

# SANTO FORTUNATO

Center for Complex Networks and  
Systems Research,  
School of Informatics and  
Computing, Indiana University,  
919 East 10th Street, 47408  
Bloomington, Indiana, USA

Email: [santo@indiana.edu](mailto:santo@indiana.edu)  
Phone: +1-812-606-6240  
Website:

<https://sites.google.com/site/santofortunato/>

## Education

27/11/2000	PhD degree, grade: summa cum laude
03/1998 to 11/2000	PhD student, Department of Physics, University of Bielefeld (Germany)
19/07/1995	University degree, grade: 110/110 cum laude
11/1989 to 07/1995	University of Catania (Italy), Department of Physics

## Professional Experience

Since 08/2016	Professor at the Center for Complex Networks and Systems Research, School of Informatics and Computing, Indiana University, Bloomington, IN, USA
03/2014 to 07/2016	Professor of Complex Systems, Department of Biomedical Engineering and Computational Science (BECS), School of Science, Aalto University, Aalto, Finland [ <b>first promotion to full professor in the history of Aalto (2010-)</b> ]
01/2014 to 02/2014	Visiting professor at the Department of Economics of the University of Zürich
10/2011 to 02/2014	Associate Professor of Complex Systems, Department of Biomedical Engineering and Computational Science (BECS), School of Science, Aalto University, Aalto, Finland
01/2013 to 03/2013	Visiting professor at the Social Computing Group of HP Labs, Palo Alto, USA
09/2009 to 09/2012	Leader of the Sociophysics Lab, Institute for Scientific Interchange (ISI), Torino (Italy)
Academic year 2009/2010	Invited Professor (one month) at the École des hautes études en sciences sociales (EHESS), Paris (France)

Academic year 2008/2009	Invited Professor (one month) at the University of Aveiro (Portugal)
Academic year 2007/2008	Invited Professor (one month) at the Université de Provence, Marseille (France)
02/2007 to 08/2009	Research Scientist, Institute for Scientific Interchange (ISI), Torino (Italy)
03/2006 to 08/2006	Visiting Research Associate in Complex Systems Theory, Institute for Scientific Interchange (ISI), Torino (Italy)
02/2005 to 01/2007	PostDoctoral Research Scholar, School of Informatics, Indiana University, Bloomington, USA
12/2000 to 01/2005	PostDoctoral Research Scholar, Department of Physics, University of Bielefeld (Germany)
09/1995 to 06/1997	Research Scholar of the Swedish Institute, Royal Institute of Technology (KTH), Stockholm (Sweden)
08/1994 to 09/1994	Internship, Gesellschaft für Schwerionenforschung (GSI), Darmstadt (Germany)

## Awards, Fellowships, Memberships

- Member of the Founding Board of the International Society for Computational Social Science (ISCSS).
- [Young Scientist Award for Socio- and Econophysics \(2011\)](#)
- EPL Distinguished Referee (2010, 2011, 2013, 2014, 2015)
- Member of the European Physical Society (since 2011)
- APS Outstanding Referee Award (2010).
- Member of the German Physical Society (since 2009)
- Fellowship of the Volkswagen Foundation (2005).
- Award of the Westfälisch-Lippische Universitätsgesellschaft for the best PhD Thesis in Physics of the year 2000 at the University of Bielefeld (November 2001).
- International fellowship of the Swedish Institute (September 1995-June 1997).
- “Alfiere del lavoro”, award of the Federazione Nazionale dei Cavalieri del Lavoro to the 25 best Italian high school students of the year (Rome, November 1989).

## Grants

- Co-PI of SoBigData, Infrastructure Grant of Horizon 2020 by the European Commission. From September the 1<sup>st</sup>, 2015 till August the 31<sup>st</sup>, 2019. Budget: 5,900,000 Euro (share 425,000 Euro). Grant agreement no. 654024.
- Coordinator (equivalent to PI) of the Thematic Institute *Challenges in Large Geometric Structure and Big Data* of the Aalto Science Institute. From September 2014 till December 2017. Budget: approx. 600,000 Euro (each year's budget is decided the year before).
- MC member of PEERE, COST Action TD1306. From 2014 till 2018. Budget: approx. 600,000 Euro.
- Vice-Chair of *KNOWeSCAPE*, COST Action TD1210. From April 2013 till March 2017. Budget: approx. 600,000 Euro.
- Co-PI of *Multiplex*, Integrated Project (IP) of the Seventh Framework Program (FP7) of the European Commission. From November the 1<sup>st</sup>, 2012 to October the 31<sup>st</sup>, 2016. Budget: 5,100,000 Euro (share 262,978 Euro). Grant agreement no. 317532.
- Co-PI of *ICTeCollective*, Specific Targeted Research Project (STREP) within the Future and Emerging Technologies Open Scheme (FET Open) of the Seventh Framework Program (FP7) of the European Commission. From October the 1<sup>st</sup>, 2009 to September the 30<sup>th</sup>, 2012. Budget: 2,000,000 Euro (share 324,735 Euro). Grant agreement no. 238597.
- Grant of the Volkswagen Foundation obtained within the initiative "New Conceptual Approaches to Modeling and Simulation of Complex Systems": from January the 15th 2005 to January the 14th 2007. Budget: 60,000 Euro.

## Professional Service

### Editor

Member of the Editorial Board of Journal of Statistical Physics, EPJ Data Science and Journal of Data and Information Science. Editor of special issue of Journal of Statistical Physics on applications of statistical mechanics to social phenomena (co-editors: Joel Lebowitz, Sidney Redner, Michael Macy).

### Referee

Science, Nature, Nature Communications, Nature Physics, PNAS, Physical Review Letters, Scientific Reports, PLoS ONE, Physical Review E, JSTAT, Journal of the Royal Society Interface, Journal of Physics A, Europhysics Letters, Journal of Statistical Physics, New Journal of Physics, European Physical Journal B, Physics Letters A, Physica A, International Journal of Modern Physics B, International Journal of Modern Physics C, Advances in Complex Systems, Chaos, Journal of Complex Networks, Internet Mathematics, Computer Networks, Social Networks, Networks and Heterogeneous Media, New Review of Hypermedia and Multimedia, Pattern Recognition, Discrete Applied Mathematics, Ecology, Environment and Planning B, Organization Science, Computational and Mathematical Organization Theory, ACM Computing Surveys, Data Mining and Knowledge Discovery, Statistical Analysis and Data Mining, International Journal of Information Technology & Decision Making, International Journal of Neural Systems, Journal of Network and Computer Applications, Artificial Intelligence, IEEE/ACM Transactions on Networking, Transactions on Pattern Analysis and Machine Intelligence, Transactions on Systems, Man, and Cybernetics, Part B, Journal of Computational Science, Journal of Experimental Algorithmics, Mathematical Problems in Engineering, Journal of Advances in Information Fusion, Journal of Computer Mediated Communication, Frontiers of Computer Science in China, Chinese Physics Letters, Computer Communications, Annals of Operations Research, Journal of Computer Science and Technology, BMC Systems Biology and IEEE Proceedings Systems Biology.

## Program Committees

1. *SocInfo 2014*, 6<sup>th</sup> International Conference on Social Informatics, Barcelona, Spain, November 10-13 (2014).
2. *WebSci 2014*, ACM Conference on Web Science, Bloomington, Indiana, USA, June 23-26 (2014).
3. *ChASM 2014*, International Workshop on Computational Approaches to Social Modeling, Bloomington, Indiana, USA, June 24-26 (2014).
4. *CompleNet 2014*, International Workshop on Complex Networks, Bologna, Italy, March 12-14 (2014).
5. *WWW 2014*, International Conference on the World Wide Web, Seoul, South Korea, April 7-11 (2014).
6. *European Conference in Complex Systems 2013 (ECCS'13)*, Barcelona, Spain, September 16-20 (2013).
7. *COVENANT 2013*, Satellite Workshop of *ECCS'13*, Barcelona, Spain, September 16-20 (2013).
8. *CODYM 2013*, Satellite Workshop of *ECCS'13*, Barcelona, Spain, September 16-20 (2013).
9. *WWW 2013*, International Conference on the World Wide Web, Rio de Janeiro, Brazil, May 13-17 (2013).
10. *WWW 2012*, International Conference on the World Wide Web, Lyon, France, April 16-20 (2012).
11. *CODYM 2012*, Satellite Workshop of *ECCS'12*, Brussels, Belgium, September 3-7 (2012).
12. *CompleNet 2012*, International Workshop on Complex Networks, Melbourne, Florida, USA, March 7-9 (2012).
13. *Hypertext 2012 (HT 2012)*, 23<sup>rd</sup> ACM Conference on Hypertext and Hypermedia, Milwaukee, Wisconsin, USA, June 25<sup>th</sup>-June 28<sup>th</sup>, 2012.
14. *European Conference in Complex Systems 2012 (ECCS'12)*, Brussels, Belgium, September 3-7 (2012).
15. *Summer Solstice 2011*, International Conference on Discrete Models of Complex Systems, Turku, Finland, June 6-10 (2011).
16. *Complex Dynamics of Human Interactions*, Satellite Workshop of *ECCS'11*, Vienna, Austria, September 12-16 (2011).
17. *CODYM 2011*, Satellite Workshop of *ECCS'11*, Vienna, Austria, September 12-16 (2011).
18. *SENCS'2011*, International Symposium on Engineered & Natural Complex Systems: Modeling, Simulation & Analysis, Niagara Falls, Ontario, May 8-11 (2011).
19. *Valuetools 2011*, International ICST Conference on Performance Evaluation Methodologies and Tools, Paris, France, May 16-20 (2011).
20. *IEEE GLOBECOM Workshop on Complex and Communication Networks (CCNet 2010)*, Miami, USA, December 6-10 (2010).
21. *CompleNet 2010*, International Workshop on Complex Networks, Rio de Janeiro, Brazil, October 13-15 (2010).
22. *Engineered & Social Networks: Theory and Applications*, Workshop within the framework of 2010 *International Conference on Computational Science (ICCS 2010)*, Amsterdam, The Netherlands, May 31-June 2 (2010).
23. *VALUETOOLS 2009*, Fourth International Conference on Performance Evaluation Methodologies and Tools, Pisa, Italy, October 20-22 (2009).
24. *IEEE Symposium on Engineered & Natural Complex Systems: Modeling, Simulation and Analysis (SENCS)*, held at 2009 *IEEE Toronto International Conference Science and Technology for Humanity (TIC-STH 2009)*, Toronto, Ontario, Canada, September 27-29 (2009).
25. *Summer Solstice 2009*, International Conference on Discrete Models of Complex Systems, Gdansk, Poland, June 22-24 (2009).
26. International Workshop *TextGraphs-4: Graph-based Methods for Natural Language Processing*, Suntec, Singapore, August 2-7 (2009).
27. *European Conference on Complex Systems 2007 (ECCS'07)*, Dresden, Germany, October 1-5 (2007).

## Organization

1. Member of the organizing committee of [IC2S2 2016](#), 2<sup>nd</sup> International Conference on Computational Social Science, Kellogg School of Management, Evanston, USA, June 22-26, 2016.
2. Founding chair of [IC2S2 2015](#), 1<sup>st</sup> International Conference on Computational Social Science, Finlandia Hall, Helsinki, Finland, June 8-11, 2015.
3. Chair of the international workshop [Interaction Networks and Collective Motion in Swarms, Flocks and Crowds](#), Open Innovation House, Aalto University, Espoo, Finland, May 26-28, 2014.
4. Scientific organizer of international workshop [Mathematics of Social Learning](#), Institute of Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, USA, January 6-10, 2014.
5. Chair of the [First Annual Conference of the COST Action KNOWeSCAPE](#), Aalto University, Espoo, Finland, November 18-20, 2013.
6. Chair of the [Aalto Complex Networks Factory](#), School and Workshop on complex networks, Poorvo, Finland, June 4-8, 2012.
7. Scientific organizer of the Workshop *Web Epistemics*, Zentrum für interdisziplinäre Forschung, Bielefeld, Germany, February 15-17, 2012.
8. Workshop chair of [Hypertext 2009](#), 20<sup>th</sup> ACM Conference on Hypertext and Hypermedia, Torino, Italy, June 29<sup>th</sup>-July 1<sup>st</sup>, 2009.
9. Program chair of [CompleNet 2009](#), international workshop on Complex networks, Catania, Italy, May 26-28, 2009.
10. Organizer of the Workshop *Sociophysics: Status and Perspectives* at the Institute for Scientific Interchange, Turin (Italy), May 26-29, 2008.
11. Scientific organizer of a Satellite Workshop on *Social and Ecological Networks* at the European Conference on Complex Systems 2006 (ECCS'06), University of Oxford (UK), September 25-29.

## Boards and Other Committees

1. Reviewer for the Swedish Research Council.
2. Reviewer of the Institute of Medicine (IOM) of the National Academy of Sciences of the USA.
3. Member of the Scientific Panel of Social-IST (Social Collective Intelligence), project of the European Commission.
4. Reviewer of grant proposals for the Danish Council of Independent Research (2013).
5. Reviewer of grant proposals for the Complex Systems Institute Paris Ile-de-France (2012).
6. Reviewer of grant proposals submitted for the CHIST-ERA Call 2011.
7. Reviewer of grant proposals submitted to the Dutch Technology Foundation STW (2011)
8. Member of the advisory board of QLectives, Integrated Project of the 7<sup>th</sup> Framework Programme of the European Commission.
9. FNRS, Belgium, external expert for the evaluation of grants and research positions.
10. Zentrum für interdisziplinäre Forschung (ZiF), Bielefeld, Germany. External expert for evaluation of Workshop proposals.
11. Reviewer of grant proposal submitted to the US-Israel Binational Science Foundation (March 2007).

## Master students

1. Nicola Perra, Physics Department, University of Cagliari (Italy). Diploma thesis (Italian "Laurea") "Diffusion processes and centrality measures in complex networks", October 2007.
2. Andrea Lancichinetti, Physics Department, University of Pavia (Italy). Diploma thesis (Italian "Laurea") "A new algorithm for community detection in complex networks", December 2007.

3. Matteo Bertani, Physics Department, University of Pavia (Italy). Diploma thesis (Italian “Laurea”) “Opinion dynamics on the square lattice”, March 2008.
4. Andrea Riboldi, Department of Biomedical Engineering and Computational Science, Aalto University (Finland). Diploma thesis (Italian “Laurea”).

### PhD students

1. Andrea Lancichinetti (Politecnico di Torino and ISI Foundation, Italy). Start in academic year 2008-2009, PhD obtained in February 2012. PhD thesis: “Clustering in graphs”.
2. Pietro della Briotta Parolo (Aalto University). Since February 2013.
3. Darko Hric (Aalto University). Since February 2013.

### Assignments as public examiner/opponent

1. External examiner of PhD defense of Lucas Jeub, Mathematical Institute, Oxford, UK (November 2015).
2. External examiner of PhD defense of Juan Fernández Gracia, IFISC, Mallorca, Spain (February 2014).
3. External examiner of PhD defense of Atieh Mirshahvalad, Department of Physics, University of Umeå, Sweden (September 2013).
4. External examiner of PhD defense of Adrien Friggeri, Department of Computer Science, École Normale Supérieure de Lyon, France (August 2012).
5. External expert of Master project exam for Braunschweig Raphaël, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland (July 2012).
6. External examiner of PhD defense of Giovanni Luca Ciampaglia, Department of Computer Science, University of Lugano, Switzerland (December 2011).
7. External examiner of PhD defense of Kathryn Cooper, Department of Bioengineering and Institute for Mathematical Sciences, Imperial College London, UK (January 2010).
8. Member of jury for PhD defense of Christian Borghesi, Service de Physique de l’État Condensé, CEA Saclay, Paris, France (September 2009).
9. External examiner of PhD defense of Jussi Kumpula, Department of Biomedical Engineering and Computational Science, Helsinki University of Technology, Espoo, Finland (November 2008).
10. External examiner of PhD defense of David Smith, Mathematical Institute, Oxford, UK (December 2007).

### Software and On-Line Resources

- Designer of NetCom Analyzer (<http://www.netcom-analyzer.org>), a portal for the analysis of networks’ community structure.
- Software developer of the Network Workbench (<http://nwb.slis.indiana.edu>), a large-scale Network Analysis, Modeling and Visualization Toolkit for Biomedical, Social Science and Physics Research. Supported in part by the NSF IIS-0513650 award.

## Teaching

### Aalto University

Winter term 2014/2015

Course on Non-equilibrium Statistical Physics (BECS-L4071)

Winter terms 2012/2013, 2013/2014,  
2014/2015, 2015/2016

Course on Nonlinear Dynamics and Chaos  
(BECS-114.7151)

Spring terms 2011/2012, 2012/2013,  
2013/2014 & winter term 2015/2016

Course on Mathematical Modelling of Social  
Dynamics (BECS-E4101)

### University of Jyväskylä

Summer 2012

Course on Complex Networks at Jyväskylä's  
summer school

### University of Zurich

Winter term 2013/2014

Block course on Complex Networks at the  
Department of Economics

### Université Catholique de Louvain

Spring term 2009/2010

Course on Complex Networks for the Graduate  
School

### University of Torino

Spring terms 2010/2011, 2011/2012,  
2012/2013, 2013/2014

Block courses on Sociophysics and Complex  
Networks for the students of the School of High  
Studies of Torino

Spring terms 2008/2009, 2009/2010

Course on Physics of Complexity in Social  
Systems for undergraduate students of the  
Physics Department

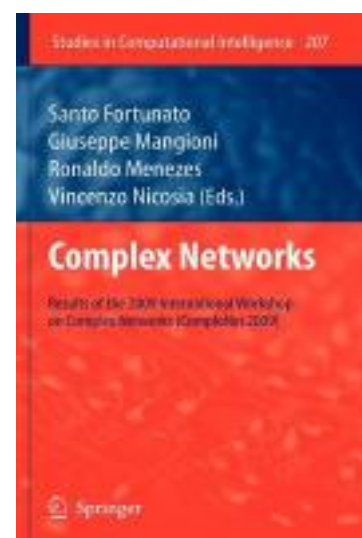
Spring term 2007/2008

Block course on Complex Networks for the PhD  
on Complexity

## Publications

### Edited Books

- Santo Fortunato, Ronaldo Menezes, Giuseppe Mangioni, Vincenzo Nicosia (Editors)  
*Complex Networks*,  
Proceedings of *CompleNet 2009*, International Workshop on  
Complex Networks, held in Catania, Italy, on May 26-27, 2009.  
The volume belongs to Springer's series *Studies in Computational  
Intelligence*.



## Book Chapters

- Filippo Radicchi, Santo Fortunato, Alessandro Vespignani  
*Citation Networks*  
in *Models of Science Dynamics*,  
Eds. A. Scharnhorst, K. Börner, P. van den Besselaar,  
Springer, Berlin-Heidelberg (2012).
- Santo Fortunato, Claudio Castellano arXiv:0712.2716  
*Community structure in graphs*  
Chapter of Springer's *Encyclopedia of Complexity and  
System Science* (2009).
- Santo Fortunato, Dietrich Stauffer cond-mat/0501730  
*Computer Simulations of Opinions and Their Reactions to Extreme  
Events*  
in *Extreme Events in Nature and Society*,  
Eds. S. Albeverio, V. Jentsch, H. Kantz,  
Springer, Berlin-Heidelberg (2006).

## Reviews

- Santo Fortunato, Darko Hric arXiv:1608.00163  
*Community detection in networks: A user guide*
- Santo Fortunato arXiv:0906.0612  
*Community detection in graphs*  
Physics Reports **486**, 75-174 (2010).

### Most Cited Article of Physics Reports since 2009

<http://www.journals.elsevier.com/physics-reports/most-cited-articles/>

- Claudio Castellano, Santo Fortunato, Vittorio Loreto arXiv:0710.3256  
*Statistical physics of social dynamics*  
Reviews of Modern Physics **81**, 591-646 (2009).

**New Hot Paper in Physics**, Thomson Reuters (ISI Web of Science), November 2010.

<http://sciencewatch.com/dr/nhp/2010/10novnhp/10novnhpCast/>

## Journals

1. R. K. Pan, A. M. Petersen, F. Pammolli, S. Fortunato arXiv:1607.05606  
*The memory of science: inflation, myopia and the knowledge  
network*  
Under review.
2. R. K. Darst, C. Granell, A. Arenas, S. Gómez, J. Saramäki,  
S. Fortunato arXiv:1604.00758  
*Detection of time scales in evolving complex systems*  
Under review.



3. D. Hric, T. P. Peixoto, S. Fortunato arXiv:1604.00255  
*Network structure, metadata and the prediction of missing nodes and annotations*  
 Physical Review X, to appear.
4. S. Sarkar, S. Chawla, P. A. Robinson, S. Fortunato arXiv:1510.07064  
*Eigenvector dynamics under perturbations of modular networks*  
 Physical Review E **93**, 062312 (2016).
5. L. Cantini, E. Medico, S. Fortunato, M. Caselle arXiv:1507.08415  
*Detection of gene communities in multi-networks reveals cancer drivers*  
 Scientific Reports **5**, 17386 (2015)
6. Y.-H. Eom, A. Perna, S. Fortunato, E. Darrouzet, G. Theraulaz, C. Jost arXiv:1506.04965  
*Network-based model of the growth of termite nests*  
 Physical Review E **92**, 062810 (2015)
7. C. Orsini, M. Mitrović Dankulov, A. Jamakovic, P. Mahadevan, P. Colomer-de-Simón, A. Vahdat, K. E. Bassler, Z. Toroczkai, M. Boguñá, G. Caldarelli, S. Fortunato, D. Krioukov arXiv:1505.07503  
*Quantifying randomness in real networks*  
 Nature Communications **6**, 8627 (2015).
8. P. Della Briotta Parolo, R. K. Pan, R. Ghosh, B. H. Huberman, K. Kaski, S. Fortunato arXiv:1503.01881  
*Attention decay in science*  
 Journal of Informetrics **9**, 734-745 (2015).
9. G. Bianconi, R. K. Darst, J. Iacovacci, S. Fortunato arXiv:1407.1664  
*Triadic closure as a basic generating mechanism of communities in complex networks*  
 Physical Review E **90**, 042806 (2014).
10. D. Hric, R. K. Darst, S. Fortunato arXiv:1406.0146  
*Community detection in networks: structural communities versus ground truth*  
 Physical Review E **90**, 062805 (2014).
11. A. M. Petersen, S. Fortunato, R. Kumar Pan, K. Kaski, O. Penner, A. Rungi, M. Riccaboni, H. E. Stanley, F. Pammolli arXiv:1303.7274  
*Reputation and impact in academic careers*  
 Proceedings of the National Academy of Sciences of the USA **111** (43), 15316-15321 (2014).
12. F. Becattini, A. Chatterjee, S. Fortunato, M. Mitrović, R. K. Pan, P. Della Briotta Parolo  
*Growing time lag threatens Nobels*  
 Nature **508**, 186 (2014).
13. S. Fortunato, J. Saramäki, J.-P. Onnela  
*Adding network structure onto the map of collective behaviour*  
 Behavioral and Brain Sciences **37**, 82-83 (2014).
14. R. K. Darst, Z. Nussinov, S. Fortunato arXiv:1311.3984

*Improving the performance of algorithms to find communities in networks*

Physical Review E **89**, 032809 (2014).

15. R. K. Pan, S. Fortunato arXiv:1312.2650  
*Author impact factors: tracking the dynamics of individual scientific impact*  
Scientific Reports, **4**, 4880 (2014).
16. O. Penner, R. Kumar Pan, A. M. Petersen, K. Kaski, S. Fortunato arXiv:1306.0114  
*On the predictability of future impact in science*  
Scientific Reports **3**, 3052 (2013).
17. S. Fortunato, M. Macy, S. Redner arXiv:1304.1171  
*Editorial: Statistical Mechanics and Social Sciences, special issue of Journal of Statistical Physics*  
Journal of Statistical Physics **151** (1), 1-8 (2013).
18. O. Penner, R. Kumar Pan, A. M. Petersen, S. Fortunato arXiv:1304.0627  
*The case for caution in predicting scientists' future impact*  
Physics Today **66** (4), 8-9 (2013).
19. A. Chatterjee, M. Mitrović, S. Fortunato arXiv:1212.2142  
*Universality in voting behaviour: an empirical analysis*  
Scientific Reports **3**, 1049 (2013).
20. R. Kumar Pan, K. Kaski, S. Fortunato arXiv:1209.0781  
*World citation and collaboration networks: uncovering the role of geography in science*  
Scientific Reports **2**, 902 (2012).
21. A. Lancichinetti, S. Fortunato arXiv:1203.6093  
*Consensus clustering in complex networks*  
Scientific Reports **2**, 336 (2012).
22. S. Fortunato, C. Castellano arXiv:1210.2426  
*Physics peeks into the ballot box*  
Physics Today **65**, 74-75 (2012).
23. A. Lancichinetti, S. Fortunato arXiv:1107.1155  
*Limits of modularity maximization in community detection*  
Physical Review E **84**, 066122 (2011).
24. A. Mazloumian, Y.-H. Eom, D. Helbing, S. Lozano, S. Fortunato arXiv:1105.1917  
*How citation boosts promote scientific paradigm shifts and Nobel Prizes*  
PLoS One **6**, e18975 (2011).
25. Y.-H. Eom, S. Fortunato arXiv:1110.2153  
*Characterizing and modeling citation dynamics*  
PLoS One **6**, e24926 (2011).
26. A. Lancichinetti, F. Radicchi, J. J. Ramasco, S. Fortunato arXiv:1012.2363  
*Finding statistically significant communities in networks*  
PLoS One **6**, e18961 (2011).

27. F. Radicchi, J. J. Ramasco, S. Fortunato arXiv:1009.2913  
*Information filtering in complex weighted networks*  
 Physical Review E **83**, 046110 (2011).
28. J. Ratkiewicz, S. Fortunato, A. Flammini, F. Menczer, A. Vespignani arXiv:1005.2704  
*Characterizing and modeling the dynamics of online popularity*  
 Physical Review Letters **105**, 158701 (2010).
29. A. Lancichinetti, M. Kivelä, J. Saramäki, S. Fortunato arXiv:1005.4376  
*Characterizing the community structure of complex networks*  
 PLoS One **5**, e11976 (2010).
30. F. Radicchi, S. Fortunato arXiv:0911.3549  
*Explosive percolation: a numerical analysis*  
 Physical Review E **81**, 036110 (2010).
31. A. Lancichinetti, S. Fortunato arXiv:0908.1062  
*Community detection algorithms: a comparative analysis*  
 Physical Review E **80**, 056117 (2009).
32. F. Radicchi, S. Fortunato, B. Markines, A. Vespignani arXiv:0907.1050  
*Diffusion of scientific credits and the ranking of scientists*  
 Physical Review E **80**, 056103 (2009).
33. F. Radicchi, S. Fortunato arXiv:0907.0755  
*Explosive percolation in scale-free networks*  
 Physical Review Letters **103**, 168701 (2009).
34. S. Mandrà, S. Fortunato, C. Castellano arXiv:0906.2471  
*Coevolution of Glauber-like Ising dynamics and topology*  
 Physical Review E **80**, 056105 (2009).
35. S. Fortunato, M. Boguñá, A. Flammini, F. Menczer cs.IR/0511016  
*On Local Estimations of PageRank: a Mean Field Approach*  
 Internet Mathematics **4**, 245-266 (2009).
36. A. Lancichinetti, S. Fortunato arXiv:0904.3940  
*Benchmark for testing community detection algorithms on directed and weighted graphs with overlapping communities*  
 Physical Review E **80**, 016118 (2009).
37. F. Radicchi, A. Barrat, S. Fortunato, J. J. Ramasco arXiv:0811.2761  
*Renormalization flows in complex networks*  
 Physical Review E **79**, 026104 (2009).
38. A. Lancichinetti, S. Fortunato, F. Radicchi arXiv:0805.4770  
*Benchmark graphs for testing community detection algorithms*  
 Physical Review E **78**, 046110 (2008).
39. S. Fortunato, M. Boguñá, A. Flammini, F. Menczer cs.IR/0511016  
*How to make the top ten: Approximating PageRank from in-degree*  
 Lecture Notes in Computer Science **4936**, 59-71 (2008).
40. N. Perra, S. Fortunato arXiv:0805.3322  
*Spectral centrality measures in complex networks*  
 Physical Review E **78**, 036107 (2008).

41. F. Radicchi, J. J. Ramasco, A. Barrat, S. Fortunato arXiv:0803.3637  
*Complex networks renormalization: flows and fixed points*  
 Physical Review Letters **101**, 148701 (2008).
42. A. Lancichinetti, S. Fortunato, J. Kertész arXiv:0802.1218  
*Detecting the overlapping and hierarchical community structure of complex networks*  
 New Journal of Physics **11**, 033015 (2009).
43. F. Radicchi, S. Fortunato, C. Castellano arXiv:0806.0974  
*Universality of citation distributions: toward an objective measure of scientific impact*  
 Proceedings of the National Academy of Sciences of the USA **105** (45), 17268-17272 (2008).
44. A. Arenas, A. Fernández, S. Fortunato, S. Gómez arXiv:0710.0059  
*Motif-based communities in complex networks*  
 Journal of Physics A **41**, 224001 (2008).
45. S. Fortunato, M. Barthélemy physics/0607100  
*Resolution limit in community detection*  
 Proceedings of the National Academy of Sciences of the USA **104** (1), 36-41 (2007).
46. S. Fortunato, C. Castellano physics/0612140  
*Scaling and Universality in Proportional Elections*  
 Physical Review Letters **99**, 138701 (2007).
47. S. Schnell, S. Fortunato, S. Roy q-bio/0606029  
*Is the intrinsic disorder of proteins the cause of the scale-free architecture of protein-protein interaction networks?*  
 Proteomics **7** (6), 961-964 (2007).
48. S. Fortunato, A. Flammini physics/0604203  
*Random Walks on Directed Networks: the Case of PageRank*  
 International Journal of Bifurcation and Chaos **17** (7), 2343-2353 (2007).
49. M. Ángeles Serrano, M. Boguñá, A. G. Maguitman, S. Fortunato, A. Vespignani cs.NI/0511035  
*Decoding the structure of the WWW: A comparative analysis of Web crawls*  
 ACM Transactions on the Web **1** (2), paper 10 (2007).
50. S. Fortunato, A. Flammini, F. Menczer cond-mat/0602081  
*Scale-free network growth by ranking*  
 Physical Review Letters **96**, 218701 (2006).
51. S. Fortunato, A. Flammini, F. Menczer, A. Vespignani cs.CY/0511005  
*Topical interests and the mitigation of search engine bias*  
 Proceedings of the National Academy of Sciences of the USA **103** (34), 12684-12689 (2006).
52. Ph. Blanchard, S. Fortunato, T. Krüger cond-mat/0407434  
*Importance of extremists for the structure of social networks*  
 Physical Review E **71**, 056114 (2005).

53. S. Fortunato, V. Latora, A. Pluchino, A. Rapisarda physics/0504017  
*Vector Opinion Dynamics in a Bounded Confidence Consensus Model*  
 International Journal of Modern Physics C **16**,  
 issue 10, 1535-1551 (2005).
54. S. Fortunato cond-mat/0408648  
*On the Consensus Threshold for the Opinion Dynamics of Krause-Hegselmann*  
 International Journal of Modern Physics C **16**,  
 issue 2, 259-270 (2005).
55. S. Fortunato cond-mat/0407353  
*The Sznajd Consensus Model with Continuous Opinions*  
 International Journal of Modern Physics C **16**,  
 issue 1, 17-24 (2005).
56. S. Fortunato cond-mat/0405083  
*Damage Spreading and Opinion Dynamics on Scale Free Networks*  
 Physica A **348**, 683 (2005).
57. S. Fortunato, V. Latora, M. Marchiori cond-mat/0402522  
*A Method to Find Community Structures Based on Information Centrality*  
 Physical Review E **70**, 056104 (2004).
58. S. Fortunato cond-mat/0406054  
*Universality of the Threshold for Complete Consensus for the Opinion Dynamics of Deffuant et al.*  
 International Journal of Modern Physics C **15**,  
 issue 9, 1301-1307 (2004).
59. S. Fortunato cond-mat/0403670  
*The Krause-Hegselmann Consensus Model with Discrete Opinions*  
 International Journal of Modern Physics C **15**,  
 issue 7, 1021-1029 (2004).
60. S. Fortunato, A. Aharony, A. Coniglio, D. Stauffer cond-mat/0407276  
*Number of Spanning Clusters at the High-Dimensional Percolation Thresholds*  
 Physical Review E **70**, 056116 (2004).
61. Ph. Blanchard, S. Fortunato, H. Satz hep-ph/0401103  
*The Hagedorn Temperature and Partition Thermodynamics*  
 European Physical Journal C **34**, 361-366 (2004).
62. S. Digal, S. Fortunato, H. Satz hep-ph/0310354  
*Predictions for  $J/\Psi$  Suppression by Parton Percolation*  
 European Physical Journal C **32**, 547-553 (2004).
63. S. Fortunato, D. Stauffer, A. Coniglio cond-mat/0309006  
*Percolation in high dimensions is not understood*  
 Physica A **334/3-4**, 307-311 (2004).
64. S. Fortunato hep-lat/0207021

*Cluster Percolation and Critical Behaviour in Spin Models and SU(N) Gauge Theories*  
Journal of Physics A **36**, 4269 (2003).

65. S. Digal, S. Fortunato, P. Petreczky hep-lat/0304017  
*Heavy Quark Free Energies and Screening in SU(2) Gauge Theory*  
Physical Review D **68**, 034008 (2003).
66. S. Fortunato cond-mat/0205211  
*Critical Droplets and Phase Transitions in Two Dimensions*  
Physical Review B **67**, 014102 (2003).
67. S. Fortunato cond-mat/0204366  
*Site Percolation and Phase Transitions in Two Dimensions*  
Physical Review B **66**, 054107 (2002).
68. S. Digal, S. Fortunato, P. Petreczky, H. Satz hep-ph/0207264  
*Parton Percolation and J/ψ Suppression*  
Physics Letters B **549**, 101 (2002).
69. Ph. Blanchard, S. Fortunato, D. Gandolfo cond-mat/0112482  
*Euler Poincaré Characteristic and Phase Transition in the Potts Model on  $\mathbb{Z}^2$*   
Nuclear Physics B **644**, 495 (2002).
70. S. Fortunato, H. Satz hep-ph/0108058  
*Cluster Percolation and First Order Phase Transitions in the Potts Model*  
Nuclear Physics B **623**, 493 (2002).
71. S. Fortunato, H. Satz hep-lat/0103010  
*Cluster Percolation and Pseudocritical Behaviour in Spin Models*  
Physics Letters B **509**, 189 (2001).
72. S. Fortunato, H. Satz hep-lat/0007005  
*Percolation and Magnetization for Generalized Continuous Spin Models*  
Nuclear Physics B **598**, 601 (2001).
73. S. Fortunato, F. Karsch, P. Petreczky, H. Satz hep-lat/0011084  
*Effective Z(2) Spin Models of Deconfinement and Percolation in SU(2) Gauge Theory*  
Physics Letters B **502**, 321 (2001).
74. Ph. Blanchard, S. Digal, S. Fortunato, D. Gandolfo, T. Mendes, H. Satz hep-lat/0007035  
*Cluster Percolation in O(n) Spin Models*  
Journal of Physics A **33**, 8603 (2000).
75. P. Bialas, P. Blanchard, S. Fortunato, D. Gandolfo, H. Satz hep-lat/0003014  
*Percolation and Magnetization in the Continuous Spin Ising Model*  
Nuclear Physics B **583**, 368 (2000).
76. S. Fortunato, H. Satz hep-lat/9911020  
*Polyakov Loop Percolation and Deconfinement in SU(2) Gauge Theory*

Physics Letters B **475**, 311 (2000).

77. S. Fortunato, A. Insolia, R. J. Liotta, T. Vertse  
*Two-Particle-One-Hole Excitations in the Continuum*  
Physical Review C **54**, 3279 (1996).

## Proceedings

78. J. Ratkiewicz, S. Fortunato, A. Flammini, F. Menczer, A. Vespignani  
*Traffic in Social Media II: Modeling Bursty popularity*  
Proceedings of SocialCom 2010, Symposium on Social Intelligence  
and Networking (SIN-10). Paper ID SIN-246.
79. M.R. Meiss, F. Menczer, S. Fortunato, A. Flammini, A. Vespignani  
*Ranking Web Sites with Real User Traffic*  
Proceedings of the 2008 International Conference  
on Web Search and Data Mining (WSDM),  
Palo Alto, CA, USA, February 11-12, pp. 65-75. cs.IR/0511016
80. S. Fortunato  
*Quality Functions in Community Detection*  
Proceedings of SPIE International Conference  
"Fluctuations and Noise 2007",  
La Pietra Conference Center, Florence (Italy), 20-24 May 2007. arXiv:0705.4445
81. S. Fortunato  
*Monte Carlo Simulations of Opinion Dynamics*  
Proceedings of the International Conference  
"Complexity, Metastability and Nonextensivity"  
Ettore Majorana Foundation and Center for Scientific Culture  
Erice (Sicily) 20-26 July 2004. cond-mat/0501105
82. S. Digal, S. Fortunato, P. Petreczky  
*Heavy Quark Free Energies and Screening  
in SU(2) Gauge Theory*  
Proceedings of the International Workshop  
"Strong and Electroweak Matter 2002",  
Heidelberg (Germany), World Scientific, Singapor hep-lat/0211029
83. G. Andronico, A. Coniglio, S. Fortunato  
*A Geometrical Interpretation of Hyperscaling Breaking  
in the Ising Model*  
Proceedings of the XX International Symposium  
on Lattice Field Theory (LATTICE 2002),  
Boston, Massachusetts.  
Nuclear Physics B Proceedings Supplement **119**, 876 (2003). hep-lat/0208009
84. S. Fortunato  
*Sequential Quarkonium Suppression*  
Proceedings of the International Workshop  
"Quark Gluon Plasma and Heavy Ion Collisions",  
Laboratori Nazionali INFN, Frascati, Italy.  
Published in "Quark Gluon Plasma and Heavy Ion Collisions", World  
Scientific (2002).

85. S. Fortunato, H. Satz hep-lat/0109018  
*Cluster Percolation and Pseudocritical Behaviour in Spin Models*  
 Proceedings of the XIX International Symposium  
 on Lattice Field Theory (*LATTICE 2001*),  
 Berlin (Germany).  
 Nuclear Physics B Proceedings Supplement **106**, 890 (2002).
86. S. Fortunato, F. Karsch, P. Petreczky, H. Satz hep-lat/0010026  
*Percolation and Critical Behaviour in SU(2) Gauge Theory*  
 Proceedings of the XVIII International Symposium  
 on Lattice Field Theory (*LATTICE 2000*),  
 Bangalore (India).  
 Nuclear Physics B Proceedings Supplement **94**, 398 (2001).
87. S. Fortunato, H. Satz hep-lat/0007012  
*Percolation and Deconfinement in SU(2) Gauge Theory*  
 Proceedings of the 3rd Catania Relativistic Ion Studies  
 (*CRIS 2000*) Acicastello (Italy).  
 Nuclear Physics A **681**, 466 (2001).
88. S. Fortunato, H. Satz hep-lat/9908033  
*Percolation and Deconfinement in SU(2) Gauge Theory*  
 Proceedings of the XVII International Symposium  
 on Lattice Field Theory (*LATTICE '99*),  
 Pisa (Italy).  
 Nuclear Physics B Proceedings Supplement **83**, 452 (2000).

## Other Publications

- F. Becattini, A. Chatterjee, S. Fortunato, M. Mitrović, R. K. Pan, P. Della Briotta Parolo  
*The Nobel Prize delay*  
 Physics Today, May 2014.  
<http://scitation.aip.org/content/aip/magazine/physicstoday/news/10.1063/PT.5.2012>
- S. Fortunato  
*Reuven Cohen and Shlomo Havlin: Complex Networks*  
 Journal of Statistical Physics **142**, 640-641 (2011)
- F. Menczer, S. Fortunato, A. Flammini, A. Vespignani  
*Googearchy or Googlocracy ?*  
 Invited article on IEEE Spectrum on-line, February 2006  
<http://spectrum.ieee.org/feb06/2787>
- S. Fortunato  
*Percolation and Deconfinement in SU(2) Gauge Theory*  
 PhD Thesis, University of Bielefeld (Germany), 2000.  
 Advisor: Prof. H. Satz
- S. Fortunato  
*Two-Particle-One-Hole Excitations in the Continuum*  
 University Thesis, University of Catania (Italy), 1995.  
 Advisors: Profs. A. Insolia and R. J. Liotta



## Citation information

Citation statistics of my papers can be found at the following links:

<http://www.researcherid.com/rid/C-3586-2009>

according to Thomson Reuters (ISI Web of Science);

<http://scholar.google.com/citations?user=NDrCCokAAAAJ&hl=en>

according to Google Scholar.

## Talks & Posters

### • Invited talks

- 05/16            *ModSTI 2016*  
International Conference on Modeling Science, Technology and Innovation,  
National Academy of Sciences (NAS) Building,  
Washington, D. C., USA
- 01/16            *NetSci-X 2016*  
Winter Conference on Network Science,  
Wroclaw, Poland
- 08/15            *RUSSIR 2015*  
9<sup>th</sup> Russian Summer School on Information Retrieval,  
St. Petersburg, Russia
- 05/15            *EWGLA 2015*  
22<sup>nd</sup> Euro Working Group on Locational Analysis Meeting,  
Corvinus University of Budapest,  
Hungary
- 04/15            *ARS'15: Large Networks and Big Data: New Methodological Challenges*  
International Workshop on Social Network Analysis,  
Capri, Italy
- 01/15            *2<sup>nd</sup> Maribor Academicus Event, Academic Excellence: Between Holy Grail and Measurable Objectives*  
International Symposium,  
Maribor, Slovenia
- 12/14            *Computer and Computational Sciences for Exascale Computing*  
5<sup>th</sup> AICS International Symposium,  
RIKEN AICS, Kobe, Japan
- 11/14            Public lecture at the University of York, UK
- 11/14            *LIX Colloquium 2014 (Keynote Speaker, Opening Talk)*

- International Workshop on Data Science,  
École Polytechnique, Paris, France
- 10/14      **WISE 2014 (Keynote Speaker)**  
International Conference on Web Information System Engineering,  
Grand Hotel Palace, Thessaloniki, Greece
- 09/14      *Quantifying Success 2.0*  
Satellite Workshop of ECCS 2014,  
IMT Lucca, Italy
- 06/14      *35<sup>th</sup> Annual IATUL Conference*  
International Conference on Library Science,  
Aalto University, Espoo, Finland
- 05/14      *International Summer School on Network Science*  
Balatonfüred, Hungary
- 05/14      *Energy, Cities and the Control of Complex Systems*  
International Workshop,  
Erice, Italy
- 04/14      *Satellite Meeting on Reticulated Microbial Evolution (SMBE)*  
International Workshop,  
Kiel, Germany
- 04/14      *School of Physics of Les Houches*  
International School on Complex Networks,  
Les Houches, France
- 11/13      *ITIS 2013*  
International Conference on Information Technologies and Information Society,  
Dolenjske Toplice, Slovenia
- 10/13      *International School on Complex Networks,*  
Ribeirao Preto, Brazil
- 10/13      *INFORMS 2013*  
International Conference on Operation Research and Management Science,  
Minneapolis Convention Center, USA
- 07/13      *School on Biological Complex Networks: From the Cell to the Brain and Beyond*  
International Institute of Physics, Natal, Brazil
- 06/13      *Complexity in Social Systems: from Data to Models*  
International Workshop,  
Cergy-Pontoise University, Pontoise, France
- 06/13      *The Science of Success: Measurements and Predictions*  
International Workshop,  
Harvard University, Boston, USA
- 09/12      *Complexity Science and Social Science: At the Interface to the Real World (Keynote Speaker)*  
International Conference,

Royal Society International Centre, Chicheley Hall  
North Buckinghamshire, UK

- 09/12      *SSMS'12*  
International School on Social Media Modelling and Search,  
Santorini, Greece
- 09/12      ***ECCS 2012 (Keynote Speaker, Opening Talk)***  
European Conference on Complex Systems,  
Université Libre de Bruxelles, Belgium
- 08/12      *22<sup>nd</sup> Jyväskylä Summer School*  
International School,  
University of Jyväskylä, Finland
- 07/12      ***Spectral Properties of Complex Networks (Keynote Speaker)***  
International Workshop,  
ECT\* Trento, Italy
- 07/12      *Lipari School on Computational Complex Systems*  
International School,  
Lipari, Italy
- 06/12      ***Frontiers in Statistical Physics and Complex Systems***  
International Conference,  
Catania, Italy
- 05/12      *107<sup>th</sup> Statistical Mechanics Conference*  
International Conference,  
Rutgers University, Piscataway,  
New Jersey, USA
- 06/11      *CCSS 2011*  
International Workshop on Crises of Socio-Economic Systems,  
ETH Zürich, Switzerland
- 06/11      *NetSci 2011*  
International Conference on Network Science,  
CEU Center for Network Science,  
Budapest, Hungary
- 05/11      *Physics of cooperation and conflict*  
International Workshop,  
University of Eindhoven, the Netherlands
- 03/11      ***Dresden 2011 (Award Talk)***  
Annual Meeting of the German Physical Society,  
Technical University of Dresden, Germany
- 02/11      *Simple models for complex systems*  
47<sup>th</sup> Winter School of Theoretical Physics  
Ladek Zdroj, Poland
- 11/10      ***STATPHYS-KOLKATA VII***  
International Conference on Statistical Physics,  
Saha Institute of Nuclear Physics, Kolkata, India

- 10/10      *Modelling Knowledge Dynamics*  
International Workshop  
Amsterdam, The Netherlands
- 09/10      *QTESO 2010*  
International Workshop on Quality in Techno-Social Systems,  
Budapest, Hungary
- 07/10      *TERA-NET*  
International Workshop on Evolutive Routing Algorithms for Scale-Free  
Internet-like Networks,  
Cité Mondiale, Bordeaux, France
- 03/10      *Regensburg 2010*  
Annual Meeting of the German Physical Society,  
University of Regensburg, Germany
- 02/10      *Physics of cooperation and conflict*  
International Workshop,  
Economics Department, University of Valencia, Spain
- 01/10      *2<sup>nd</sup> Winter School in Complexity Sciences*  
Lisbon University Institute, Portugal
- 12/09      *PageRank Matrix Days*  
International Workshop,  
Université P. Sabatier, Toulouse, France
- 10/09      *Valuetools 2009*  
International Conference,  
Grand Hotel Duomo, Pisa, Italy
- 09/09      *Summer workshop on physics of social and economic systems*  
International Workshop,  
Goldrain Castle, Goldrain, Italy
- 06/09      *Complexity and Networks-Sociology*  
International Meeting,  
Institute for Mathematical Sciences,  
Imperial College London, UK.
- 06/09      *Summer Solstice 2009,*  
International Conference,  
Faculty of Mathematics, Physics and Informatics of Gdansk University,  
Gdansk, Poland.
- 06/09      *Linguistic Networks,*  
International Workshop,  
Zentrum für interdisziplinäre Forschung (ZiF),  
Bielefeld, Germany.
- 12/08      *Complex Networks: The Past 10 Years and Future,*  
International Conference,  
Seoul National University, Seoul, South Korea.
- 09/08      *ECCS 2008*  
European Conference on Complex Systems,

Hebrew University, Jerusalem, Israel.

- 09/08 *The 4<sup>th</sup> PhD European Complexity School*  
International School,  
Hebrew University, Jerusalem, Israel.
- 07/08 *SigmaPhi 2008,*  
International Conference,  
Orthodox Academy of Crete, Kolympari, Greece.
- 07/08 *ECMI 2008,*  
International Conference,  
University College, London, UK.
- 03/08 *Detection and visualization of communities in large complex networks,*  
International Workshop,  
Université catholique de Louvain,  
Louvain-la-Neuve, Belgium.
- 02/08 *Evolution and Structure of Complex Systems and Networks:  
Basic Techniques and Applications,*  
International Conference,  
Zentrum für interdisziplinäre Forschung (ZiF),  
Bielefeld, Germany.
- 12/07 *Physical Constrained Electricity Markets as Complex Systems,*  
International School,  
Institute for Scientific Interchange (ISI), Torino, Italy.
- 11/07 *Stochastic Effects in Differential Nonlinear Models:  
From Neutrality in Evolution to Efficiency in Markets,*  
Second European PhD Complexity School,  
Institute for Scientific Interchange (ISI), Torino, Italy.
- 11/07 *Theoretical Aspects and Models of Large, Complex  
and Open Information Networks,*  
International Workshop,  
Institute for Scientific Interchange (ISI), Torino, Italy.
- 11/07 *Social Data Mining and Knowledge Building (SEWS3),*  
International Workshop,  
UCLA IPAM, Los Angeles, CA, USA
- 11/07 *Applications of Networks:  
From fundamental physics to complex networks (ANet07),*  
International Conference,  
Krakow, Poland
- 10/07 *Complex Networks in Biology and Engineering:  
From Principles to Applications (ComplexNetworks07),*  
Italian-Israeli meeting,  
Tel Aviv, Israel
- 08/07 *Informal Summer Workshop on Complex Networks and Social Dynamics,*  
Innopoli 2, Espoo, Finland

- 07/07 *Statistical Physics of Social Dynamics: Opinions, Semiotic Dynamics and Language*, International Conference, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy
- 05/07 *Noise and Stochastics in Complex Systems and Finance*, Satellite Conference within *Fluctuations and Noise 2007*, 4<sup>th</sup> Symposium on Fluctuations and Noise, La Pietra Conference Center, Florence, Italy
- 02/07 Invited Seminar for the Complex Adaptive Systems Group (CASG), Hilary Term 2007, Saïd Business School, University of Oxford, UK
- 06/06 *Alife X*, 10<sup>th</sup> International Conference on the Simulation and Synthesis of Living Systems, Topical Workshop on Environmental Construction, IU Memorial Union, Bloomington, IN, USA
- 05/01 *Percolation Phenomena*, International Conference, Zentrum für interdisziplinäre Forschung (ZiF), Bielefeld, Germany
- 03/01 *Spatial Statistics and Statistical Physics*, International Conference, Wuppertal, Germany
- 09/99 *Selected Topic in Nuclear Physics*, International School, Fiera di Primiero, Italy

## • Contributed talks

- 11/14 *Second Annual Conference of the COST Action KNOWeSCAPE* Piraeus Bank Conference Center, Thessaloniki, Greece
- 07/07 *Complex Networks: from Biology to Information Technology*, Satellite Conference of *STATPHYS23*, Sardegna Ricerche, Pula, Italy
- 05/06 *NetSci 2006*, International Conference on Network Science, IU Memorial Union, Bloomington, IN, USA
- 03/06 *APS March Meeting 2006*, topical session on “*Social Networks*”, International Conference, Baltimore Convention Center, Baltimore, MD, USA
- 02/06 *Dynamics on Complex Networks and Applications*, Thematic Institute, Max Planck Institute for Complex Systems, Dresden, Germany

- 02/06 *Interfacing Networks: from Behavioral Networks to Infostructures and Infrastructures*, EXYSTENCE Thematic Institute, ISI Foundation, Villa Gualino, Torino, Italy
- 07/05 *Complex Networks and Random Graphs: Interplay between Structure and Function*, International Workshop, Physikzentrum der Deutschen Physikalischen Gesellschaft, Bad Honnef, Germany
- 07/04 *Complexity, Metastability and Nonextensivity*, International Workshop, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy
- 06/03 *Color Glass Condensate and Parton Percolation*, International Workshop, ECT\*, Trento, Italy
- 01/02 *Quark Gluon Plasma and Heavy Ion Collisions*, International Workshop of the GISELDA Working Group, Laboratori Nazionali INFN, Frascati, Italy
- 08/01 *LATTICE 2001*, XIX International Symposium on Lattice Field Theory, Berlin, Germany
- 08/00 *LATTICE 2000*, XVIII International Symposium on Lattice Field Theory, Bangalore, India
- 06/00 *Matter under Extreme Conditions International Workshop and School*, Zentrum für interdisziplinäre Forschung (ZiF), Bielefeld, Germany
- 05/00 *Phase Transitions in Strong Interactions: Status and Perspectives*, 3rd Catania Relativistic Ion Studies (CRIS 2000), Acicastello, Italy
- 07/99 *LATTICE '99*, International Symposium on Lattice Field Theory, Pisa, Italy

## • Posters

- 07/07 *STATPHYS 2007*  
XXIII IUPAP International Conference on Statistical Physics,  
Genova, Italy
- 10/02 *SEWM 2002*  
International Workshop on Strong and Electroweak Matter,

Heidelberg, Germany

- 06/02      *LATTICE 2002*  
International Symposium on Lattice Field Theory,  
Boston, Massachusetts, USA.
- 05/99      *Quark Matter '99*  
International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions,  
Torino, Italy.

## Press Coverage

The paper *Attention decay in science* (J. Informetrics **9**, 734-745, 2015), by R. K. Pan, R. Ghosh, B. H. Huberman, K. Kaski, S. Fortunato, was featured in:

- Physics World, *Scientists 'eat faster' at bulging paper buffet* (May 2015);
- Daily Mail, <http://www.dailymail.co.uk/sciencetech/article-2993954/Science-decay-studies-new-study-finds.html> (March 13<sup>th</sup>, 2015);
- Agence Science-Presse, <http://www.sciencepresse.qc.ca/blogue/2015/03/31/nouvelle-etude-critique-plein-detudes> (March 31<sup>st</sup>, 2015).

The paper *Reputation and impact in academic careers* (PNAS **111**, 15316-15321, 2014), by A. M. Petersen, S. Fortunato, R. K. Pan, K. Kaski, O. Penner, A. Rungi, M. Riccaboni, H. E. Stanley, F. Pammolli, was featured in:

- Nature News, <http://www.nature.com/news/being-a-big-name-in-science-brings-benefits-1.16319> (November the 12<sup>th</sup>, 2014).

The paper *Growing time lag threatens Nobels* (Nature **508**, 186, 2014), by F. Becattini, A. Chatterjee, S. Fortunato, M. Mitrović, R. K. Pan and P. Della Briotta Parolo, was featured in many media sources and blogs, including:

- Le Figaro, <http://www.lefigaro.fr/sciences/2014/10/08/01008-20141008ARTFIG00295-les-laureats-des-nobel-sont-de-plus-en-plus-ages.php> (October the 8<sup>th</sup>, 2014);
- Yahoo News UK, <https://uk.news.yahoo.com/scientists-sound-alarm-over-long-wait-nobel-prize-055351618.html> (October the 5<sup>th</sup>, 2014);
- USA Today, <http://www.usatoday.com/story/tech/2014/04/09/nobel-prizes-older-accomplishments/7506955/> (April the 9<sup>th</sup>, 2014);
- National Geographic, <http://news.nationalgeographic.com/news/2014/04/140409-nobel-prize-physics-aging-scientists-string-theory-inflation/> (April the 9<sup>th</sup>, 2014);
- Der Spiegel, <http://www.spiegel.de/wissenschaft/mensch/nobelpreis-dauer-zwischen-zentraler-forschung-und-ehrung-waechst-a-963516.html> (April the 10<sup>th</sup>, 2014);
- Materia <http://esmateria.com/2014/04/10/premio-nobel-cientificos-longevos-mejores/> (April the 10<sup>th</sup>, 2014);
- Indian Express <http://indianexpress.com/article/world/world-others/nobel-prize-candidates-wait-for-over-20-years-to-win/> (April the 13<sup>th</sup>, 2014);
- SVT.se <http://www.svt.se/nyheter/vetenskap/forskare-kan-hinna-ga-ur-tiden> (April the 10<sup>th</sup>, 2014);
- Tiede <http://www.hs.fi/tiede/a1397182792576> (April the 11<sup>th</sup>, 2014);
- YLE.fi [http://yle.fi/uutiset/nobel-ehdokkaat\\_joutuvat\\_odottamaan\\_palkitsemistaan\\_pitkaan/7185871](http://yle.fi/uutiset/nobel-ehdokkaat_joutuvat_odottamaan_palkitsemistaan_pitkaan/7185871) (April the 11<sup>th</sup>, 2014);
- Phys.Org <http://phys.org/news/2014-04-professor-nobel-science-prizes-alarming.html> (April



the 10<sup>th</sup>, 2014).

The paper *On the predictability of future impact in science* (Scientific Reports **3**, 3052, 2013), by O. Penner, R. K. Pan, A. M. Petersen, K. Kaski and S. Fortunato, was featured in:

- *Nature News*, <http://www.nature.com/news/divinations-of-academic-success-may-be-flawed-1.14113> (November the 8<sup>th</sup>, 2013);
- *The Scientist*, <http://www.the-scientist.com/?articles.view/articleNo/38096/title/Impact-Forecasts-Cloudy> (October the 31<sup>st</sup>, 2013);
- *Phys.Org*, <http://phys.org/news/2013-10-scientists-future-impact.html> (October the 30<sup>th</sup>, 2013).

The paper *Universality in voting behaviour: an empirical analysis* (Scientific Reports **3**, 1049, 2013), by A. Chatterjee, M. Mitrović and S. Fortunato, was featured in:

- *MIT Technology Review* <http://www.technologyreview.com/view/508676/sociophysicists-discover-universal-pattern-of-voting-behaviour/> (December the 12<sup>th</sup>, 2012).

The paper *Physics peeks into the ballot box* (Physics Today **65**, 74, October 2012), by S. Fortunato and C. Castellano, was featured in:

- *Phys.Org*, <http://phys.org/news/2012-10-explore-elections-voting-behaviour-physics.html> (October the 25<sup>th</sup>, 2012);
- *Aalto Science Institute* [http://asci.aalto.fi/en/current/news/view/exploring\\_elections\\_and\\_voting\\_behaviour\\_with\\_physics/](http://asci.aalto.fi/en/current/news/view/exploring_elections_and_voting_behaviour_with_physics/) (October the 23<sup>rd</sup>, 2012).

The paper *World citation and collaboration networks: uncovering the role of geography in science* (Scientific Reports **3**, 3052, 2013), by R. K. Pan, K. Kaski and S. Fortunato, was featured in:

- *Wired*, <http://www.wired.com/2012/09/geography-and-the-scientific-endeavor> (September the 25<sup>th</sup>, 2012).

I am the winner of the [Young Scientist Award for Socio- and Econophysics 2011](#). The award ceremony was held at the annual meeting of the German Physical Society in Dresden, on March 14th, 2011 (photos: [1](#), [2](#), [3](#), [4](#)). Following the reception of the award, two articles on myself and my work appeared in the newspaper [Italia Oggi](#) and in the popular magazine [L'Espresso](#).

The paper *How citation boosts promote scientific paradigm shifts and Nobel Prizes* (PLoS One **6**, e18975, 2011), by A. Mazlounian, Y.-H. Eom, D. Helbing, S. Lozano and S. Fortunato, was featured in:

- *Nature News*, <http://www.nature.com/news/2011/110506/full/news.2011.270.html> (May the 6<sup>th</sup>, 2011);
- *Phys.Org*, <http://phys.org/news/2011-05-attention-nobel-prize-winners.html> (May the 4th, 2011).

The paper *Diffusion of scientific credits and the ranking of scientists* (PRE **80**, 056103, 2009), by F. Radicchi, S. Fortunato, B. Markines and A. Vespignani, was featured in:

- *Nature News*, <http://www.nature.com/news/2010/100616/full/465864a.html> (June the 16<sup>th</sup>, 2010).
- *Physics*, <http://physics.aps.org/synopsis-for/10.1103/PhysRevE.80.056103> (November the 11<sup>th</sup>, 2009).
- *Physicsworld*, [http://physicsworld.com/blog/2009/07/how\\_does\\_sara\\_rank\\_your\\_public.html](http://physicsworld.com/blog/2009/07/how_does_sara_rank_your_public.html)

(July the 13<sup>th</sup>, 2009).

The paper *Universality of citation distributions: toward an objective measure of scientific impact* (PNAS **105**, 17268-17272, 2008), by F. Radicchi, S. Fortunato and C. Castellano, was featured in:

- *Nature News*, <http://www.nature.com/news/2008/081020/full/news.2008.1169.html> (October the 20<sup>th</sup>, 2008);
- *Yahoo! Italia: Notizie*, <http://it.notizie.yahoo.com/25/20081030/thl-ricerca-valutare-meglio-valutare-tut-bd646f4.html> (October the 30<sup>th</sup>, 2008);
- *Galileo*, <http://www.galileonet.it/news/10723/ricercatori-alla-pari> (October the 27<sup>th</sup>, 2008).

The paper *Complex networks renormalization: flows and fixed points* (PRL **101**, 148701, 2008), by F. Radicchi, J. J. Ramasco, A. Barrat and S. Fortunato, was featured in:

- *Physics*, <http://physics.aps.org/synopsis-for/10.1103/PhysRevLett.101.148701> (October the 6<sup>th</sup>, 2008).

A radio interview on the international workshop *Sociophysics: status and perspectives* (organized by me at ISI in May, 2008) was aired on *Radio Rai Scienza* (May the 28<sup>th</sup>, 2008). An interview on Sociophysics has been published in *Il Manifesto* (July the 19<sup>th</sup>, 2008).

The paper *Scaling and Universality in Proportional Elections* (PRL **99**, 138701, 2007), by S. Fortunato and C. Castellano, was featured in:

- *New Scientist*, issue 2625 of October the 14<sup>th</sup>, 2007, also on-line at <http://technology.newscientist.com/article/mg19626254.400>;
- *Physicsworld*, <http://physicsworld.com/cws/article/news/31462> (October the 14<sup>th</sup>, 2007);
- *RomaOne.it*, [http://redazione.romaone.it/4Daction/Web\\_RubricaNuova?ID=91100&doc=si](http://redazione.romaone.it/4Daction/Web_RubricaNuova?ID=91100&doc=si) (October the 15<sup>th</sup>, 2007);
- *Galileo*, <http://www.galileonet.it/blog/article/277/rispondere-e-cortesia> (October the 16<sup>th</sup>, 2007);
- *Radio Capital* (October the 18<sup>th</sup>, 2007);
- *Le Scienze* (Italian edition of Scientific American) (October, 2007).

The paper *Topical interests and the mitigation of search engine bias* (PNAS **103**, 12684-12689, 2006), originally appeared as technical report with the title *The egalitarian effect of search engines* (<http://arxiv.org/abs/cs/0511005>) by S. Fortunato, A. Flammini, F. Menczer and A. Vespignani, was featured in:

- *The Economist*, issue of November the 19<sup>th</sup>, 2005, also on-line at [http://www.economist.com/science/displaystory.cfm?story\\_id=5165407](http://www.economist.com/science/displaystory.cfm?story_id=5165407);
- *Physicsweb*, <http://physicsweb.org/articles/news/9/11/7/1> (November the 10<sup>th</sup>, 2005);
- *Slashdot*, <http://slashdot.org/article.pl?sid=05/11/19/0739230> (November the 19<sup>th</sup>, 2005);
- *TRN* (Technology Research News), [http://www.trnmag.com/Roundup/2005/TRN\\_Research\\_News\\_Roundup\\_11-21-](http://www.trnmag.com/Roundup/2005/TRN_Research_News_Roundup_11-21-)

[05.html#searchenginesshare](#)

(November 21/28, 2005);

- *IDS* (Indiana Daily Student), <http://www.idsnews.com/subsite/story.php?id=32763> (November the 30<sup>th</sup>, 2005);
- *IEEE Spectrum Online*, <http://www.spectrum.ieee.org/nov05/comments/1176> (November the 22<sup>nd</sup>, 2005);
- *Radio Rai Scienza* (December the 7<sup>th</sup>, 2005);
- *Le Scienze* (Italian edition of Scientific American) (February, 2006);
- *RTSI* (Swiss Radio) Impulso Web (April the 6<sup>th</sup>, 2006);
- *New Scientist*, <http://www.newscientisttech.com/channel/tech/dn9693.html> (August the 7<sup>th</sup>, 2006);
- *United Press International* (UPI), <http://www.upi.com/NewsTrack/view.php?StoryID=20060807-011149-8794r>, (August the 7<sup>th</sup>, 2006);
- *ScienceDaily*, <http://www.sciencedaily.com/releases/2006/08/060807154811.htm>, (August the 7<sup>th</sup>, 2006);
- *Phys.org*, <http://www.physorg.com/news74179006.html> (August the 7<sup>th</sup>, 2006);
- *Personal Computer World*, <http://www.pcw.co.uk/vnunet/news/2161971/search-engines-cleared-bias> (August the 9<sup>th</sup>, 2006);
- *IEEE CISE*, <http://csdl.computer.org/dl/mags/cs/2007/04/c4007.htm> (July/August, 2007);
- over 100 blogs worldwide: <http://blogsearch.google.com/blogsearch?q=egalitarian+engines>.

The paper *Decoding the structure of the WWW: facts versus sampling biases* (<http://arxiv.org/abs/cs.NI/0511035>) by M. Ángeles Serrano, M. Boguñá, A. G. Maguitman, S. Fortunato and A. Vespignani, published with the title *Decoding the structure of the WWW: a comparative analysis of Web crawls* on ACM Transactions on the Web (Vol. 1, no. 2, paper 10, 2007), was featured in:

- *TRN* (Technology Research News), [http://www.trnmag.com/Roundup/2005/TRN\\_Research\\_News\\_Roundup\\_11-21-05.html#searchenginesshare](http://www.trnmag.com/Roundup/2005/TRN_Research_News_Roundup_11-21-05.html#searchenginesshare) (November 21/28, 2005).

The paper *Scale-free network growth by ranking* (PRL **96**, 218701, 2006), by S. Fortunato, A. Flammini and F. Menczer, was featured in:

- *ScienceDaily*, <http://www.sciencedaily.com/releases/2006/08/060807154811.htm>, (August the 7<sup>th</sup>, 2006);
- *Phys.org*, <http://www.physorg.com/news74179006.html> (August the 7<sup>th</sup>, 2006);

- *Personal Computer World*,  
<http://www.pcw.co.uk/vnUNET/news/2161971/search-engines-cleared-bias>  
(August the 9<sup>th</sup>, 2006).