija; Paltoglou, Georgios; Tadic, Bosiljka
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P02005 Published: FEB 2011
View Abstract

Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: **Publication Date -- newest to oldest**
Show: **50 per page**

Page 1 of 1

31 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 1

(from Web of Science Core Collection)

For: Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions ...Less

Times Cited Counts

1 in All Databases

1 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS CONDENSED MATTER (1)
- PHYSICS APPLIED (1)
- NANOSCIENCE NANOTECHNOLOGY (1)
- MATERIALS SCIENCE MULTIDISCIPLINARY (1)
- CHEMISTRY PHYSICAL (1)

more options / values...

Refine

Document Types

- ARTICLE (1)

Refine

Research Areas

Authors

Group Authors

Editors

Sort by: Publication Date -- newest to oldest Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **Bond Elasticity Controls Molecular Recognition Specificity in Antibody-Antigen Binding**

By: Alemany, Anna; Sanvicens, Nuria; de Lorenzo, Sara; et al.
NANO LETTERS Volume: 13 Issue: 11 Pages: 5197-5202
Published: NOV 2013

View Abstract

Times Cited: 2
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest Page 1 of 1

Show: 10 per page

1 records matched your query of the 37,663,056 in the data limits you selected.

- Source Titles
- Book Series Titles
- Conference Titles
- Publication Years
- Organizations-Enhanced
- Funding Agencies
- Languages
- Countries/Territories
- ESI Top Papers
- Open Access

For advanced refine options, use

Analyze Results

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 5
(from Web of Science Core Collection)

For: Correlation Patterns in Gene Expressions along the Cell Cycle of Yeast ...Less

Times Cited Counts

5 in All Databases

5 in Web of Science Core Collection

1 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (2)
- PHYSICS MATHEMATICAL (1)
- MULTIDISCIPLINARY SCIENCES (1)
- MATHEMATICS APPLIED (1)
- ENGINEERING ELECTRICAL ELECTRONIC (1)

more options / values...

Refine

Document Types

- ARTICLE (4)
- PROCEEDINGS PAPER (1)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **Algebraic Topology of Multi-Brain Connectivity Networks Reveals Dissimilarity in Functional Patterns during Spoken Communications**

By: Tadic, Bosiljka; Andjelkovic, Miroslav; Boshkoska, Biljana Mileva; et al.
PLOS ONE Volume: 11 Issue: 11 Article Number: e0166787 Published: NOV 23 2016

Full Text from Publisher | View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

2. **Directed Networks of Online Chats: Content-Based Linking and Social Structure**

By: Gligorijevic, Vladimir; Skowron, Marcin; Tadic, Bosiljka
Edited by: Yetongnon, K; Chbeir, R; Dipanda, A; et al.
Conference: 8th International Conference on Signal Image Technology and Internet Based Systems (SITIS) Location: Univ Bourgogne, Sorrento, ITALY Date: NOV 25-29, 2012
Sponsor(s): IEEE Comp Soc; INCAR
8TH INTERNATIONAL CONFERENCE ON SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS (SITIS 2012)
Pages: 725-730 Published: 2012

View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

3. **Networks of Motifs from Sequences of Symbols**

By: Sinatra, Roberta; Condorelli, Daniele; Latora, Vito
PHYSICAL REVIEW LETTERS Volume: 105 Issue: 17 Article Number: 178702 Published: OCT 19 2010

View Abstract

Times Cited: 18 *(from Web of Science Core Collection)*

Usage Count

4. **Distribution and regulation of stochasticity and plasticity in Saccharomyces cerevisiae**

By: Dar, R. D.; Karig, D. K.; Cooke, J. F.; et al.
CHAOS Volume: 20 Issue: 3 Article Number: 037106 Published: SEP 2010

View Abstract

Times Cited: 5 *(from Web of Science Core Collection)*

Usage Count

5. **Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions**

By: Zivkovic, J.; Mitrovic, M.; Janssen, L.; et al.
EPL Volume: 89 Issue: 6 Article Number: 68004 Published: MAR 2010

View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

Sort by: Publication Date -- newest to oldest
Show: 10 per page

Page 1 of 1

5 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 8
(from Web of Science Core Collection)

For: Jamming and correlation patterns in traffic of information on sparse modular networks ...Less

Times Cited Counts

8 in All Databases

8 in Web of Science Core Collection

1 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for...

Web of Science Categories

- PHYSICS MATHEMATICAL (4)
- PHYSICS FLUIDS PLASMAS (4)
- PHYSICS MULTIDISCIPLINARY (3)
- MULTIDISCIPLINARY SCIENCES (1)

more options / values...

Refine

Document Types

- ARTICLE (8)

Refine

Research Areas

Authors

Group Authors

Editors

Source Titles

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **Algebraic Topology of Multi-Brain Connectivity Networks Reveals Dissimilarity in Functional Patterns during Spoken Communications**

By: Tadic, Bosiljka; Andjelkovic, Miroslav; Boshkoska, Biljana Mileva; et al.
PLOS ONE Volume: 11 Issue: 11 Article Number: e0166787 Published: NOV 23 2016

Full Text from Publisher | View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

2. **Position dependence of the particle density in a double-chain section of a linear network in a totally asymmetric simple exclusion process**

By: Pesheva, N. C.; Brankov, J. G.
PHYSICAL REVIEW E Volume: 87 Issue: 6 Article Number: 062116 Published: JUN 12 2013

View Abstract

Times Cited: 4 *(from Web of Science Core Collection)*

Usage Count

3. **Efficient routing on multilayered communication networks**

By: Zhou, Jie; Yan, Gang; Lai, Choy-Heng
EPL Volume: 102 Issue: 2 Article Number: 28002 Published: APR 2013

View Abstract

Times Cited: 14 *(from Web of Science Core Collection)*

Usage Count

4. **Efficient routing strategies in scale-free networks with limited bandwidth**

By: Tang, Ming; Zhou, Tao
PHYSICAL REVIEW E Volume: 84 Issue: 2 Article Number: 026116 Part: 2 Published: AUG 22 2011

View Abstract

Times Cited: 35 *(from Web of Science Core Collection)*

Usage Count

5. **Transportation dynamics on networks of mobile agents**

By: Yang, Han-Xin; Wang, Wen-Xu; Xie, Yan-Bo; et al.
PHYSICAL REVIEW E Volume: 83 Issue: 1 Article Number: 016102 Part: 2 Published: JAN 11 2011

View Abstract

Times Cited: 28 *(from Web of Science Core Collection)*

Usage Count

6. **Personal recommendation via unequal resource allocation on bipartite networks**

By: Liu, Run-Ran; Liu, Jian-Guo; Jia, Chun-Xiao; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 389 Issue: 16 Pages: 3282-3289 Published: AUG 15 2010

Full Text from Publisher | View Abstract

Times Cited: 8 *(from Web of Science Core Collection)*

Usage Count

Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

7. **Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions**

By: Zivkovic, J.; Mitrovic, M.; Janssen, L.; et al.
EPL Volume: 89 Issue: 6 Article Number: 68004 Published: MAR 2010

View Abstract

Times Cited: 1
(from Web of Science Core Collection)

Usage Count

8. **Self-adjusting routing schemes for time-varying traffic in scale-free networks**

By: Tang, Ming; Liu, Zonghua; Liang, Xiaoming; et al.
PHYSICAL REVIEW E Volume: 80 Issue: 2 Article Number: 026114 Part: 2 Published: AUG 2009

View Abstract

Times Cited: 50
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 10 per page

Page 1 of 1

8 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 38
(from Web of Science Core Collection)

For: Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities ...More

Times Cited Counts

39 in All Databases
39 in Web of Science Core Collection
6 in BIOSIS Citation Index
1 in Chinese Science Citation Database
0 data sets in Data Citation Index
0 publication in Data Citation Index
0 in Russian Science Citation Index
0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS MULTIDISCIPLINARY (12)
- PHYSICS MATHEMATICAL (6)
- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (5)
- ENGINEERING ELECTRICAL ELECTRONIC (4)
- COMPUTER SCIENCE THEORY METHODS (4)

more options / values...

Refine

Document Types

- ARTICLE (34)
- PROCEEDINGS PAPER (3)
- REVIEW (1)

more options / values...

Refine

Research Areas

Authors

Sort by: Publication Date -- newest to oldest | Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results
Create Citation Report

1. **Spectral reconstruction of protein contact networks**
By: Maiorino, Enrico; Rizzi, Antonello; Sadeghian, Alireza; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 471 Pages: 804-817 Published: APR 1 2017
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

2. **EIGENVECTOR-BASED CENTRALITY MEASURES FOR TEMPORAL NETWORKS**
By: Taylor, Dane; Myers, Sean A.; Clauset, Aaron; et al.
MULTISCALE MODELING & SIMULATION Volume: 15 Issue: 1 Pages: 537-574 Published: 2017
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

3. **Algebraic Topology of Multi-Brain Connectivity Networks Reveals Dissimilarity in Functional Patterns during Spoken Communications**
By: Tadic, Bosiljka; Andjelkovic, Miroslav; Boshkoska, Biljana Mileva; et al.
PLOS ONE Volume: 11 Issue: 11 Article Number: e0166787 Published: NOV 23 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

4. **Centrality measures for networks with community structure**
By: Gupta, Naveen; Singh, Anurag; Cherifi, Hocine
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 452 Pages: 46-59 Published: JUN 15 2016
Full Text from Publisher | View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

5. **Semantic Concept Co-Occurrence Patterns for Image Annotation and Retrieval**
By: Feng, Linan; Bhanu, Bir
IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE Volume: 38 Issue: 4 Pages: 785-799 Published: APR 2016
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

6. **A novel multiobjective particle swarm optimization algorithm for signed network community detection**
By: Li, Zhaoxing; He, Lile; Li, Yunrui
APPLIED INTELLIGENCE Volume: 44 Issue: 3 Pages: 621-633 Published: APR 2016
View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

Group Authors
Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
Open Access

For advanced refine options, use

Analyze Results

7. **Localized eigenvectors of the non-backtracking matrix**
By: Kawamoto, Tatsuro
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: 023404 Published: FEB 2016
View Abstract
Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

8. **A generative model for protein contact networks**
By: Livi, Lorenzo; Maiorino, Enrico; Giuliani, Alessandro; et al.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS Volume: 34 Issue: 7 Pages: 1441-1454 Published: 2016
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

9. **Analysis of heat kernel highlights the strongly modular and heat-preserving structure of proteins**
By: Livi, Lorenzo; Maiorino, Enrico; Pinna, Andrea; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 441 Pages: 199-214 Published: JAN 1 2016
Full Text from Publisher View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

10. **Hierarchical sequencing of online social graphs**
By: Andjelkovic, Miroslav; Tadic, Bosiljka; Maletic, Slobodan; et al.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 436 Pages: 582-595 Published: OCT 15 2015
Full Text from Publisher View Abstract
Times Cited: 5 *(from Web of Science Core Collection)*
Usage Count

11. **Greedy discrete particle swarm optimization for large-scale social network clustering**
By: Cai, Qing; Gong, Maoguo; Ma, Lijia; et al.
INFORMATION SCIENCES Volume: 316 Pages: 503-516 Published: SEP 20 2015
Full Text from Publisher View Abstract
Times Cited: 13 *(from Web of Science Core Collection)*
Usage Count

12. **A hybrid artificial immune network for detecting communities in complex networks**
By: Karimi-Majd, Amir-Mohsen; Fathian, Mohammad; Amiri, Babak
COMPUTING Volume: 97 Issue: 5 Pages: 483-507 Published: MAY 2015
View Abstract
Times Cited: 7 *(from Web of Science Core Collection)*
Usage Count

13. **Understanding Dynamic Social Grouping Behaviors of Pedestrians**
By: Feng, Linan; Bhanu, Bir
IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING Volume: 9 Issue: 2 Pages: 317-329 Published: MAR 2015
View Abstract
Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

14. **Building Dynamic Correlation Network for Financial Asset Returns**
By: Isogai, Takashi
Book Author(s): Chbeir, R
Edited by: Yetongnon, K; Dipanda, A
Conference: 2015 11th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS) Location: University of Bourgogne, the University of Milan, Bangkok, THAILAND Date: NOV 23-27, 2015
Sponsor(s): Kasetsart University in Bangkok; LE2I (Laboratoire Electronique, Image et Informatique); University of Bourgogne; UKNOW; Center of Excellence for Unified Knowledge and Language Engineering at Kasetsart University.; IEEE Computer
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

Society; IEEE Computer Society Technical & Conference Activities Board
2015 11TH INTERNATIONAL CONFERENCE ON SIGNAL-IMAGE TECHNOLOGY & INTERNET-BASED SYSTEMS (SITIS) Pages: 398-405 Published: 2015

View Abstract

15. **Ensemble method: Community detection based on game theory**

By: Zhang, Xia; Xia, Zhengyou; Xu, Shengwu; et al.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 28 Issue: 30 Article Number: 1450211 Published: DEC 10 2014

Full Text from Publisher | View Abstract

Times Cited: 0 *(from Web of Science Core Collection)*

Usage Count

16. **Graph Wavelets for Multiscale Community Mining**

By: Tremblay, Nicolas; Borgnat, Pierre
IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 62 Issue: 20 Pages: 5227-5239 Published: OCT 15 2014

View Abstract

Times Cited: 16 *(from Web of Science Core Collection)*

Usage Count

17. **Discrete particle swarm optimization for identifying community structures in signed social networks**

By: Cai, Qing; Gong, Maoguo; Shen, Bo; et al.
NEURAL NETWORKS Volume: 58 Special Issue: SI Pages: 4-13 Published: OCT 2014

Full Text from Publisher | View Abstract

Times Cited: 15 *(from Web of Science Core Collection)*

Usage Count

18. **Consensus formation on a simplicial complex of opinions**

By: Maletic, Slobodan; Rajkovic, Milan
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 397 Pages: 111-120 Published: MAR 1 2014

Full Text from Publisher | View Abstract

Times Cited: 6 *(from Web of Science Core Collection)*

Usage Count

19. **Complex Network Clustering by Multiobjective Discrete Particle Swarm Optimization Based on Decomposition**

By: Gong, Maoguo; Cai, Qing; Chen, Xiaowei; et al.
IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION Volume: 18 Issue: 1 Special Issue: SI Pages: 82-97 Published: FEB 2014

View Abstract

Times Cited: 63 *(from Web of Science Core Collection)*

Usage Count

20. **Nonparametric resampling of random walks for spectral network clustering**

By: Fallani, Fabrizio De Vico; Nicosia, Vincenzo; Latora, Vito; et al.
PHYSICAL REVIEW E Volume: 89 Issue: 1 Article Number: 012802 Published: JAN 9 2014

View Abstract

Times Cited: 8 *(from Web of Science Core Collection)*

Usage Count

21. **Extremal Optimization-based Semi-Supervised Algorithm with Conflict Pairwise Constraints for Community Detection**

By: Li, Lei; Du, Mei; Liu, Guanfeng; et al.
Edited by: Wu, X; Ester, M; Xu, G
Conference: IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) Location: Beijing, PEOPLES R CHINA Date: AUG 17-20, 2014
Sponsor(s): IEEE; Assoc Comp Machinery; Assoc Comp Machinery SIGKDD; IEEE Comp Soc; IEEE TCDE; Springer; Tencent Internet; Soc Inst; Venustech Informat Technol Co Ltd
2014 PROCEEDINGS OF THE IEEE/ACM INTERNATIONAL

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

CONFERENCE ON ADVANCES IN SOCIAL NETWORKS ANALYSIS AND MINING (ASONAM 2014) Pages: 180-187 Published: 2014

View Abstract

22. **Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks**

By: Tadic, Bosiljka; Gligorijevic, Vladimir; Mitrovic, Marija; et al.
ENTROPY Volume: 15 Issue: 12 Pages: 5084-5120 Published: DEC 2013

Full Text from Publisher | View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

23. **A Visual Analysis Approach for Community Detection of Multi-Context Mobile Social Networks**

By: Ma, Yu-Xin; Xu, Jia-Yi; Peng, Di-Chao; et al.
JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY Volume: 28 Issue: 5 Pages: 797-809 Published: SEP 2013

View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*

Usage Count

24. **Finding Communities in Credit Networks**

By: Bargigli, Leonardo; Gallegati, Mauro
ECONOMICS-THE OPEN ACCESS OPEN-ASSESSMENT E-JOURNAL Volume: 7 Article Number: 201317 Published: APR 18 2013

Full Text from Publisher | View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*

Usage Count

25. **How the online social networks are used: dialogues-based structure of MySpace**

By: Suvakov, Milovan; Mitrovic, Marija; Gligorijevic, Vladimir; et al.
JOURNAL OF THE ROYAL SOCIETY INTERFACE Volume: 10 Issue: 79 Article Number: 20120819 Published: FEB 6 2013

View Abstract

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

26. **Hydrogen bond network topology in liquid water and methanol: a graph theory approach**

By: Bako, Imre; Bencsura, Akos; Hermannson, Kersti; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 15 Issue: 36 Pages: 15163-15171 Published: 2013

View Abstract

Times Cited: 14 *(from Web of Science Core Collection)*

Usage Count

27. **Dynamics of bloggers' communities: Bipartite networks from empirical data and agent-based modeling**

By: Mitrovic, Marija; Tadic, Bosiljka
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 391 Issue: 21 Pages: 5264-5278 Published: NOV 1 2012

Full Text from Publisher | View Abstract

Times Cited: 10 *(from Web of Science Core Collection)*

Usage Count

28. **Understanding Crowd-Powered Search Groups: A Social Network Perspective**

By: Zhang, Qingpeng; Wang, Fei-Yue; Zeng, Daniel; et al.
PLOS ONE Volume: 7 Issue: 6 Article Number: e39749 Published: JUN 27 2012

Full Text from Publisher | View Abstract

Times Cited: 3 *(from Web of Science Core Collection)*

Usage Count

29. **Random digraphs with given expected degree sequences: A model for economic networks**

By: Bargigli, Leonardo; Gallegati, Mauro
JOURNAL OF ECONOMIC BEHAVIOR & ORGANIZATION Volume: 78 Issue: 3 Pages: 396-411 Published: MAY 2011

Times Cited: 11 *(from Web of Science Core Collection)*

Usage Count

Full Text from Publisher | View Abstract

30. **Spectra of modular and small-world matrices**
By: Kuehn, Reimer; van Mourik, Jort
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL Volume: 44 Issue: 16 Article Number: 165205 Published: APR 22 2011
View Abstract

Times Cited: 16 *(from Web of Science Core Collection)*
Usage Count

31. EN **Quantitative analysis of bloggers' collective behavior powered by emotions**
By: Mitrovic, Marija; Paltoglou, Georgios; Tadic, Bosiljka
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P02005 Published: FEB 2011
View Abstract

Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

32. **A Method for Finding Groups of Related Herbs in Traditional Chinese Medicine**
By: Wang, Lidong; Zhang, Yin; Wei, Baogang; et al.
Book Author(s): Wang, JY
Edited by: Tang, J; King, I; Chen, L
Conference: 7th International Conference on Advanced Data Mining and Applications Location: Beijing, PEOPLES R CHINA Date: DEC 17-19, 2011
Sponsor(s): IBM; China Samsung Telecom R&D Ctr; Tsinghua Univ
ADVANCED DATA MINING AND APPLICATIONS, PT I Book Series: Lecture Notes in Artificial Intelligence Volume: 7120 Pages: 55-+ Published: 2011
View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

33. **Modelling conflicts with cluster dynamics in networks**
By: Tadic, Bosiljka; Rodgers, G. J.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 389 Issue: 23 Pages: 5495-5502 Published: DEC 1 2010
Full Text from Publisher | View Abstract

Times Cited: 2 *(from Web of Science Core Collection)*
Usage Count

34. EN **Networks and emotion-driven user communities at popular blogs**
By: Mitrovic, M.; Paltoglou, G.; Tadic, B.
EUROPEAN PHYSICAL JOURNAL B Volume: 77 Issue: 4 Pages: 597-609 Published: OCT 2010
View Abstract

Times Cited: 32 *(from Web of Science Core Collection)*
Usage Count

35. **On the distributions of Laplacian eigenvalues versus node degrees in complex networks**
By: Zhan, Choujun; Chen, Guanrong; Yeung, Lam F.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 389 Issue: 8 Pages: 1779-1788 Published: APR 15 2010
Full Text from Publisher | View Abstract

Times Cited: 19 *(from Web of Science Core Collection)*
Usage Count

36. EN **Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions**
By: Zivkovic, J.; Mitrovic, M.; Janssen, L.; et al.
EPL Volume: 89 Issue: 6 Article Number: 68004 Published: MAR 2010
View Abstract

Times Cited: 1 *(from Web of Science Core Collection)*
Usage Count

37. **Community detection in graphs**

Times Cited: 2,501 *(from Web of Science Core*

By: Fortunato, Santo
PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 486 Issue: 3-5 Pages: 75-174 Published: FEB 2010

Full Text from Publisher | View Abstract

Collection)

Usage Count

38. **Bloggers behavior and emergent communities in Blog space**

By: Mitrovic, M.; Tadic, B.
EUROPEAN PHYSICAL JOURNAL B Volume: 73 Issue: 2 Pages: 293-301 Published: JAN 2010

View Abstract

Times Cited: 26
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: **Publication Date -- newest to oldest**
Show: **50 per page**

Page 1 of 1

38 records matched your query of the 37,663,197 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Citing Articles: 7
(from Web of Science Core Collection)

For: Search of weighted subgraphs on complex networks with maximum likelihood methods ...More

Times Cited Counts

8 in All Databases

8 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

View Additional Times Cited Counts

Refine Results

Search within results for ...

Web of Science Categories

- PHYSICS MATHEMATICAL (2)
- PHYSICS CONDENSED MATTER (2)
- ENGINEERING ELECTRICAL ELECTRONIC (1)
- COMPUTER SCIENCE THEORY METHODS (1)
- COMPUTER SCIENCE INFORMATION SYSTEMS (1)

more options / values...

Refine

Document Types

- ARTICLE (5)
- PROCEEDINGS PAPER (2)

more options / values...

Refine

Research Areas

Authors

Group Authors

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page | Save to EndNote online | Add to Marked List

Analyze Results

Create Citation Report

1. **Quantitative analysis of bloggers' collective behavior powered by emotions**
By: Mitrovic, Marija; Paltoglou, Georgios; Tadic, Bosiljka
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT Article Number: P02005 Published: FEB 2011
View Abstract
Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

2. **Networks and emotion-driven user communities at popular blogs**
By: Mitrovic, M.; Paltoglou, G.; Tadic, B.
EUROPEAN PHYSICAL JOURNAL B Volume: 77 Issue: 4 Pages: 597-609 Published: OCT 2010
View Abstract
Times Cited: 32 *(from Web of Science Core Collection)*
Usage Count

3. **Bloggers behavior and emergent communities in Blog space**
By: Mitrovic, M.; Tadic, B.
EUROPEAN PHYSICAL JOURNAL B Volume: 73 Issue: 2 Pages: 293-301 Published: JAN 2010
View Abstract
Times Cited: 26 *(from Web of Science Core Collection)*
Usage Count

4. **Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities**
By: Mitrovic, Marija; Tadic, Bosiljka
PHYSICAL REVIEW E Volume: 80 Issue: 2 Article Number: 026123 Published: AUG 2009
View Abstract
Times Cited: 39 *(from Web of Science Core Collection)*
Usage Count

5. **The weighted random graph model**
By: Garlaschelli, Diego
NEW JOURNAL OF PHYSICS Volume: 11 Article Number: 073005 Published: JUL 3 2009
Full Text from Publisher | View Abstract
Times Cited: 18 *(from Web of Science Core Collection)*
Usage Count

6. **MIXING PATTERNS AND COMMUNITIES ON BIPARTITE GRAPHS ON WEB-BASED SOCIAL INTERACTIONS**
By: Grujic, Jelena; Mitrovic, Marija; Tadic, Bosiljka
Book Group Author(s): IEEE
Conference: 16th International Conference on Digital Signal Processing Location: Santorini, GREECE Date: JUL 05-07, 2009
2009 16TH INTERNATIONAL CONFERENCE ON DIGITAL SIGNAL PROCESSING, VOLS 1 AND 2 Pages: 259-+ Published: 2009
View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*
Usage Count

Editors
Source Titles
Book Series Titles
Conference Titles
Publication Years
Organizations-Enhanced
Funding Agencies
Languages
Countries/Territories
ESI Top Papers
Open Access

For advanced refine options, use

Analyze Results

7. **Finding Community Structure Based on Subgraph Similarity**

By: Xiang, Biao; Chen, En-Hong; Zhou, Tao
Edited by: Fortunato, S; Mangioni, G; Menezes, R; et al.
Conference: International Workshop on Complex Networks (CompleNet 2009) Location: Univ Catania, Catania, ITALY Date: MAY 26-27, 2009
COMPLEX NETWORKS Book Series: Studies in Computational Intelligence Volume: 207 Pages: 73-+ Published: 2009

View Abstract

Times Cited: 10
(from Web of Science Core Collection)

Usage Count

Select Page | Save to EndNote online | Add to Marked List

Sort by: Publication Date -- newest to oldest
Show: 10 per page

Page 1 of 1

7 records matched your query of the 37,663,056 in the data limits you selected.

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK

Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОҠ РАЗВОЈА
БЕОГРАД
Немањина 22-26

ИЗВЕШТАЈ РУКОВОДИОЦА

О РАДУ - ИСТРАЖИВАЧА ДОКТОРАНТА

укљученог на пројекат Министарства

I. ОПШТИ ПОДАЦИ

1. Име и презиме докторанта: Јелена Смиљанић

2. Институт - факултет (НИО запослења): Институт за физику у Београду

3. Ментор

- име и презиме Марија Митровић Данкулов

- звање ... научни сарадник

-(НИО запослења ментора) Институт за физику у Београду

4. Ментор овог докторанта је од 01.08.2013.

5. Пројекат на коме је докторант ангажован

- назив пројекта Моделирање и нумеричке симулације сложених вишечестичних система

- евиденциони број пројекта ОН171017

II. АНГАЖОВАЊЕ ДОКТОРАНТА – ИСТРАЖИВАЧА ДОКТОРАНТА

6. Врста ангажовања докторанта у оквиру научноистраживачког рада (написати конкретно шта је радио и да ли има публиковане радове/где и повезаност послова са докторатом)

Јелена Смиљанић се на пројекту ОН171017 бави анализом структурних и динамичких особина реалних социјалних мрежа. У претходном периоду њен рад се односио на проучавање структуре и динамике мрежа у социјалним групама чија је динамика условљена учешћем чланова групе у њеним активностима, догађајима. Конкретно, колегеница је одредила тополошке карактеристике значајне за структуру социјалних мрежа у овим системима, а затим анализирала њихову еволуцију са порастом ангажовања чланова групе у њеним активностима, као и

њихову зависност од величине појединачних догађаја. Ово је део доктората колегенице, чија се одбрана очекује у 2017. години.

Радови докторанткиње објављени у научним часописима међународног значаја:

[M22] J. Smiljanić and I. E. Stanković: "Efficient Routing on Small Complex Networks Without Buffers", Physica A: Stat. Mech. App. **392**, 2294 (2013).

[M21a] J. Smiljanić, M. Žeželj, V. Milanović, J. Radovanović, and I. Stanković: "MATLAB-based program for optimization of quantum cascade laser active region parameters and calculation of output characteristics in magnetic field", Comput. Phys. Commun. **185,** 998-1006 (2014).

[M21] J. Smiljanić, A. Chatterjee, T. Kauppinen and M. Mitrović Dankulov: "A Theoretical Model for the Associative Nature of Conference Participation", PLoS ONE **11,** e0148528 (2016).

[M21] J. Smiljanić and M. Mitrović Dankulov: "Associative nature of event participation dynamics: a network theory approach", PLoS ONE (in press), (2017).

Зборници водећег међународног значаја штампани у целини:

[M13] I.E. Stanković, M. Žeželj, J. Smiljanić, and A. Belić, "Modeling of Disaster Spreading Dynamics", in M. Dulea et al. (Eds.), High-Performance Computing Infrastructure for South East Europe's Research Communities, Springer Series in Modeling and Optimization in Science and Technologies 2, 31-42, (2014).

Радови у националним часописима:

[M53] J. Smiljanić, M. Žeželj, I. E. Stanković: "Ispitivanje strategija za rutiranje u malim kompleksnim mrežama", Telekomunikacije, vol. 10, 54-63 (2012), Ratel.

Зборници међународних научних скупова штампани у изводу:

[M34] I. Stanković and J. Smiljanić: "Structure of complex networks for minimizing traffic congestion and cost", DPG 2012 Conference, Berlin, Germany.

[M34] Igor Stanković, Milan Žeželj, and Jelena Smiljanić, "Numerical Simulations of the Structure and Transport Properties of the Complex Networks", HP-SEE User Forum 2012, Belgrade, Serbia.

[M34] J. Smiljanić and M. M. Dankulov: "Conference Attendance Patterns", The 19th Symposium on Condensed Matter Physics - SFKM (2015), 2015, Belgrade, Serbia.

[M34] J. Smiljanić and M. M. Dankulov: "Associative nature of conference participation", The 41st Conference of the Middle European Cooperation in Statistical Physics - MECO (2016), 2016, Vienna, Austria.

Зборници националих научних скупова штампани у изводу:

[M64] J. Smiljanić and P. Ivaniš: "Attacks on the RSA cryptosystem using integer factorization", TELFOR 2011, Belgrade, Serbia.

[M64] J. Smiljanić and M. M. Dankulov: "Associative nature of conference participation dynamics: an empirical analysis and modeling", Fourth conference on Information theory and complex systems - TINKOS (2016), 2016, Belgrade, Serbia.

7. Да ли је докторант био ангажован на другим пословима у тој НИО:

а) не

б) да (навести на којим):

8. Степен реализације плана и програма рада на пројекту (образложење)

Колегиница је у потпуности реализовала све задатке.

9. Планови и предлози за даље ангажовање докторанта:

а) наставити/продужити ангажовање...

б) не наставити/прекинути (образложите у вези са оценом датом у оквиру тачке 10) овог извештаја):

в) остало

10. Изнесите своје предлоге за побољшање услова и резултата рада докторанта чији сте ментор:

Не очекују се никакви проблеми раду докторанткиње у следећем периоду.

<u>У прилогу овог извештаја достављам документацију која чини његов ОБАВЕЗНИ саставни део</u>:

1) Потврде са факултета о реализованим обавезама на докторским студијама (заокружити прилог а-в који се доставља)

а) о последњем овереном и уписаном семестру,

б) о положеним испитима и укупном просечном оценом на докторским студијама, или

в) потврду факултета о пријављеној/ одобреној теми доктората и реализацији.

2) оверену копију радне књижице (од 1-7 стране);

3) копија М-А обрасца (Потврда о поднетој пријави, промени, одјави на обавезно социјално осигурање).

Датум 03.07.2017.

Докторант

Јелена Смиљанић

Ментор

Др Марија Митровић Данкулов

Декан/Директор

др Александар Богојевић

МП

Руководилац пројекта

др Антун Балаж

УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ | БЕОГРАД
Прегревица 118, 11080 Земун - Београд, Србија
Телефон: +381 11 3713000, Факс: +381 11 3162190, www.ipb.ac.rs
ПИБ: 100105980, Матични број: 07018029, Текући рачун: 205-66984-23

РЕПУБЛИКА СРБИЈА
УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ
Орој 728/1
01 -06- 2017 год.

ПОТВРДА О МЕНТОРСТВУ

Овим потврђујем да је научни сарадник **др Марија Митровић Данкулов**, за коју се покреће избор у звање виши научни сарадник, у оквиру Лабораторије за примену рачунара у науци Националног центра изузетних вредности за изучавање комплексних система Института за физику у Београду, односно у оквиру пројекта ОН171017 „Моделирање и нумеричке симулације сложених вишечестичних система“, ментор за докторску тезу Јелене Смиљанић. Јелена Смиљанић је студент докторских студија на Електротехничком факултету Универзитета у Београду, израда њене докторске тезе је у завршној фази, а тема је већ одбрањена и прихваћена.

Београд, 30. мај 2017. године

др Антун Балаж
научни саветник
Руководилац пројекта ОН171017
Руководилац Центра за изучавање комплексних система Института за физику у Београду

УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ | БЕОГРАД
Прегревица 118, 11080 Земун - Београд, Србија
Телефон: +381 11 3713000, Факс: +381 11 3162190, www.ipb.ac.rs
ПИБ: 100105980, Матични број: 07018029, Текући рачун: 205-66984-23

РЕПУБЛИКА СРБИЈА
УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ
727/1
01-06-2017
20 год.

ПОТВРДА О РУКОВОЂЕЊУ ПОТПРОЈЕКТОМ

Овим потврђујем да научни сарадник **др Марија Митровић Данкулов** за коју се покреће избор у звање виши научни сарадник, у оквиру Лабораторије за примену рачунара у науци Националног центра изузетних вредности за изучавање комплексних система Института за физику у Београду, односно у оквиру пројекта ОН171017 „Моделирање и нумеричке симулације сложених вишечестичних система“ руководи потпројектом: „Моделирање комплексних нелинеарних динамичких система“. На поменутом потпројекту су ангажовани следећи истраживачи: др Марија Митровић Данкулов, др Игор Франовић, Јелена Смиљанић и Ива Бачић.

Београд, 30. мај 2017. године

др Антун Балаж
научни саветник
Руководилац пројекта ОН171017
Руководилац Центра за изучавање комплексних система Института за физику у Београду

УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ БЕОГРАД
Прегревица 118, 11080 Земун - Београд, Србија
Телефон: +381 11 3713000, Факс: +381 11 3162190, www.ipb.ac.rs
ПИБ: 100105980, Матични број: 07018029, Текући рачун: 205-66984-23

РЕПУБЛИКА СРБИЈА
УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ
Орг.јед. Бр. 977/1
13 -07- 2015
год.

Београд, 13. јул 2015.

У циљу успешног реализовања задатака који стоје пред Институтом за физику у текућем мандатном периоду, а посебно задатака везаних за спровођење иновационих делатности, комерцијализације нових знања и производа доносим следећу:

О Д Л У К У

Именује се др Марија Митровић Данкулов за заменика руководиоца Иновационог центра Института за физику, организационе јединице која је основни носиоц иновационе делатности у нашој институцији и која директно одговара канцеларији директора.

Ова одлука ступа на снагу на данашњи дан.

РЕПУБЛИКА СРБИЈА УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ

др Александар Богојевић, директор
Институт за физику

TUD COST Action TU1305

Management Committee

MC Chair	Prof Pnina PLAUT (IL)
MC Vice Chair	Prof Bridgette WESSELS (UK)

Working Group Leaders

WG Leader	Dr Rein AHAS
WG Leader	Prof Sven KESSELRING
WG Leader	Prof Isabelle THOMAS
WG Leader	Ms Lucia CRISTEA

■ Data registration in e-COST pending subject to online registration and nomination acceptance by nominee.

COST Participants

Country	MC Member
Austria	Ms Wiebke UNBEHAUN
Austria	Mr Andrew NASH
Belgium	Prof Isabelle THOMAS
Belgium	Prof Ann VERHETSEL
Bosnia and Herzegovina	Prof Rahman NURKOVIC
Bosnia and Herzegovina	Dr Haris GEKIC
Croatia	Dr Slaven GASPAROVIC
Croatia	Prof Tonci CARIC
Cyprus	Dr Loukas DIMITRIOU
Cyprus	Dr Andreas GREGORIADES
Czech Republic	Prof Karel SCHMEIDLER
Denmark	Dr Sigal KAPLAN
Denmark	Prof Francisco PEREIRA
Estonia	Dr Innar LIIV
Estonia	Dr Rein AHAS
France	Dr Anne AGUILERA
France	Dr Reza FARAHBAKHSH
fYR Macedonia	Prof Danco DAVCEV
Germany	Prof Sven KESSELRING
Germany	Dr Sunna TORGE
Greece	Prof Eftihia NATHANAIL
Greece	Prof Constantinos ANTONIOU
Hungary	Mr Domokos ESZTERGÁR-KISS
Hungary	Dr Tamas TETTAMANTI
Israel	Dr Dalit SHACH-PINSLY
Israel	Mr Sagiv SEGAL
Italy	Dr Antonio RASCHI
Italy	Prof Silvana STEFANI
Latvia	Mr Mihails SAVRASOVS
Lithuania	Dr Natalija VALAVIČIENĖ
Luxembourg	Prof Francesco VITI
Luxembourg	Dr Cesare BARTOLINI
Malta	Dr Odette LEWIS
Malta	Mr Kenneth BONE
Netherlands	Dr Soora RASOULI
Netherlands	Prof Harry J.p. TIMMERMANS
Norway	Dr Randi HJORTHOL
Norway	Dr Tom Erik JULSRUD
Poland	Ms Agnieszka LUKASIEWICZ

Poland	Prof Lidia ZAKOWSKA
Portugal	Prof João Paulo COSTA
Portugal	Prof João ABREU E SILVA
Romania	Ms Lucia CRISTEA
Romania	Mr Florin DRAGOMIR
Serbia	Dr Marija MITROVIC DANKULOV
Slovakia	Dr Peter HOLEČKO
Slovakia	Dr Giuseppe LUGANO
Spain	Prof Mario MUNOZ
Spain	Prof Juan DE OÑA
Sweden	Prof Bin JIANG
Switzerland	Prof Vincent KAUFMANN
Switzerland	Dr Kay W. AXHAUSEN
Turkey	Dr Yeliz EKINCI
United Kingdom	Prof Bridgette WESSELS
United Kingdom	Prof Michael BATTY
Country	**MC Substitute**
Austria	Dr Reinhard HÖSSINGER
Belgium	Prof Renaud LAMBIOTTE
Belgium	Prof Mario COOLS
Belgium	Dr Imre KESERU
Croatia	Dr Geran Marko MILETIC
Croatia	Dr Kresimir PERACKOVIC
Denmark	Dr Jonas LARSEN
France	Dr Leslie BELTON-CHEVALLIER
France	Prof Anne VERNEZ MOUDON
Germany	Mr Jan GRIMM
Greece	Dr Giannis ADAMOS
Greece	Mr Emmanouil CHANIOTAKIS
Israel	Dr David ZAIDEL
Israel	Prof Itzhak OMER
Italy	Dr Stefano PENSA
Italy	Dr Marco CAVALLERO
Lithuania	Dr Vida CESNUITYTE
Netherlands	Dr Fariya SHARMEEN
Netherlands	Dr Pauline VAN DEN BERG
Poland	Dr Zofia BRYNIARSKA
Portugal	Prof Claudia RIBEIRO DE ALMEIDA
Portugal	Mr Claudio MANTERO
Romania	Ms Liliana ANDREI
Romania	■ Mr Laurence PICKUP
Serbia	■ Dr Igor STANKOVIC
Spain	Dr Grigorios ASIMAKOPOULOS
Spain	Dr Ainhoa SERNA
Spain	Dr Antonio RUSSO
Spain	Ms María Del Mar ALONSO
Spain	Prof Antonia CASELLAS
Spain	Dr Tomás RUIZ
Spain	Ms Irene MONSONÍS PAYÁ
Spain	Dr Mireia FERRI
Spain	Prof Estrella DURÁ FERRANDIS
Spain	Dr Jon Kepa GERRIKAGOITIA
United Kingdom	Dr Ed MANLEY
United Kingdom	Dr Patricia MELO
United Kingdom	Dr Jasna MARIOTTI

Transport and Urban Development COST Action TU1305

Description

Parties

Management Committee

General Information*

Chair of the Action:
Prof Pnina PLAUT (IL)

Vice Chair of the Action:
Prof Bridgette WESSELS (UK)

Science officer of the Action:
Dr Mickael PERO

Administrative officer of the Action:
Ms Nasrine MALANDA

Downloads*

Action Fact Sheet
Download AFS as .RTF

Memorandum of Understanding
Download MoU as PDF

Websites*

Action website:
http://www.tu1305.eu/

* content provided by e-COST.
Data is synchronised once per night.

COST is supported by the EU Framework Programme Horizon 2020

Legal Notice
Accessibility
Sitemap

Subject **invitation to SocInfo2017 program committee**
From EasyChair <noreply@easychair.org>
To Marija Mitrovic <marija.mitrovic@ipb.ac.rs>
Date 2017-04-14 01:58

This letter of invitation to the program committee of
SocInfo2017 was sent to you by the EasyChair user Taha Yasseri
<taha.yasseri@oii.ox.ac.uk>. To accept or decline this
invitation and/or answer the letter please access
https://easychair.org/conferences/pcinvite_view.cgi?code=kutAqweZZPxFmsUTMzgR.

Please only reply to this letter through the provided link or send your reply to
taha.yasseri@oii.ox.ac.uk. If you try to reply to this letter using your mailer, the
reply will
NOT reach Taha Yasseri

Dear Marija,

As you may know, the 9th International Conference on Social Informatics is being held in Oxford this September: http://socinfo2017.oii.ox.ac.uk/

We would like to invite you to the Programme Committee.

The review process commence on 1 June 2017. The deadline for the reviews will be 15 June 2017.

We would appreciate if you could accept our invitation.

Best regards,
Taha Yasseri <taha.yasseri@oii.ox.ac.uk>

Best regards,
EasyChair messenger.

_____
Please do not reply to this email. This email
address is used only for sending email so you
will not receive a response.

Subject **Invitation to CCS'17 program committee**
From EasyChair <noreply@easychair.org>
To Marija Mitrovic <marija.mitrovic@ipb.ac.rs>
Date 2017-01-24 16:48

This letter of invitation to the program committee of CCS'17
was sent to you by the EasyChair user Carlos Gershenson
<cgg@unam.mx>. To accept or decline this invitation and/or
answer the letter please access
https://easychair.org/conferences/pcinvite_view.cgi?code=UmsxwHzwCIclvbsazoLs.

Please only reply to this letter through the provided link or send your reply to
cgg@unam.mx. If you try to reply to this letter using your mailer, the reply will
NOT reach Carlos Gershenson

Dear Marija,

It is a pleasure to invite you to serve a program committee member for the Information and Communication Technologies track at the Conference on Complex Systems 2017 (CCS'17), to be held on September 17th-22nd in Cancun, Mexico http://ccs17.unam.mx/ . Sponsored by the Complex Systems Society http://cssociety.org , this is the largest conference on complex systems and will take place in Latin America for the first time.

Program committee members are expected to review not more than ten abstracts (less than 500 words each). Bidding and review will take place between March 17th and April 14th.

We would also like to ask you to promote the conference through your social networks and consider presenting your work in Cancun.

Below are the proposed topics for this track.

Best regards,
Carlos Piña, track chair
Carlos Gershenson and José Luis Mateos, CCS'17 co-chairs
http://ccs17.unam.mx/

Track topics:
Computer science
Internet
WWW
Search
Semantic web
Online social networks
Behavioral science
Big data analytics
Data science
Networked computer systems
Socio-technical systems
Complex networks data mining
Community Structure in Complex Networks
Community Discovery in Complex Networks
Complex Networks and Epidemics

Large-scale Graph Analytics
Visual Representation of Complex Networks
Applications of Complex Network Analysis
Social Reputation, Influence, and Trust
Information Spreading in Social Media
Rumor and Viral Marketing in Social Networks
Communication and Information Complex Networks
Social media mining
Urban social networks
Multi-agent systems
Cellular automata
Neural networks
Evolutionary computation

Best regards,
EasyChair messenger.

Please do not reply to this email. This email address is used only for sending email so you will not receive a response.

Subject **COMPLEXIS 2017 - Program Committee Invitation**
From COMPLEXIS Secretariat <program.committee@insticc.org>
Sender <program.committee@insticc.org>
To <marija.mitrovic@ipb.ac.rs>
Date 2016-11-23 14:22

Dear Dr. Marija Mitrović Dankulov,

We are organizing a conference entitled “2nd International Conference on Complexity, Future Information Systems and Risk” - COMPLEXIS 2017 (http://www.complexis.org/) and given your expertise in some of the conference topics, we would like to kindly invite you to join its International Program Committee.

There will be two different reviewing periods:
1. The regular papers reviewing period that is scheduled to end by 1 February 2017. A regular paper presents a work where the research is completed or almost finished.

2. The position papers reviewing period that is scheduled to end by 20 February 2017. A position paper presents an arguable opinion about an issue. The goal of a position paper is to convince the audience that your opinion is valid and worth listening to, without the need to present completed research work and/or validated results.

Should you decide to give us the honor of accepting our invitation, kindly follow the link http://www.insticc.org/Primoris/AcceptInvitation.aspx?ID=mR5wtEyRBos=&reviewerType=5CvzVFbX1JYZLkDBKKlObfTrQFGE6CqJ&t=1.
Should you be unavailable to join our International Program Committee kindly follow the link http://www.insticc.org/Primoris/RejectInvitation.aspx?ID=mR5wtEyRBos=&reviewerType=5CvzVFbX1JYZLkDBKKlObfTrQFGE6CqJ&t=1 .

Looking forward to welcoming you in the Program Committee of COMPLEXIS 2017 to succeed in building a high-quality event, which will be prestigious for all parties involved.

Kind regards,
Ana Guerreiro
On behalf of COMPLEXIS’s Secretariat

DISCLAIMER

This message is confidential and intended exclusively for the addressee. If you received this message by mistake please inform the sender and delete the message and attachments. No confidentiality nor any privilege regarding the information is waived or lost by any mistransmission.

Jannik Laval

University of Lyon2, France

Program Committee

Eivind	Almaas	Norwegian University of Science and Technology	Norway
Luca Maria	Aiello	Bell Labs	Spain
Tatsuya	Akutsu	Kyoto University	Japan
Reka	Albert	Pennsylvania State University	USA
Antoine	Allard	Universitat de Barcelona	Spain
Claudio	Altafini	linköping university	Sweden
Lucila	Alvarez-Zuzek	Universidad Nacional de Mar del Plata	Argentina
Fred	Amblard	University Toulouse 1 Capitole	France
Claudio	Angione	Teesside University	UK
Alberto	Antonioni	Carlos III University of Madrid	Spain
Nuno	Araujo	Universidade de Lisboa	Portugal
Valerio	Arnaboldi	IIT-CNR	Italy
Martin	Atzmueller	University of Kassel	Germany
Rodolfo	Baggio	Bocconi University	Italy
James	Bagrow	University of Vermont	USA
Yaneer	Bar-Yam	New England Complex Systems Institute	USA
Baruch	Barzel	Bar-Ilan University	Israel
Nikita	Basov	St. Petersburg State University	Russia
Gareth	Baxter	University of Aveiro	Portugal
Mariano	Beguerisse Diaz	University of Oxford	UK
Rosa M.	Benito	Universidad Politecnica de Madrid (UPM)	Spain
Jacob	Biamonte	University of Malta	Malta
Ginestra	Bianconi	Queen Mary University	UK
Anthony	Bonato	Ryerson University	Canada
Pierre	Borgnat	CNRS, Laboratoire de Physique ENS de Lyon	France
Stefan	Bornholdt	University of Bremen	Germany
Dan	Braha	NECSI	USA
Ulrik	Brandes	University of Konstanz	Germany
Lidia A.	Braunstein	Universidad Nacional de Mar del Plata	Argentina
Markus	Brede	University of Southampton	UK
Marco	Bressan	Sapienza University of Rome	Italy

Piotr	Bródka	Wroclaw University of Technology	Poland
Javier M.	Buldu	Universidad Rey Juan Carlos & Center for Biomedical Technology	Spain
Raffaella	Burioni	Università di Parma	Italy
Kanat	Camlibel	University of Groningen	Netherlands
Carlo Vittorio	Cannistraci	Technical University Dresden	Germany
Vincenza	Carchiolo	Universita di Catania	Italy
Alessio	Cardillo	Ecole Polytechnique Féderale de Lausanne (EPFL)	Switzerland
Ciro	Cattuto	ISI Foundation	Italy
Kwang-Cheng	Chen	University of South Florida	USA
Richard	Clegg	Imperial College, London	UK
Jack	Cole	ARL	USA
Giacomo	Como	Lund University	Sweden
Luciano	Costa	University of Sao Paulo	Brazil
Emanuele	Cozzo	University of Zaragoza	Spain
Regino	Criado	Universidad Rey Juan Carlos	Spain
Mihai	Cucuringu	UCLA	USA
Bhaskar	Dasgupta	University of Illinois at Chicago	USA
Fabrizio	De Vico Fallani	Inria - ICM	France
Jean-Charles	Delvenne	University of Louvain	Belgium
Jana	Diesner	University of Illinois at Urbana-Champaign	USA
Louis	Dubé	Université Laval	Canada
Jordi	Duch	Universitat Rovira i Virgili	Spain
Mohammed	El Hassouni	mohammed V University	Marocco
Omodei	Elisa	Universitat Rovira i Virgili	Spain
Frank	Emmert-Streib	Tampere University	Finland
Ernesto	Estrada	University of Strathclyde	UK
Tim	Evans	Imperial College London	UK
Mauro	Faccin	Universitè Catholique de Louvain	Belgium
Giorgio	Fagiolo	Sant'Anna School of Advanced Studies	Italy
Alessandro	Flammini	Indiana University	USA
Eric	Fleury	ENS Lyon / INRIA	France
Mattia	Frasca	University of Catania	Italy
Xinchu	Fu	Shanghai University	China
José Manuel	Galán	University of Burgos	Spain
Antonios	Garas	ETH Zurich	Switzerland
Gourab	Ghoshal	University of Rochester	USA
Silvia	Giordano	SUPSi	Switzerland
James	Gleeson	University of Limerick	Ireland
Kwang-Il	Goh	Korea University	Korea
Sergio	Gómez	Universitat Rovira i Virgili	Spain

Bruno	Gonçalves	New York University	USA
Steve	Gregory	University of Bristol	UK
Jean-Loup	Guillaume	L3i - Université de la Rochelle	France
Mehmet	Gunes	University of Nevada, Reno	USA
Aric	Hagberg	Los Alamos National Laboratory	USA
Chris	Hankin	Imperial College London	UK
Jin-Kao	Hao	University of Angers	France
Yukio	Hayashi	Japan Advanced Institute of Science and Technology	Japan
Laurent	Hébert-Dufresne	Santa Fe Institute	USA
Shaun	Hendy	University of Auckland	New Zealand
Desmond	Higham	University of Strathclyde	UK
Philipp	Hoevel	TU Berlin	Germany
Seok-Hee	Hong	University of Sydney	Australia
Ulrich	Hoppe	University Duisburg-Essen	Germany
Pan	Hui	Hong Kong University of Science and Technology	Hong Kong
Gerardo	Iñiguez	National Autonomous University of Mexico (UNAM)	Mexico
Marco Alberto	Javarone	University of Sassari	Italy
Hawoong	Jeong	Korea Advanced Institute of Science and Technology	Korea
Bertrand	Jouve	CNRS	France
Byungnam	Kahng	Seoul National University	Korea
Rushed	Kanawati	Université Paris 13	France
Márton	Karsai	ENS de Lyon	France
Dror	Kenett	U.S. Department of the Treasury	USA
Yoed	Kenett	University of Pennsylvania	USA
Hyoungshick	Kim	Sungkyunkwan University	Korea
Maksim	Kitsak	Northeastern University	UK
Mikko	Kivela	University of Oxford	UK
Peter	Klimek	Medical University of Vienna	Austria
Danai	Koutra	University of Michigan, Ann Arbor	USA
Jérôme	Kunegis	University of Koblenz-Landau	Germany
Valentina	Kuskova	National Research University	Russia
Ryszard	Kutner	University of Warsaw	Poland
Renaud	Lambiotte	University of Namur	Belgium
Christine	Largeron	Université de Lyon	France
Matthieu	Latapy	CNRS	France
Anna T.	Lawniczak	University of Guelph	Canada
Benedicte	Le-Grand	Université Paris 1 Panthéon Sorbonne	France
Eric	Leclercq	University of Burgundy	France
Sang Hoon	Lee	Korea Institute for Advanced Study	Korea

Sune	Lehmann	Technical University of Denmark	Denmark
Xiang	Li	Fudan University	China
Nelly	Litvak	University of Twente	Netherlands
Yang-Yu	Liu	Harvard Medical School	USA
Alessandro	Longheu	University of Catania	Italy
Jinhu	Lu	Chinese Academy of Sciences	China
John C.S.	Lui	The Chinese University of Hong Kong	Hong Kong
Matteo	Magnani	Uppsala University	Sweden
Clemence	Magnien	UPMC Sorbonne Universités	France
Giuseppe	Mangioni	University of Catania	Italy
Antonio	Marques	King Juan Carlos University	Spain
Michael	Mäs	University of Groningen	Netherlands
Cristina	Masoller	Universitat Politecnica de Catalunya	Spain
Naoki	Masuda	University of Bristol	UK
Petr	Matous	University of Sydney	Australia
Natarajan	Meghanathan	Jackson State University	USA
Guy	Melançon	Université de Bordeaux	France
Jörg	Menche	Austrian Academy of Sciences	Austria
Jose Fernando	Mendes	University of Aveiro	Portugal
Ronaldo	Menezes	Florida Institute of Technology	USA
Radosław	Michalski	Wrocław University of Science and Technology	Poland
Bivas	Mitra	Indian Institute of Technology Kharagpur	India
Marija	Mitrovic	Institute of physics Belgrade	Serbia
Suzy	Moat	University of Warwick	UK
Yamir	Moreno	Universidad de Zaragoza	Spain
Igor	Mozetič	Jozef Stefan Institute	Slovenia
Animesh	Mukherjee	Indian Institute of Technology, Kharagpur	India
Tsuyoshi	Murata	Tokyo Institute of Technology	Japan
Katarzyna	Musial	Bournemouth University	UK
Andrea	Omicini	Università di Bologna	Italy
Gergely	Palla	Eötvös University,	Hungary
Pietro	Panzarasa	Queen Mary University of London	UK
Fragkiskos	Papadopoulos	Cyprus University of Technology	Cyprus
Symeon	Papadopoulos	Information Technologies Institute	Greece
Michela	Papandrea	SUPSI	Switzerland
Han Woo	Park	YeungNam University	Korea
Juyong	Park	Korea Advanced Institute of Science and Technology	Korea
Andrea	Passarella	IIT-CNR	Italy
Tiago	Peixoto	University of Bath	UK
Matjaz	Perc	University of Maribor	Slovenia

Nicola	Perra	University of Greenwich	UK
Giovanni	Petri	ISI Foundation	Italy
Carlo	Piccardi	Politecnico di Milan	Italy
Chiara	Poletto	INSERM UMR-S 1136	France
Victor	Preciado	University of Pennsylvania	USA
Christian	Quadri	University of Milan	Italy
Marco	Quaggiotto	ISI Foundation	Italy
Walter	Quattrociocchi	Labss,Institute of Cognitive Sciences and Technologies	Italy
Jose J.	Ramasco	IFISC (CSIC-UIB)	Spain
Asha	Rao	RMIT University	Australia
Gesine	Reinert	University of Oxford	UK
Massimo	Riccaboni	IMT Institute for Advanced Studies, Lucca	Italy
Luis E C	Rocha	Karolinska Institutet	Switzerland
Luis M.	Rocha	Indiana University	USA
Francisco	Rodrigues	University of São Paulo	Brazil
Henrik	Ronellenfitsch	University of Pennsylvania	USA
Luca	Rossi	University of Copenhagen	Denmark
Martin	Rosvall	Umeå Univeristy	Sweden
Amir	Rubin	Ben-Gurion University of the Negev	Israël
Alessandra	Sala	Nokia Bell Labs	Ireland
Jari	Saramäki	Aalto University	Finland
Hiroki	Sayama	Binghamton University, SUNY	USA
Antonio	Scala	Institute for Complex Systems / Italian National Research Council	Italy
Maximilian	Schich	The University of Texas at Dallas	USA
Ingo	Scholtes	ETH Zurich	Switzerland
Frank	Schweitzer	ETH Zurich	Switzerland
Aneesh	Sharma	Twitter Inc	USA
Rajesh	Sharma	Queen's University Belfast	Ireland
Filippo	Simini	University of Bristol	UK
Anurag	Singh	NIT Delhi	India
Per Sebastian	Skardal	Trinity College	Ireland
Michael	Small	The University of Western Australia	Australia
Chaoming	Song	University of Miami	USA
Mauro	Sozio	Télécom ParisTech	France
Pål	Sundsøy	Norges Bank Investment Management	Norway
Michael	Szell	Hungarian Academy of Sciences	Hungary
Bosiljka	Tadic	Jozef Stefan Institute	Slovenia
Kazuhiro	Takemoto	Kyushu Institute of Technology	Japan
Frank	Takes	Leiden University	Netherlands

Claudio Juan	Tessone	University of Zurich	Switzerland
I-Hsien	Ting	National University of Kaohsiung	Taiwan
Olivier	Togni	Burgundy University	France
Ljiljana	Trajkovic	Simon Fraser University	Canada
Jan	Treur	Vrije Universiteit Amsterdam	Netherlands
Liubov	Tupikina	PIK, Potsdam	Germany
Stephen	Uzzo	New York Hall of Science	USA
Piet	Van Mieghem	Delft University of Technology	Netherlands
Balazs	Vedres	Central European University	Hungary
Huijuan	Wang	Delft University of Technology	Netherlands
Pinghui	Wang	Xi'an Jiaotong University	China
Xiaofan	Wang	Shanghai Jiao Tong University	China
Guanghui	Wen	Southeast University, Nanjing	China
Ernst	Wit	University of Groningen	Netherlands
Feng	Xia	Dalian University of Technology	China
Wenwu	Yu	City University of Hong Kong	Hong Kong
Ivan	Zelinka	VSB Technical University of Ostrava	Czech Republic
Zi-Ke	Zhang	Hangzhou Normal University	China
Matteo	Zignani	Università degli Studi di Milano	Italy
Antonio	Zippo	Consiglio Nazionale delle Ricerche	Italy
Vinko	Zlatić	Rudjer Boskovic Institute	Croatia

Webmaster

Matteo Zignani, University of Milan, Italy

The International Conference on Complex Networks and Their Applications

Subject **invitation to COMPLEX NETWORKS 2016 program committee**

From EasyChair <noreply@easychair.org>

To Marija =?UTF-8?B?TWl0cm92acSH?= <Marija.Mitrovic@scl.rs>

Date 2016-09-20 14:23

This letter of invitation to the program committee of COMPLEX NETWORKS 2016 was sent to you by the EasyChair user Hocine Cherifi <hocine.cherifi@gmail.com>. To accept or decline this invitation and/or answer the letter please access https://easychair.org/conferences/pcinvite_view.cgi?code=1cIAbpA5jKVuygBIyM4T.

Please only reply to this letter through the provided link or send your reply to hocine.cherifi@gmail.com. If you try to reply to this letter using your mailer, the reply will
NOT reach Hocine Cherifi

Dear Marija,

It gives me great pleasure to ask if you would be willing to join the Program Committee of the Fifth Workshop on Complex Networks and their Applications to be held in Milan, 30 November 02 December 2016.
http://www.complexnetworks.org/index.html
This year we accept both papers and abstracts
The submission deadline was September 18, 2016 and we are expecting receiving reviews by October 09, 2016.

I do very much hope that you will be able to accept this invitation.
Yours sincerely
Hocine Cherifi
University of Burgundy, France

Best regards,
EasyChair messenger.

Please do not reply to this email. This email address is used only for sending email so you will not receive a response.

3rd Conference on Sustainable Urban Mobility (3rd CSUM)

http://www.csum.civ.uth.gr/

26 – 27 May 2016
Volos, Greece

Organized by:

University of Thessaly

Department of Civil Engineering

Traffic, Transportation and Logistics Laboratory – TTLog

With the support of:

World Academy of Science, Engineering and Technology - WASET

University of Thessaly

TTLog Traffic, Transportation and Logistics Laboratory

WASET World Academy of Science, Engineering and Technology

Committees

Organizing Committee

Eftihia Nathanail (Chair)
Giannis Adamos
Sofia Charalampidou
Michael Gogas

Scientific Committee

Name	Country	Institution
João Abreu E Silva	Portugal	Instituto Superior Técnico
Rein Ahas	Estonia	University of Tartu
Constantinos Antoniou	Greece	National Technical University of Athens
Michael Batty	United Kingdom	UCL
João Paulo Costa	Portugal	University of Coimbra
Yeliz Ekinci	Turkey	Istanbul Bilgi University
Irina Jackiva	Latvia	Transport and Telecommunication Institute
Bin Jiang	Sweden	University of Gävle
Sven Kesselring	Germany	Nürtingen-Geislingen University
Marija Mitrovic Dankulov	Serbia	Institute of Physics Belgrade
Mario Munoz	Spain	Universidad Carlos III de Madrid
Eftihia Nathanail	Greece	University of Thessaly
Juan de Ona	Spain	University of Granada
Francisco Pereira	Denmark	Technical University of Denmark
Pnina Plaut	Israel	Technion - Israel Institute of Technology
Antonio Raschi	Italy	Istituto di biometeorologia
Mihails Savrasovs	Latvia	Transporta un sakaru institūts
Karel Schmeidler	Czech Republic	REDECO
Dalit Shach-Pinsly	Israel	Technion - Israel Institute of Technology
Tamas Tettamanti	Hungary	Budapest University of Technology and Economics
Isabelle Thomas	Belgium	Université catholique de Louvain, Louvain-la-Neuve
Harry J.p. Timmermans	Netherlands	Eindhoven University of Technology
Francesco Viti	Luxembourg	University of Luxembourg
Lidia Zakowska	Poland	Politechnika Krakowska

Contact Details

Conference Secretariat
Tel.: +30-2421074164, +30-2421074158
Fax: +30-2421074131
E-mail: infocsum@civ.uth.gr

Subject **invitation to IC2S2 program committee**
From EasyChair <noreply@easychair.org>
To Marija Mitrovic <marija.mitrovic@ipb.ac.rs>
Date 2015-10-26 23:34

This letter of invitation to the program committee of IC2S2 was
sent to you by the EasyChair user Nancy Mclaughlin
<n-mclaughlin@northwestern.edu>. To accept or decline this
invitation and/or answer the letter please access
https://easychair.org/conferences/pcinvite_view.cgi?code=fvpZbHn59HuZi4daOebN.

Please only reply to this letter through the provided link or send your reply to
n-mclaughlin@northwestern.edu. If you try to reply to this letter using your mailer, the
reply will
NOT reach Nancy Mclaughlin

Dear Marija,

We would like to invite you to join the program committee of the Second Annual International Conference on Computational Social Science (IC2S2 2016, http://www.kellogg.northwestern.edu/news-events/conference/ic2s2/2016.aspx), to be held at the Kellogg School of Management of Northwestern University in Evanston, USA, from June 23 to June 26, 2016.

IC2S2 is an interdisciplinary event designed to engage a broad community of researchers – academics, industry experts, open data activists, government agency workers, and think tank analysts – dedicated to advancing social science knowledge through computational methods. This event affords the opportunity to meet and discuss works in which social systems and dynamics are investigated in a quantitative way through large datasets that are either mined from various sources (e.g. social media, communication systems), or created via controlled experiments or computational modeling.

The event is the merger of two successful conferences: the Computational Social Science Summit (CSSS16, (http://www.kellogg.northwestern.edu/news-events/conference/csss/2015.aspx)), hosted by the Kellogg School of Management at Northwestern University, IL USA, and the International Conference on Computational Social Science (IC2S2 2015, http://www.iccss2015.eu/), that took place in Helsinki, Finland.

This is the list of invited speakers (all confirmed):

Susan Athey, Stanford
Dirk Brockman, Humboldt University Berlin
Rosaria Conte, Institute for Cognitive Science and Technology Rome
Peter Dodds, University of Vermont
Dave Ferucci, Bridgewater Associates (formerly Head of IBM Watson)
Sandra Gonzalez-Bailon, University of Pennsylvania
Michael Kearns, University of Pennsylvania
Jon Kleinberg, Cornell University
David Lazer, Northeastern University Boston
Alexandro Lomi, University of Lugano
Sendhil Mullainathan, Harvard University
Matt Salganik, Princeton University

Markus Strohmaier, GESIS Cologne
Balazs Vedres, Central European University Budapest

As a program committee member, you are expected to review a maximum of 8 submissions (consisting of extended abstracts of max 2/3 pages) and possibly make discussions with other PC members who are reviewing the same contributions.

The important dates of the conference are listed as follows:

Paper Submission: 25 November 2015 – 31 January 2016
Paper bidding: 1 February – 15 February 2016
Paper Assignment: 20 February 2016
Review Due: 31 March 2016
Notification: 30 April 2016
Conference: 23-26 June 2016

We sincerely hope that you can accept our invitation. We look forward to hearing your positive answer! Please log onto the conference management system for IC2S2 2016 to answer our invitation.

https://easychair.org/conferences/?conf=ic2s20

Thanks,
Noshir Contractor, Brian Uzzi & Duncan Watts
Co-chairs, IC2S2 2016

Best regards,
EasyChair messenger.

Please do not reply to this email. This email address is used only for sending email so you will not receive a response.

ITIS 2016

TALKS AND POSTERS

We invite all scientists working in the fields covered by the conference (or close to them) to present their work. You can choose between a short talk (~20 min) and a poster.

Abstracts are submitted no later than NOVEMBER 5 following this link.

We will have all submitted abstracts reviewed by our **Program Committee** and notify you about their decision within few days.

Taha Yasseri, University of Oxford, UK
Franjo Cecelja, University of Surrey, UK
Marko Budišić, University of Wisconsin Madison, USA
Jelena Grujić, Free University Brussels, Belgium
Markus Abel, Potsdam University, Germany
Marta Sales, Rovira i Virgili University, Tarragona, Spain
Roger Guimera, Rovira i Virgili University, Tarragona, Spain
Andrea Guazzini, University of Florence, Italy
Daniele Vilone, University of Florence, Italy
Davide Rossi, University of Bologna, Italy
Matteo Marsili, ICTP, Trieste, Italy
Antonina Dattolo, University of Udine, Italy
Marija Mitrović Dankulov, Institute of Physics, Serbia
Srđan Škrbić, University of Novi Sad, Serbia
Pere Tumbas, University of Novi Sad, Serbia
Olivera Grljević, University of Novi Sad, Serbia
Petar Marić, University of Banja Luka, BIH
Robert Kopal, University College Algebra, Zagreb, Croatia
Leo Mršič, IN2data, Zagreb, Croatia
Miroslav Bača, University of Zagreb, Croatia
Markus Schatten, University of Zagreb, Croatia

Zvonko Kostanjčar, University of Zagreb, Croatia
Petra Grd, University of Zagreb, Croatia
Ana Meštrović, University of Rijeka, Croatia
Sanda Martinčić-Ipšić, University of Rijeka, Croatia
Igor Mozetič, Jožef Stefan Institute, Slovenia
Bernard Ženko, Jožef Stefan Institute, Slovenia
Panče Panov, Jožef Stefan Institute, Slovenia
Vladimir Batagelj, University of Ljubljana, Slovenia
Ljupčo Todorovski, University of Ljubljana, Slovenia
Anuška Ferligoj, University of Ljubljana, Slovenia
Matjaž Jurič, University of Ljubljana, Slovenia
Boštjan Delak, ITAD Ljubljana, Slovenia
Matjaž Perc, University of Maribor, Slovenia
Igor Bernik, University of Maribor, Slovenia
Tatjana Welzer Družovec, University of Maribor, Slovenia
Marjan Heričko, University of Maribor, Slovenia

We will do our best to squeeze in all talks, but depending on the interest for talks we might ask some of you to present your work as poster instead.

Regardless of whether your are presenting a talk/poster or not, you are required to register in order to attend the conference. Registration is done here, separately from abstract submission.

IC^{2}S^2 (http://iccss2015.eu

IC^{2}S^2 (International Conference on Computational Social Science) is ar interdisciplinary event, where scientists of different areas will have the oppor to meet and discuss about works where social systems and dynamics a investigated in a quantitative way through large datasets, either mined from v sources (e.g. social media, communication systems), or created via contro experiments

Conference Chairs Program Committee Organizing Committ

Eytan Adar, University of Michigan

B. Aditya Prakash, Virginia Tech

David Liben-Nowell, Carleton College


Y.Y. Ahn, Indiana University


René Algesheimer, University of Zurich


Stuart Anderson, University of Edinburgh


Alex Arenas, University Rovira i Virgili Tarragona


Robert L. Axtell, George Mason University


Chris Bail, University of Noth Carolina


Andrea Baronchelli, City University of London


Alain Barrat, CPT Marseille


Marc Barthélémy, CEA-Saclay France


Michele Berlingerio, IBM Research


Arnim Bleier, Universität Leipzig


Javier Borge-Holthoefer, Qatar Computing Research Institute, QCRI


Jonathan Bright, Oxford Internet Institute


Elizabeth E. Bruch, University of Michigan


Claudio Castellano, ISC-CNR Rome


Carlos Castillo, Qatar Computing Research Institute


Ciro Cattuto, ISI Foundation Turin


Damon Centola, University of Pennsylvania


Edo Liberty, Yale University


Alessandro Lomi, University of Lugano


Vittorio Loreto, University of Rome


Jared Lorince, Indiana University


Giovanni Luca Ciampaglia, Indiana University


Mark Lutter, Max-Planck-Institut für Gesellschaftsforschung (MPIfG)


Michael Mahoney, Uni. of California, Berkeley


Rosario Mantegna, Central European University


Winter Mason, Stevens Institute of Technology


Alan Mislove, Northeastern University


Marija Mitrovic Dankulov, Institute of Physics, Belgrade


Dunia Mladenic, Jozef Stefan Institute


Suzy Moat, University of Warwick


Yamir Moreno, University of Zaragoza


Esteban Moro, University Carlos III

Arnab Chatterjee, Saha Institute of Nuclear Physics, Kolkata, India

Sanjay Chawla, University of Sydney

Munmun de Choudhury, Georgia Institute of Technology

Vittoria Colizza, INSERM Paris

Michele Coscia, Harvard University

Richard Darst, Aalto University

Andreas Diekmann, ETH Zurich

Victor Eguìluz, IFISC Mallorca

Emilio Ferrara, Indiana University

Alessandro Flammini, Indiana University

Diego Fregolente, Indiana University

Seth Frey, Disney Research, Zürich

Adrien Friggeri, Facebook Research

Andrea Gabrielli, Istituto dei Sistemi Complessi (ISC)
- CNR, UOS"Sapienza"

Matteo Gagliolo, Université Libre de Bruxelles

Aram Galstyan, University of Southern California

Floriana Gargiulo, Université de Namur

Madrid

Michael Mäs, ETH Zurich

Mirco Nanni, Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo", CNR, Italy

André Panisson, University of Torino

Daniela Paolotti, ISI Foundation Turin

Symeon Papadopoulos, Centre for Research and
Technology Hellas (CERTH) - Information Technologies Institute (ITI)

Patrick Park, Cornell University

Orion Penner, IMT Lucca

Nicola Perra, Northeastern University

Alex Petersen, IMT Lucca

Hang-Hyun Jo, Pohang University of Science and Technology

Tobias Preis, University of Warwick

Daniele Quercia, Yahoo Barcelona

Filippo Radicchi, Indiana University

Sidney Redner, Santa Fe Institute

Felix Reed-Tsochas, Oxford


Daniel Gayo-Avello, University of Oviedo


Rumi Ghosh, University of Southern California


Fosca Giannotti, University of Pisa


Christos Giatsidis, Ecole Polytechnique, Paris


Amir Goldberg, Stanford University


Bruno Goncalves, Centre Physique Théorique Aix-Marseille Université


Przemyslaw Grabowicz, Max Planck Institute for Software Systems, Germany


André Grow, KU Leuven


Thomas Grund, Linköping University


Scott Hale, Oxford Internet Institute


Peter Hedström, Institute for Futures Studies


Bernie Hogan, Oxford Internet Institutey


Petter Holme, University of Umea


Marco Javarone, Università di Sassari


Kenneth A. De Jong, George Mason University


Marton Karsai, Ecole Normale Superieure de Lyon


Sasahara Kazutoshi, Nagoya University


Brian Keegan, Northeastern University


Salvo Rinzivillo, Università di Pisa


Martin Rosvall, University of Umea


Giancarlo Ruffo, University of Turin


Maxi San Miguel IFISC MallorcA


Angel Sanchez, University Carlos III Madrid


Rossano Schifanella, University of Turin


Harald Schoen, University of Bamberg


Frank Schweitzer, ETH Zurich


Yaron Singer, Harvard University


Flaminio Squazzoni, University of Brescia


Christoph Stadtfeld, ETH Zurich


Markus Strohmaier, University of Koblenz-Landau


Károly Takács, Hungarian Academy of Sciences


Maurizio Tesconi, Institute of Informatics and Telematics, CNR, Italy


Dimitrios Thilikos, University of

Yiannis Kompatsiaris, University of Thessaloniki

Raj Kumar Pan, Aalto University

Renaud Lambiotte, University of Namur

Andrea Lancichinetti, University of Umea

Vito Latora, Queen Mary University of London

Sang Hoon Lee, Sungkyunkwan University, Seoul, Korea

Sune Lehmann, Technical University of Denmark

Kristina Lerman, University of Southern California ISI

Athens

Kristian Tylén, Aarhus Universitet

Johan Ugander, Stanford University

Lyle Ungar, University of Pennsylvania

Claudia Wagner, Leibniz Institute for the Social Sciences

Athena Vakali, Aristotle University, Thessaloniki

Dashun Wang, IBM Research

Michalis Vazirgiannis, Ecole Polytechnique, Paris

Ingmar Weber, Qatar Computing Research Institute, QCRI

Katrin Weller, Leibniz Institute for the Social Sciences

Tim Weninger, University of Notre Dame

Sebastiano Vigna, University of Milan

Dani Villatoro, BBVA Data & Analytics

Daniele Vilone, LABSS – ISTC – CNR, Rome

Yana Volkovich, Barcelona Media, Spain

SUMMERSOLSTICE 2014
International Conference On Discrete Models Of Complex Systems

22-25 June 2014, Institute Jozef Stefan, Ljubljana, Slovenia

B O O K

O F

A B S T R A C T S

Edited by Bosiljka Tadić & Milovan Šuvakov

©Department of Theoretical Physics, Jozef Stefan Institute, Slovenia; June 2014

Bstar© 2013 ☆ **Follow post-conference updates at the Web page: http://www-f1.ijs.si/~tadic/Workshops/Solstice14/**

Discrete Models of Complex Systems
SUMMERSOLSTICE 2014
6th Edition

June 23—25, 2014, Institute Jožef Stefan, Ljubljana, Slovenia

BOOK OF ABSTRACTS

©Department of Theoretical Physics, Jožef Stefan Institute, Ljubljana, June 2014

Program Committee

Franco Bagnoli	University of Florence, Italy
Marian Boguna	University of Barcelona, Spain
Zdzislaw Burda	Jegallonian University, Krakow, Poland
Brundo N Di Stefano	Nuptek Systems Ltd, Toronto, Canada
Nazim Fates	INRIA NAncy - Grand Est, France
Rolf Hoffmann	Technical University of Darmstadt, Germany
Andrzej Krawiecki	Warsaw University of Technology, Poland
Anna T. Lawniczak	University of Guelph, Canada
Danuta Makowiec	University of Gdansk, Poland
Marija Mitrović	University of Helsinky, Finland
Andrea Rapisarda	University of Catania, Italy
Raul Rechtman	Universidad Nacional Autonoma de Mexico, Mexico
Jose Mendes	University of Aveiro, Portugal
Bosiljka Tadić	Jozef Stefan Institute, Slovenia
Pieter Van der Weeën	Ghent University, Belgium

Local Organizers

Bosiljka Tadić (chair), Milovan Šuvakov, Nataša Adžić, Nevenka Hauschild (secretary)
Theoretical Physics Department, Jožef Stefan Institute, Ljubljana, Slovenia
CONTACT: Phone: +38614773767; FAX: +38614773724; E-mail: bosiljka.tadic@ijs.si;

Webpage: http://www-f1.ijs.si/∼tadic/Workshops/Solstice14/

Supported
In part by ARRS Agency for Research of the Republic of Slovenia, the Program P1-0044
and by The Jožef Stefan Institute through the Colloquium program.

ITIS 2014

First announcement and call for papers

The 6th International Conference on Information Technologies and Information Society ITIS 2014,

Šmarješke toplice, Slovenia, November 5-7, 2014

****

Web: http://itis2014.fis.unm.si/

Email: itis14@fis.unm.si

****

Dear Colleagues,

We invite you to the 6th International Conference on Information Technologies and Information Society (ITIS2014), taking place November 5-7 in Šmarješke toplice, Slovenia.

The conference is annually organized by the Faculty of information studies in Novo mesto (FIS). The venue this year is beautiful Spa-hotel Šmarjeta surrounded by deep forests and green rivers.

The core scientific scope of ITIS events are the applications of IT, particularly in social sciences. The conference also covers a wider range of topics related to IT and computational modeling,

in the context of our Creative Core project “Simulations” and our Research Program “Complex networks”.

These include cloud computing, complex networks, bioinformatics, optimization, statistical analysis, business processes, information systems and security.

We welcome contributions in form of papers and/or talks from any of these or related fields.

PLENARY SPEAKERS

- Ivona Brandić, Information Systems Institute, Vienna University of Technology, Austria

“Democratizing Science Through Self-manageable Clouds”

- Franjo Cecelja, Process and Information Systems Engineering Research Centre, University of Surrey, UK

“Ontology engineering: support to industrial processes”

- Boris Podobnik, Department of Physics, Boston University, USA

“Network risk and forecasting power in phase-flipping dynamical networks”

- Damir Vukičević, Department of Mathematics, University of Split, Croatia

(to be announced)

- Aneta Stefanovska (to be confirmed), Department of Physics, Lancaster University, UK

CONTRIBUTIONS

We invite all scientists and researchers in the fields covered by the conference to contribute original scientific papers and/or talks.

Our intention is to publish the best papers (journal versions) with a recognized international publisher.

All contributions are reviewed by our Program Committee on the basis of technical quality, scientific originality and clarity of presentation.

PAPER DEADLINE IS JULY 30

ACCEPTANCE NOTIFICATION ON AUGUST 30

If your paper is accepted, at least one of the authors has to present the paper at the conference.

Talks can be contributed without submitting a paper (only abstract required).

Other details on paper submission are on the webpage.

PROGRAM COMMITTEE

Sanda Martinčić-Ipšić, University of Rijeka, Croatia

Bernard Ženko, Ježef Stefan Institute, Ljubljana, Slovenia

Markus Schatten, Faculty of Organization and Informatics, Croatia

Matteo Marsili, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy.

Franjo Cecelja, University of Surrey, UK

Tijana Milenković, University of Notre Dame, USA

Marija Mitrović, Institute of Physics Belgrade, Serbia

Igor Bernik, University of Maribor, Slovenia

Miroslav Bača, Faculty of Organization and Informatics, Croatia

Aneta Stefanovska, Lancaster University, UK

Lovro Šubelj, University of Ljubljana, Slovenia

Nataša Pržulj, Imperial College London, UK

Antonina Dattolo, University of Udine, Italy

Davide Rossi, University of Bologna, Italy

Ljupčo Todorovski, University of Ljubljana, Slovenia

Matjaž Jurič, University of Ljubljana, Slovenia

Ana Meštrović, University of Rijeka, Croatia

Boštjan Delak, ITAD, Ljubljana, Slovenia

Marko Bohanec, Jožef Stefan Institute, Slovenia

PROGRAM AND SCHEDULE

The program will include a series of plenary and contributed talks, starting November 6 at 9:00 and ending afternoon/evening of November 7.

It will also include social events such as conference dinner on the evening of November 6 and free gathering on the evening of November 7.

More precise details/schedule will be announced on the webpage once the full list of contributions is known.

IMPORTANT DATES

Paper deadline: July 30

Acceptance notification: August 30

Early registration ends: September 30

Final paper version: November 1

REGISTRATION

Registration consists of two steps: electronic registration and fee payment. If you are contributing a paper and/or a talk, do not forget to submit the details of it.

You can present a talk without submitting a paper, but if you submit a paper, one of the authors must present it via talk.

The fee includes all conference materials, lunch, coffee breaks and welcome drinks. It includes no accommodation.

FEES

Early registration fees (before September 30) are 200 EUR (100 EUR for students)

Late registration fees (after September 30) are 250 EUR (125 EUR for students)

Please cover your fee via bank transfer (details on webpage).

ACCOMMODATION

The conference venue is Spa-hotel Šmarjeta situated in Šmarješke toplice. For booking, please contact the hotel directly:

Phone +38673843400 +38673843500

Email booking.smarjeske@terme-krka.si

Prices (including breakfast, free WIFI, unlimited usage of spa facilities and 10% ITIS2014 discount)

Single room 76EUR

Double room 61EUR (per person)

When unable to find suitable/affordable accommodation in Šmarješke toplice, please contact us.

CONTACT

Email itis14@fis.unm.si

Phone +38641288778

Hesitate not to contact us regarding any issues at any time via email above. Please use phone only for urgent matters.

ORGANIZING COMMITTEE

Zoran Levnajić, Biljana Mileva Boškoska, Janez Povh, Matej Mertik

Barbara Pavlakovič, Marjeta Grahek (administrative support)

Maja Zorčič (financial matters)

5^{th} International Conference on Information Technologies and Information Society ITIS 2013

Proceedings

Edited by Zoran Levnajić
Faculty of Information Studies in Novo mesto

Dolenjske toplice, Slovenia, 7-9 November 2013
http://itis2013.fis.unm.si/

CONFERENCE ORGANIZATION

ORGANIZING COMMITTEE

Zoran Levnajić (chair), Janez Povh, Matej Mertik
Barbara Pavlakovič, Marjeta Grahek (administrative support)
Maja Zorčič (financial matters)

PROGRAM COMMITTEE (Paper referees)

Nataša Pržulj, Imperial College London, UK
Santo Fortunato, Aalto University, Finland
Matjaž Perc, University of Maribor, Slovenia
Tijana Milenković, University of Notre Dame, USA
Miroslav Bača, Faculty of Organization and Informatics, Croatia
Markus Schatten, Faculty of Organization and Informatics, Croatia
Antonina Dattolo, University of Udine, Italy
Marko Bohanec, Jožef Stefan Institute, Slovenia
Mario Spremić, University of Zagreb, Croatia
Matjaž Jurič, University of Ljubljana, Slovenia
Marjan Heričko, University of Maribor, Slovenia
Sanda Martinčić-Ipsić, University of Rijeka, Croatia
Ana Mestrović, University of Rijeka, Croatia
Janez Povh, Faculty of Information Studies, Novo mesto, Slovenia
Nadja Damij, Faculty of Information Studies, Novo mesto, Slovenia
Matej Mertik, Faculty of Information Studies, Novo mesto, Slovenia
Blaž Rodič, Faculty of Information Studies, Novo mesto, Slovenia
Zoran Levnajić, Faculty of information studies, Novo mesto, Slovenia
Borut Lužar, Faculty of information studies, Novo mesto, Slovenia
Boštjan Delak, ITAD, Technological Park Ljubljana, Slovenia
Igor Bernik, University of Maribor, Slovenia
Davide Rossi, University of Bologna, Italy
Marina Ivašić-Kos, University of Rijeka, Croatia
Simon Kozina, Jožef Stefan Institute, Ljubljana, Slovenia
Mitja Krajnc, University of Maribor, Slovenia
Grzegorz Majewski, Faculty of information studies, Novo mesto, Slovenia
Andrej Dobrovoljc, Faculty of information studies, Novo mesto, Slovenia
Jelena Govorčin, Faculty of information studies, Novo mesto, Slovenia

KNOWeSCAPE

Analyzing the dynamics of information and knowledge landscapes

COST EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

Organizing Committee

- Prof. Santo Fortunato
- Dr Marija Mitrović

Subject **Alex Hansen via Frontiers: Your Research Topic has been accepted**

From Frontiers <noreply@frontiersin.org>

To <marija.mitrovic@ipb.ac.rs>

Reply-To Alex Hansen <Alex.Hansen@ntnu.no>

Date 2017-03-01 14:38

Alex Hansen has sent you a message. Please click 'Reply' to send a direct response

Dear Dr Mitrovic Dankulov,

I am pleased to inform you that your proposal has been approved for a Research Topic on Culturomics: Interdisciplinary Path Towards Quantitative Study of Human Culture for Frontiers in Physics, section Interdisciplinary Physics.

Your Research Topic homepage will be created as soon as possible: we are performing a final check of your Topic and we will inform you once it is published online, which may take up to one week. If your Research Topic is being considered to appear simultaneously in multiple Frontiers specialties, we will now follow up with any additional Chief Editors regarding this request.

In the meantime, please take a minute to familiarize yourself with these guidelines on how to host your Research Topic:
http://www.frontiersin.org/Design/pdf/Host_Editor_Guidelines.pdf

Best regards,

With best regards,

Alex Hansen
Specialty Chief Editor, Interdisciplinary Physics
www.frontiersin.org

****
Additional information:
Frontiers is a Gold open-access publisher. As such, manuscripts accepted for publication incur a publishing fee, which varies depending on the article type. Our publishing fees are below average compared to most other open-access journals.. Details on publishing fees, waivers and Institutional agreements at Frontiers can be found at:
http://www.frontiersin.org/about/PublishingFees

Full details of our publishing model and philosophy can be found here:
http://home.frontiersin.org/about/publishing-model

Published articles will be free to access to all readers under CC-BY license. Authors retain the copyright to their own papers and figures. Your Research Topic will have a dedicated homepage on the Frontiers website, where contributing articles are accumulated and discussions can be easily held. Successful Research Topics that publish more than 10 articles will be compiled into a free e-book for widespread dissemination.

Subject **Invitation to review a manuscript for Applied Network Science** [redacted]

From Applied Network Science Editorial Office <em@editorialmanager.com>

Sender <em.apns.0.518f05.9a194dfc@editorialmanager.com>

To Marija Mitrovic <marija.mitrovic@ipb.ac.rs>

Reply-To Applied Network Science Editorial Office <editorial@appliednetsci.com>

Date 2017-03-01 11:19

CC: gaito@di.unimi.it

[redacted]

Dear Dr Mitrovic,

I would like to invite you to review the manuscript above which has been submitted to Applied Network Science. Further details including the full abstract can be found at the end of this email.

If you are able to review this submission please click on this link:

http://apns.edmgr.com/l.asp?i=1353&l=AROB78BH

If you are not able to review this submission please click on this link:

http://apns.edmgr.com/l.asp?i=1354&l=3ZMCPHNY

We ask reviewers to return their report within 30 days of agreeing to review, however if you need more time please do let us know as we may be able to arrange an alternative deadline.

You are requested to submit your review online by using the Editorial Manager system which can be found at:
http://apns.edmgr.com/

If you have forgotten your username or password please use the "Send Login Details" link to get your login information. For security reasons, your password will be reset.

In order to keep delays to a minimum, please accept or decline this invitation online as soon as possible. If you are unable to review the manuscript, we would be most grateful if you could suggest alternative reviewers.

Thank you for your time, and I look forward to hearing from you.

Best wishes,
Sabrina Gaito
Applied Network Science
https://appliednetsci.springeropen.com/

[redacted]

Subject **Invitation to review a manuscript for Computational Social Networks** [redacted]

From Computational Social Networks Editorial Office <em@editorialmanager.com>

Sender <em.cson.0.525b87.c3f76f06@editorialmanager.com>

To Marija Mitrović <marija.mitrovic@ipb.ac.rs>

Reply-To Computational Social Networks Editorial Office <editorial@computationalsocialnetworks.com>

Date 2017-04-06 19:52

[redacted]

Dear Dr Mitrović,

I would like to invite you to review the manuscript above which has been submitted to Computational Social Networks. Further details including the full abstract can be found at the end of this email.

If you are able to review this submission please click on this link:

http://cson.edmgr.com/l.asp?i=1917&l=CNJTOPVA

If you are not able to review this submission please click on this link:

http://cson.edmgr.com/l.asp?i=1918&l=1NCMS6IC

We ask reviewers to return their report within 30 days of agreeing to review, however if you need more time please do let us know as we may be able to arrange an alternative deadline.

You are requested to submit your review online by using the Editorial Manager system which can be found at:
http://cson.edmgr.com/

Your username is: Marija Mitrović
Your password is: available at this link http://cson.edmgr.com/Default.aspx?pg=accountFinder.aspx&firstname=Marija&lastname=Mitrovi%c4%87&email_address=marija.mitrovic@ipb.ac.rs

In order to keep delays to a minimum, please accept or decline this invitation online as soon as possible. If you are unable to review the manuscript, we would be most grateful if you could suggest alternative reviewers.

Thank you for your time, and I look forward to hearing from you.

Best wishes,
Chantal Cherifi
Computational Social Networks
https://computationalsocialnetworks.springeropen.com/

[redacted]

Reviewer Info

Review Guidelines

Terms & Conditions

Tasks and Targets

Contact Editorial Office

Manage Articles

Invitations 0

All Articles 2

In Review 0

Final Validation 0

Accepted 0

Published 2

Rejected 0

ALL ARTICLES

Displayed are all articles.

Results Per Page: 5 Per Page

Select Article Stage: All

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Search

Displaying 1 - 2 of 2 Articles

	Authors and Title	Article Type	Journal / Section	Edited By	Submitted
☐	Fister, Fister, Perc Towards the discovery of citation cartels in...	Perspective	Interdisciplinary Physics	Antonio F. Miguel	02.11.2016
☐	Tanase, Garcia, ..., Schweitzer Emotions and Activity Profiles of Influential...	Original Research	Interdisciplinary Physics	Taha Yasseri	26.06.2015

Displaying 1 - 2 of 2 Articles

Enter review forum

Back to top

Home
About Frontiers
Journals A-Z
Institutional Membership

Contact
Media Relations
News
Blog

Submit
FAQs
Terms & Conditions

Newsletters
RSS/Twitter
Team
Careers

© 2007 - 2017 Frontiers Media S.A. All Rights Reserved

Subject **FW: [JSTAT] Editor selects referee for document** [redacted]

From Mitrovic Marija <marija.mitrovic@aalto.fi>

To mitrovic@ipb.ac.rs <mitrovic@ipb.ac.rs>

Date 2015-06-26 17:59

From: JSTAT Editorial Office [jstat-eo@jstat.sissa.it]
Sent: Wednesday, June 24, 2015 8:56 PM
To: Mitrovic Marija
Cc: JSTAT Editorial Office
Subject: [JSTAT] Editor selects referee for document [redacted]

[redacted]
Authors: [redacted]
Title: [redacted]

Dear Dr Marija Mitrovic,

In view of your expertise in this area, I would appreciate it if you could review the submission JSTAT_051P_0615.

The criteria for acceptance of a preprint by JSTAT are high scientific quality, originality and relevance. If you consider this preprint acceptable for publication, please comment on how it meets these criteria.

To keep JSTAT's very high standards your expertise and promptness in responding is essential.

Please connect to the preprint status page:

http://jstat.sissa.it/jstat/referee/docPage.jsp?docPgType=work&docId=JSTAT_051P_0615

where you will find all the information needed.

In order to let me know your intentions, please use the "ACCEPT/DECLINE ASSIGNMENT" tool within 3 days. In the hope that you will accept this assignment, we ask you to please bear in mind that your report is expected within 4 weeks.

AFTER you have accepted this assignment, a report form to be filled out and sent to me will be available on your pages (button "SEND REPORT"), as well as an e-mail tool for communicating with me in case you need assistance. Please make sure you always use this for sending messages about this preprint so that a record can be kept.

Thank you in advance for your help and best regards,

Damien Challet
JSTAT Editor

Subject **PLOS ONE Thank You for Reviewing in 2014**
From PLOS ONE <plosone@e.plos.org>
To <mitrovic@ipb.ac.rs>
Reply-To PLOS Reviewer <reply-fefe1576776c04-3544_HTML-16122216-7207856-106@e.plos.org>
Date 2015-05-20 00:26

View this email in your browser

Marija Mitrovic
PLOS ONE Reviewer (2014)

May 2015

Dear Marija,

On behalf of PLOS and the *PLOS ONE* editorial team, I would like to thank you for participating in the peer review process this past year at *PLOS ONE*. We very much appreciate your valuable input in 2014. We know there are many claims on your time and expertise but with your help, we have continued to publish an influential, lively and highly accessed Open Access journal. Simply put, we could not do it without you and the thousands of other volunteers for *PLOS ONE* and the other PLOS journals who graciously contributed time reviewing manuscripts.

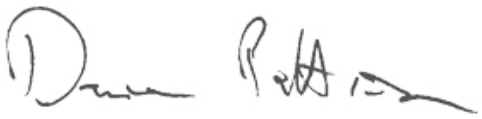
A public “Thank You” to our 2014 reviewers – including you – was published in February 2015.

> (2015) PLOS ONE 2014 Reviewer Thank You. PLoS ONE 10(2): e0121093. doi:10.1371/journal.pone.0121093

Your name is listed in the Supporting Information file associated with the article. I hope that you will be able to use this letter, along with the article citation, to claim the credit and recognition you deserve within your institution for supporting *PLOS ONE* and Open Access publishing.

If you would ever like to provide feedback on our processes, we would very much welcome that. Please send your feedback to us at plosone@plos.org.

With Gratitude,



Damian Pattinson
Editorial Director
PLOS ONE

P.S. If you'd like to receive news and information from PLOS, opt-in here.

This email has been sent to mitrovic@ipb.ac.rs (please do not reply to this email as it is sent from a non-monitored account).

unsubscribe from this list update subscription preferences

Public Library of Science
1160 Battery St Ste 100
San Francisco, CA 94111-1233, US

Subject **PLOS ONE Thank You for Reviewing in 2015**
From PLOS ONE <plosone@e.plos.org>
To <mitrovic@ipb.ac.rs>
Reply-To PLOS ONE <reply-fec015747d630278-8597_HTML-16122216-7207856-38@e.plos.org>
Date 2016-02-25 19:41

View this email in your browser

Marija Mitrovic Dankulov
PLOS ONE Reviewer (2015)

February 2016

Dear Marija Mitrovic Dankulov,

On behalf of PLOS and the *PLOS ONE* editorial team, I would like to thank you for participating in the peer review process this past year at *PLOS ONE*.

We know there are many claims on your time and expertise and we very much appreciate your valuable input in 2015. With your help, we have continued to publish an influential, lively and highly accessed Open Access journal. Simply put, we could not do it without you and the thousands of other volunteers for *PLOS ONE* and the other PLOS journals who graciously contributed time reviewing manuscripts.

A public "Thank You" to our 2015 reviewers – including you – was published earlier this week.

> (2016) *PLOS ONE* 2015 Reviewer Thank You. PLoS ONE 11(2): e0150341. doi:10.1371/journal.pone.0150341

Your name is listed in the Supporting Information file associated with the article. I hope that you will be able to use this letter, along with the article citation, to claim the credit and recognition you deserve within your institution for supporting *PLOS ONE* and Open Access publishing.

If you would ever like to provide feedback on your experience, we would very much welcome that. Please send feedback to plosone@plos.org.

With gratitude,

Iratxe Puebla, Managing Editor
PLOS ONE

Veronique Kiermer, Executive Editor
PLOS

P.S. If you'd like to receive news and information from PLOS, opt-in here.

Public Library of Science
1160 Battery St. Suite 100
San Francisco, CA, 94111-1233, US

Unsubscribe – Update Preferences

Subject **Manuscript [redacted] for review**

From Quality & Quantity (QUQU) <em@editorialmanager.com>

Sender <em.ququ.0.50ee66.f260b85a@editorialmanager.com>

To Marija Mitrovic <mitrovic@ipb.ac.rs>

Reply-To Quality & Quantity (QUQU) <mahalakshmi.mariappan@springer.com>

Date 2017-01-31 22:00

Dear Prof. Mitrovic,

In view of your expertise I would be very grateful if you could review the following manuscript which has been submitted to Quality & Quantity.

Manuscript Number: [redacted]

Title: [redacted]

Abstract: Human dynamics and sociophysics suggest statistical models that may explain and provide us with a better understanding of social phenomena. Here we propose a generative multiplicative decrease model that gives rise to a rank-order distribution and allows us to analyse the results of the last three UK parliamentary elections. We provide empirical evidence that the additive Weibull distribution, which can be generated from our model, is a close fit to the electoral data, offering a novel interpretation of the recent election results.

In case you accept to review this submission please click on this link:

http://ququ.edmgr.com/l.asp?i=14997&l=QGHDX3O5

If you do not have time to do this, or do not feel qualified, please click on this link:

http://ququ.edmgr.com/l.asp?i=14998&l=WBK7EZUY

We hope you are willing to review the manuscript. If so, would you be so kind as to return your review to us within 28 days of agreeing to review? Thank you.

You are requested to submit your review online by using
the Editorial Manager system which can be found at:
http://ququ.edmgr.com/.

Your username is: Marija Mitrovic
Your password is: available at this link http://ququ.edmgr.com
/Default.aspx?pg=accountFinder.aspx&firstname=Marija&lastname=Mitrovic&
email_address=mitrovic@ipb.ac.rs

IN ORDER TO KEEP DELAYS TO A MINIMUM, PLEASE ACCEPT OR DECLINE THIS ASSIGNMENT ONLINE AS SOON AS POSSIBLE!

If you have any questions, please do not hesitate to contact us. We appreciate your assistance.

With kind regards,
Vittorio Capecchi

Subject **SREP-16-33937 Review Instructions for Scientific Reports**

From <scientificreports@nature.com>

To <mitrovic@ipb.ac.rs>

Date 2016-08-26 20:18

Dear Dr Mitrovic Dankulov,

Thank you for agreeing to review the manuscript [redacted]

Papers published in Scientific Reports should be technically sound and scientifically valid. i.e. the methods must be appropriate and properly conducted, and the conclusions drawn must be fully supported by the data presented.

Scientific Reports, unlike other journals published by Nature Publishing Group, does not assess papers based on perceived importance, significance or impact. Referees are not asked to make a judgement on the importance of the study – we ask the scientific community to make this judgement themselves post-publication.

The review form will rapidly allow you to provide feedback in the following areas:

- Is the paper technically sound?
- Are the claims convincing? If not, what further evidence is needed?
- Are the claims fully supported by the experimental data?
- Are the claims appropriately discussed in the context of previous literature?
- If the manuscript is unacceptable in its present form, does the study seem sufficiently promising that the authors should be encouraged to consider a resubmission in the future?

In addition to answering the previous questions, you can provide further information as free-text, including comments that may answer the following:
- Is the manuscript clearly written? If not, how could it be made more accessible?
- Have the authors done themselves justice without overselling their claims?
- Have they been fair in their treatment of previous literature?
- Have they provided sufficient methodological detail that the experiments could be reproduced?
- Is the statistical analysis of the data sound?
- Are there any special ethical concerns arising from the use of animals or human subjects?

To access the manuscript, review form, and instructions please click on the link below.

http://mts-srep.nature.com/cgi-bin/main.plex?el=A6CG7pDz3A2BUal4F7A9ftdw6BNZ4kb0zCLGcqYtlj1QZ

Please visit our guide to referees for more information: http://www.nature.com/srep/referees/index.html

If you are unable to complete the review or expect significant delays, please contact us immediately via e-mail.

The contents of the manuscript are, of course, confidential until published.

Regards,

Manuscript Administration

Scientific Reports
4 Crinan Street
London N1 9XW
E-mail: scientificreports@nature.com

This email has been sent through the NPG Manuscript Tracking System NY-610A-NPG&MTS

Confidentiality Statement:

This e-mail is confidential and subject to copyright. Any unauthorised use or disclosure of its contents is prohibited. If you have received this email in error please notify our Manuscript Tracking System Helpdesk team at http://platformsupport.nature.com .

Details of the confidentiality and pre-publicity policy may be found here http://www.nature.com/authors/policies/confidentiality.html

Privacy Policy | Update Profile