

FILIPPO MENCZER

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Research interests

Social networks and social media, Web search and data mining, complex networks and systems, Internet applications, distributed information retrieval, Web intelligence, adaptive agents, machine learning, evolutionary computation, artificial life, computational economics, neural networks, cognitive science.

Academic history

Ph.D. *Computer Science & Cognitive Science*, Univ. of California, San Diego, 1998
M.S. *Computer Science*, Univ. of California, San Diego, 1994
Laurea (Doctor) *Physics*, Sapienza University of Rome, 1990

Professional history

2011-present Professor of Informatics and Computer Science, Indiana University
2011-present Director, Center for Complex Networks and Systems Research, Indiana University
2007-present Senior Research Scientist, Complex Networks Laboratory, Institute for Scientific Interchange Foundation, Torino, Italy
2006-present Member, Center for Data and Search Informatics, Indiana University
2003-present Core Faculty, Cognitive Science Program, Indiana University
2003-present Adjunct Professor of Physics, Indiana University
2003-present Research Affiliate, Biocomplexity Institute, Indiana University
2014-2015 Visiting Scientist, Yahoo Labs, Sunnyvale, California
2009-2011 Division Chair, School of Informatics and Computing, Indiana University
2009-2011 Associate Director, Center for Complex Networks and Systems Research, Indiana University
2003-2011 Associate Professor of Informatics and Computer Science, Indiana University
2002-2003 Faculty, Interdisciplinary Graduate Program in Applied Math & Computational Sciences, The University of Iowa
1998-2003 Assistant Professor, Department of Management Sciences, The University of Iowa
1994-1996 Research Assistant, Department of Computer Science & Engineering, University of California, San Diego
1992-1994 Instructor, Department of Linguistics, University of California, San Diego
1990-1991 Research Associate, Institute of Psychology, National Research Council, Rome, Italy
1989-1990 Intern, IBM Research Center, Rome, Italy

Summary of Scientific Impact and Most Significant Achievements to Date

- Citation impact metrics (source: http://scholar.google.com/citations?user=f_kGJwkAAAAJ)
 - h-index: 45
 - Papers with over 100 citations: 18
 - Citations: 7000+
- Most significant publication topics
 - Topical and adaptive web crawlers
 - Evolutionary learning with local selection
 - Social phishing
 - Semantic similarity measures for information and social networks
 - Growth models for complex information and social networks
 - Social tagging
 - Social media analytics
- Funding highlights
 - NSF Career Award
 - Over \$4M funding as PI
- Most significant product contributions
 - truthy.indiana.edu
 - scholarometer.indiana.edu
 - givealink.org
 - kinseyreporter.org
- Top media coverage
 - US: *New York Times*, *Wall Street Journal*, *NPR*, *CNN*, *MSNBC*, *USA Today*, *ABC News*, *The Economist*, *Nature*, *Science*, *LA Times*, *Washington Post*, *Wired*, *Newsweek*, *BusinessWeek*, *The Atlantic*, *US NEWS*, *Fox News*, *Forbes*, *Politico*, *Indianapolis Star*, *Chicago Tribune*, *New Scientist*, *Chronicle of Higher Education*, *CACM*, *IEEE Spectrum*, *Columbia Journalism Review*, *Christian Science Monitor*, *Discovery Magazine*, *Slate*, *Fast Company*, *Inside Higher Ed*, *MIT Technology Review*, *PC World*, *Ars Technica*, *ZDNet*, *Information Week*, *Mashable*, *Associated Press*, etc.
 - International: *BBC*, *The Guardian*, *The Independent*, *Al Jazeera*, *La Repubblica*, *La Stampa*, *Sole 24 Ore*, *El Pais*, *Süddeutsche Zeit.*, *Frankfurter Allgemeine Zeit.*, *Deutschlandradio*, *El Universal*, *CBC*, *CTV*, *ABC*, etc.
- Most significant curricular activities:
 - Developed undergraduate courses on *Search Informatics* and *Network Science*
 - Developed graduate courses on *Web Mining*, *Distributed Information Systems*, *Complex Adaptive Systems*, and *Intelligent Information Agents*

Grants and fellowships

2015-2017	Indiana University Network Science Institute (Scientific Leadership Team, \$7M)
2015	Elsevier Metrics Development Program, "Measuring scientific excellence from productivity and impact" (Co-PI, \$37,000)
2012-2015	James S. McDonnell Foundation, Studying Complex Systems Research Award "Contagion of Ideas in Online Social Networks" (PI, \$450,000)
2011-2015	NSF CCF-ICES Award "Meme diffusion through mass social media" (PI, \$905,617)
2012-2014	DARPA SMISC Award "DESPIC: Detecting Early Signatures of Persuasion in Information Cascades" (Co-PI, \$2,023,719)
2012	NSF CCF-ICES REU Supplement (PI, \$14,300)
2012	Google gift (PI, \$1,400)
2008-2012	NSF IIS-III-COR Award "Social Integration of Semantic Annotation Networks for Web Applications" (PI, \$449,995)
2010-2011	Yahoo! Faculty Research and Engagement Award (PI, \$10,000)

2010-2011	Lilly Endowment, Data to Insight Center Research Grant “An interoperable framework for real-time management and analysis of massive social media data streams” (PI, \$49,990)
2010-2011	IU CACR Internal Research Grant “Sourcing the Experts: Distributed Social Networks for Privacy-Aware Knowledge Sharing” (Co-PI, \$50,000)
2008-2009	IBM UIMA Innovation Award (PI, \$23,000)
2006-2008	NSF I/UCRC: “Data and Search Institute” planning (Senior Investigator, \$10,000)
2005-2008	NSF MRI Award “Acquisition of a high-speed, high-capacity storage system: The Data Capacitor” (Senior Investigator, \$1,720,000)
2004-2008	NSF HSD Award “The Dynamics of Rules in Commons Dilemmas” (Co-PI, \$594,516)
2002-2007	NSF CAREER Award “Scalable search engines via adaptive topic-driven crawlers” (PI, \$300,071)
2001-2002	GlaxoSmithKline Grant “Building a topical search engine for competitive intelligence in the pharmaceutical domain” (\$31,599)
2002	DIMACS Visiting Fellowship
1999	U. Iowa CIFRE Grant (\$6,660)
1999	U. Iowa College of Business Summer Research Grant (\$5,000)
1999	U. Iowa Old Gold Fellowship (\$8,111)
1999	NCS Fellowship (\$3,000)
1999	U. Iowa International Travel Grant
1998	U. Iowa Old Gold Fellowship (\$16,222)
1994-1995	Apple Advanced Technology Group Research Fellowship
1992-1993	University of Florence, Dept. of Information Science Graduate Fellowship

Awards and honors

2014	Best Paper Award at ACM Web Science Conference (WebSci14)
2014	ACM Recognition of Service Award
2013	ACM Distinguished Scientist
2013	Senior Research Fellow of The Kinsey Institute for Research in Sex, Gender, and Reproduction
2013	Winner, Waterloo Institute for Complexity and Innovation (WICI) Data Challenge (with Przemyslaw Grabowicz and Luca Aiello)
2013-2016	Fellow of the ISI Foundation, Italy
2012	Provost's Award for Undergraduate Research Mentoring (with Karissa McKelvey)
2011	CITASA (Communication and Information Technologies Section of the American Sociological Association), Student Paper Award Honorable Mention
2010	ACM Recognition of Service Award
2009	ACM SIGWEB Recognition of Service Award
2009	Nomination for Best Paper Award at 20 th ACM Hypertext Conference (HT'09)
2007-2009	Lagrange Senior Fellow, ISI Foundation, Italy
2008	Nomination for Best Paper Award at 19 th ACM Hypertext Conference (HT'08)
2006	Runner-up in SEIU's Best Idea Since Sliced Bread contest (\$50k prize)
2005	Finalist for Best Paper Award at 14 th Intl. WWW Conference (WWW2005)
2004	IU Computer Science Teaching Excellence Award
2004	IU School of Informatics Hermes Award for Service
2000	U. Iowa Instructional Improvement Award
1999	Santa Fe Institute Fellow-at-Large
1995-1996	NATO Advanced Fellow
1994	U.C. San Diego International Scholar
1991-1992	Rotary Foundation Ambassadorial Scholar
1991-1992	Fulbright Scholar

Professional service

- Review panels and ad-hoc reviews:
NSF CAREER, CISE IIS, ICES, AGEP, and ITR Programs (2012, 2010, 2008, 2003, 2002)
Netherlands Organisation for Scientific Research (2010)
Indiana 21st Century Fund (2006)
- Journal editorial positions:
EPJ Data Science (Editorial Board 2011–2016)
Network Science (Associate Editor 2012–2014, Editor 2015–)
- Conference chair:
ACM Web Science Conference (WebSci 2014 General Co-Chair and Host)
ECCS Collective Behaviors and Networks (COVENANT 2013 Co-Organizer)
Int'l World Wide Web Conference (WWW 2012 Social Networks Track Co-Chair)
Int'l ACM Conference on Hypertext and Hypermedia (Hypertext 2009 Program Chair)
Int'l ACM Conference on Hypertext and Hypermedia (Hypertext 2008 Social Linking Track Co-Chair)
Int'l Conference on Network Science, IT Session (NetSci 2006)
Int'l World Wide Web Conference, Text Analysis and Extraction Session (WWW 2005)
Informatics Research Agenda Conference, Complex Systems Session (2004)
INFORMS Annual Meeting, Web Mining Session (2001)
- Conference program committees:
Yahoo Labs TechPulse (2014)
ICCS Workshop on Computational Approaches to Social Modeling (ChASM 2012)
ACM International Conference on Web Search and Data Mining (WSDM 2009, Senior PC)
International World Wide Web Conference (WWW Social Networks & Web 2.0 Track 2009; Search Track 2005, 2004)
National Conference on Artificial Intelligence (AAAI 2007, 2006)
International Annual ACM SIGIR Conference (SIGIR 2006, 2002)
Workshop on Algorithms for the Web Graph (WAW 2006)
Intl. Conference on the Simulation & Synthesis of Living Systems (ALIFE 2006, 2000, 1998)
KDD Workshop on Link Discovery and Group Detection (LinkKDD 2005)
ACM SIGIR Workshop on Search and Discovery in Bioinformatics (2004)
Genetic and Evolutionary Computation Conference (GECCO 2002)
International Conference on Autonomous Agents (AAMAS 2001)
International Conference on Evolutionary Multi-Criterion Optimization (EMO 2001)
IEEE International Conference on Evolutionary Computation (1996)
- Guest editor: *JASIST (special issue on Mining Web Resources for Enhancing Information Retrieval, Vol. 58 No. 12, 2007); IEEE Trans. Evolutionary Computation (special issue on Swarm Intelligence and Ant Algorithms, Vol. 6 No. 4, 2002; and special issue on Agent-Based Modelling of Economic Systems, Vol. 5 No. 5, 2001)*
- Journals refereed: *Proc. Natl. Acad. Sci. USA (PNAS); Commun. ACM (CACM); PLOS ONE; Network Science; ACM Trans. Web (TWEB); Machine Learning; ACM Trans. Information Systems (TOIS); IEEE Trans. Knowledge and Data Engineering (TKDE); Journal of the American Society for Information Science and Technology (JASIST); Information Processing Letters (IPL); Evolutionary Computation (EC); IEEE Trans. Evolutionary Computation (TEC); European Physical Journal B; Artificial Life; International Journal on Artificial Intelligence Tools; International Journal on Cooperative Information Systems; Cognitive Systems Research; IEEE Trans. Neural Networks (TNN); IEEE Trans. Systems, Man, and Cybernetics (TSMC); Network: Computation in Neural Systems; South African Journal of Science; BioSystems; Concurrency and Computation: Practice and Experience; Journal of Network and Computer Applications; Physica A; Networks and Heterogeneous Media*
- Books refereed: *Adaptive Web (Springer, 2006); Handbook of Computational Economics, Volume II: Agent-Based Computational Economics (North-Holland 2006); Soft Computing in Information*

Retrieval: Techniques and Applications (Springer 2000); Intelligent Information Agents (Springer 1999); Adaptive Individuals in Evolving Populations: Models and Algorithms (Santa Fe Institute Studies in the Sciences of Complexity, Volume 26, 1996)

- Other conferences refereed: *CCS; Artificial Life; Foundations of Genetic Algorithms; IJCAI; AAAI*
- Advisory boards:
Lifeboat Foundation Scientific Advisory Board, 2011-present
CENIT Social Media consortium (Spanish Ministry of Industry & Yahoo! Research), 2010-2012
- Other professional service: *Jury, 2013 Erdos-Renyi Network Science Prize*

Academic service (Indiana University)

University	Scientific Leadership Team, IU Network Science Institute (IUNI, 2014-present) School of Informatics and Computing Dean Review Committee (2012-2013) IUCRG Review Panel (2013)
School	Interim Director, Ctr. for Complex Networks & Systems Research (2011-present) Data Science Program Steering Committee (2012–2014) Promotion & Tenure Committee (2012–2013) Web Steering Committee (2010-2012) Hiring Committee (2010-2011) Assoc. Director, Ctr. for Complex Networks & Systems Research (2009-2011) Search Committee for Director of Development (2010) Hiring Committee Co-Chair (2009-2010) School Website Redesign Task Force (2009-2010) – <i>soic.indiana.edu winner of 2 Webby Awards</i> Structure Task Force (2008-2009) Colloquia Chair (2004-2006) Policy Committee (2005-2007) Structure Committee (2005-2006) PhD in Scientific Computation (2004-2005) Hiring Coordinator (2003-2004; <i>22 faculty hired</i>)
Department/Division	Promotion & Tenure Committee (2013–2014) Structure Task Force (2011-2012) Hiring Committee for Complex Networks & Systems (2010-2011) Chair, Division A (2009-2011) Informatics Hiring Committee, Complex Systems Coordinator (2008-2009) Informatics Graduate Admissions Committee (2006-2007) Informatics Graduate Programs Committee (2003-2004) Computer Science Undergraduate Education Committee (2003-2005) Computer Science Research Environment Committee (2003-2006) Cognitive Science UG Curriculum Committee (2003-2004)

Academic service (University of Iowa)

College/University	Computing and Learning Technologies Committee (2002-2003) Virtual Classroom Committee (2003) Library and Publications Committee (2001-2002) Advanced Learning Advisory Board (1999-2001)
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Department PhD/MBA/Undergraduate MIS Curriculum Committee (2002-2003)
 Recruiting Committee (2000-2001)
 PhD Admissions Committee (1998-2003)
 MA/MIS Admissions Committee (1998-2003)
 MA/MIS Program Advisor (1998-2003)
 MA/MIS Program Committee (1998-2000)
 Undergraduate MIS Curriculum Committee (1998-1999)

Teaching

Graduate courses (IU) CSCI B656 Web Mining (S2004^{ne}, S2005, S2006, S2007, S2009, S2012)
 INFO I500 Fundamentals of Informatics (F2003^{nc})

U.G. courses (IU) INFO 400 Network Science (F2010ⁿ, F2011, F2012, F2013)
 INFO 427 Search Informatics (F2004ⁿ, F2005, F2006, S2009)
 INFO I211 Information Infrastructure II (F2006ⁿ, S2007)

Grad. courses (Ulowa) Adaptive Systems (S2003^{ne})
 Data and Decisions (F2002)
 Intelligent Information Agents (F2001^{ne})
 Intro to Information Systems (F2000, S2001^e, F2001, S2003^e)
 Electronic Commerce (F2000ⁿ)
 Distributed Information Systems (S2000ⁿ, F2000)
 Human-Computer Interaction (S2000^{ne}, S2003^e)
 Intelligent Systems (F1999 co-taught with Nick Street)
 Computer Networks (S1999, S2000, S2001)
 Networking Lab (S1999^{ne}, S2000^e)
 Graphical User Interfaces (S1999ⁿ)
 Database Systems (S1999)

U.G. courses (Ulowa) Applications of Database Management Systems (F1998, F1999)

Grad. seminars (Ulowa) Complex Adaptive Systems & their Business Appl. (F1999^{ne})

Notes (e) Teaching excellence (F) Fall Semester
 (n) Newly developed (S) Spring Semester
 (c) Student Choice Award nomination

Advising and research supervision (Indiana University)

Postdoctoral fellows Diego Fregolente (2013–)
 Giovanni Luca Ciampaglia (2013–)
 Emilio Ferrara (2012–)
 Ruby Wang (2012)

Visiting scholars Bojin Zheng, South-Central University for Nationalities (2014)
 Xiaoyan Qiu, Shanghai University (2013-2015)
 Giorgio Elia, University of Torino (2012)
 Giancarlo Ruffo, University of Torino (2010-2011, 2012, 2013)
 Martina Deplano, University of Torino (2012, 2013)
 Xiaoling Sun, Dalian University of Technology, China (CSC, 2010-2012)
 Laszlo Pokoradi, University of Debrecen, Hungary (2012)

- Rossano Schifanella, University of Torino (2009-2010, 2011-2012)
Lino Possamai, University of Padua (2011)
Przemek Grabowicz, Univ. Balearic Islands (2011)
Luca Aiello, University of Torino (2010-2011)
- Ph.D. chaired
- Tei Heli Laine (“Agent-Based Model Selection Framework for Complex Adaptive Systems.” CS & CosSci, 2003-2006; currently at Institute of High Performance Computing, Singapore)
Ben Markines (“Socially Induced Semantic Networks and Applications.” CS, 2006-2009; currently chief scientist at Syfto.com)
Le-Shin Wu (“Adaptive Peer Networks for Distributed Web Search.” CS, 2004-2009)
Ruj Akavipat (“Distrust Reputation System for P2P Information Sharing.” CS, 2004-2009; currently at Computer Engineering Department, Mahidol University, Thailand)
Mark Meiss (“Structural Mining of Large-Scale Behavioral Data from the Internet.” CS, 2004-2010; currently at Google)
Jacob Ratkiewicz (“The Expression of Human Behavior in Online Networks.” CS, 2005-2011; currently at Google)
Michael Conover (“Digital Democracy: The Structure and Dynamics of Political Communication in a Large-Scale Social Media Stream.” Informatics, 2007-2012; currently at LinkedIn)
Lilian Weng (“Information Diffusion on Online Social Networks.” Informatics, 2009-2014; currently at Dropbox)
Jasleen Kaur (“Emergence of Innovation and Impact in Science.” Informatics, 2011-2015; currently at Philips Research)
Dimitar Nikolov (CS, 2011-present)
- Ph.D. Res. committees
- Ana G. Maguitman (CS, 2003-2004; currently at Univ. Nacional del Sur, Argentina)
Wei Zeng (Physics, 2003-2004)
Thomas Reichherzer (CS, 2003-2009; currently at Univ. West Florida)
Kazuhiro Seki (SLIS, 2005-2006; currently at Kobe University)
Ying Liu (CS, 2005-2007)
Sid Stamm (CS, 2005-2009; currently at Mozilla Corp.)
Tiago Simas (CogSci, 2005-2012)
Tharaka Devadithya (CS, 2006-2008)
Alejandro Valerio (CS, 2006-2014; currently at Google)
Jeremy Engle (CS, 2007-2012)
John Duncan (CS, 2008-2010)
Alaa Abi-Haidar (Informatics, 2009-2011; currently at CNRS, France)
Nathaniel Husted (Informatics, 2013-present)
Xiaoming Gao (CS, 2013-present)
- Ph.D. Qual. committees
- Winter Mason (CogSci, 2004-2005; currently at Stevens Inst. of Technology)
Michael Roberts (CogSci, 2004-2005)
Justin Donaldson (Informatics, 2007-2010)
Jared Lorince (CogSci, 2012-present)
Azadeh Nematzadeh (Informatics, 2012-present)
Prashant Shiralkar (CS, 2014-present)
Clayton Davis (Informatics, 2014-present)
- M.S. capstone
- Mohsen JafaiAsbagh (CS, 2012-2015; currently at Yelp)
Diep Hoang (CS, 2009-2010; currently at Vietnam National University)
Divya Rao (Bioinformatics, 2004-2006; currently at Sequenom)

	Gayathri Athreya (Bioinformatics, 2004-2006; currently at LANL) Lubomira Stoilova (CS, 2004-2005; currently at Google)
U.G. research & interns	Virgil Griffith (CogSci, 2004-2007; currently at Caltech) Katrina Panovich (Informatics, 2007-2008; Honorable Mention, 2008 CRA Outstanding Undergraduate Award; currently at MIT Media Lab) Karissa McKelvey (CS, 2011-2012) Kehontas Rowe (Mills College, CA; 2013) Bryce Lewis (Bryn Mawr College, PA; 2013)

Advising and research supervision (University of Iowa)

Ph.D. chaired	Gautam Pant (“Learning To Crawl: Classifier-Guided Topical Crawlers.” Management Sciences, 2000-2004; currently at U. Utah) Melania Degeratu (AMCS, 1998-2000; currently at IBM)
Ph.D. committees	Miguel Ruiz (CS/LIS, 1999-2001; currently at Univ. North Texas) YongSeog Kim (Management Sciences, 2000-2001, currently at Utah State) Troy Tassier (Economics, 2000-2002, currently at Fordham) Manika Govil (Management Sciences, 2001-2003) Elena Catona (Management Sciences, 2001-2003) Yi Zhang (Management Sciences, 2002-2003) Zijian Ren (ECE, 2001-2003)
Ph.D. external referee	Massimiliano Ugolini (CogSci, Univ. Siena, 2002-2004)
M.S./M.A. research	Narayan Vishwakarma (MIS, 2000-2002) Tamara Griesel (Biology, 1999-2002) Brian Almquist (MIS, 2000-2001) Harish Batlapenumarthy (Industrial Engineering, 2000; currently at Oracle) Eric Bergman (MIS, 1999)
U.G. research	Michael Alexander (MIS, 2000) Mason Lee (MIS, 2000-2001)

Publications

A. Journals

- [A.52] P. Grabowicz, L.M. Aiello, F. **Menczer**: Fast filtering and animation of large dynamic networks. *EPJ Data Science* 3(1):27, [doi:10.1140/epjds/s13688-014-0027-8](https://doi.org/10.1140/epjds/s13688-014-0027-8), 2014
- [A.51] M. JafariAsbagh, E. Ferrara, O. Varol, F. **Menczer**, A. Flammini: Clustering memes in social media streams. *Social Network Analysis and Mining* 4(1):237, [doi:10.1007/s13278-014-0237-x](https://doi.org/10.1007/s13278-014-0237-x), 2014
- [A.50] J. Kaur, F. Radicchi, F. **Menczer**: Universality of scholarly impact metrics. *Journal of Informetrics* 7(4):924–932, [doi:10.1016/j.joi.2013.09.002](https://doi.org/10.1016/j.joi.2013.09.002), 2013
- [A.49] L. Weng, F. **Menczer**, Y. Ahn: Virality Prediction and Community Structure in Social Networks. *Nature Sci. Rep.* 3(2522), [10.1038/srep02522](https://doi.org/10.1038/srep02522), 2013
- [A.48] M. Conover, E. Ferrara, F. **Menczer**, A. Flammini: The digital evolution of Occupy Wall Street. *PLoS ONE*, 8(5):e64679, [doi:10.1371/journal.pone.0064679](https://doi.org/10.1371/journal.pone.0064679), 2013

- [A.47] M. Conover, C. Davis, E. Ferrara, K. McKelvey, F. **Menczer**, A. Flammini: The geospatial characteristics of social movement communication networks. *PLoS ONE*, 8(3):e55957, [doi:10.1371/journal.pone.0055957](https://doi.org/10.1371/journal.pone.0055957), 2013
- [A.46] X. Sun, J. Kaur, L. Possamai, F. **Menczer**: Ambiguous author query detection using crowdsourced digital library annotations. *Information Processing and Management*, 49(2): 454–464, [doi:10.1016/j.ipm.2012.09.001](https://doi.org/10.1016/j.ipm.2012.09.001), 2013
- [A.45] X. Sun, J. Kaur, S. Milojevic, A. Flammini, F. **Menczer**: Social dynamics of science. *Nature Sci. Rep.*, 3(1069), [doi:10.1038/srep01069](https://doi.org/10.1038/srep01069), 2013
- [A.44] J. Kaur, D. T. Hoang, X. Sun, L. Possamai, M. JafariAsbagh, S. Patil, F. **Menczer**: Scholarometer: A Social Framework for Analyzing Impact across Disciplines. *PLoS ONE*, 7(9):e43235, [doi:10.1371/journal.pone.0043235](https://doi.org/10.1371/journal.pone.0043235), 2012
- [A.43] M. Conover, B. Goncalves, A. Flammini, F. **Menczer**: Partisan Asymmetries in Online Political Activity. *EPJ Data Science* 1:6, [doi:10.1140/epjds6](https://doi.org/10.1140/epjds6), 2012
- [A.42] L. Weng, A. Flammini, A. Vespignani, F. **Menczer**: Competition among memes in a world with limited attention. *Nature Sci. Rep.* 2(335), [doi:10.1038/srep00335](https://doi.org/10.1038/srep00335), 2012
- [A.41] L. Aiello, A. Barrat, R. Schifanella, C. Cattuto, B. Markines, F. **Menczer**: Friendship prediction and homophily in social media. *ACM Trans. WEB* 6(2):9, [doi:10.1145/2180861.2180866](https://doi.org/10.1145/2180861.2180866), 2012
- [A.40] M. Mandel, R. Pascanu, D. Eck, Y. Bengio, L. Aiello, R. Schifanella, F. **Menczer**: Contextual tag inference. *ACM Trans. Multimedia Computing, Communications, and Applications* 7S(1): 32, [doi:10.1145/2037676.2037689](https://doi.org/10.1145/2037676.2037689), 2011
- [A.39] R. Cecchini, C. Lorenzetti, A. Maguitman, F. **Menczer**: A semantic framework for evaluating topical search methods. *CLEI electronic journal* 14(1): 2, www.clei.cl/cleiej/paper.php?id=211, 2011
- [A.38] M. Meiss, F. **Menczer**, A. Vespignani: Properties and evolution of Internet traffic networks from anonymized flow data. *ACM Trans. on Internet Technology* 10(4): 15, [doi:10.1145/1944339.1944342](https://doi.org/10.1145/1944339.1944342), 2011
- [A.37] J. Ratkiewicz, S. Fortunato, A. Flammini, F. **Menczer**, A. Vespignani: Characterizing and modeling the dynamics of online popularity. *Phys. Rev. Lett.* 105(15): 158701, [doi:10.1103/PhysRevLett.105.158701](https://doi.org/10.1103/PhysRevLett.105.158701), 2010
- [A.36] M.A. Serrano, A. Flammini, F. **Menczer**: Modeling Statistical Properties of Written Text. *PLoS ONE* 4(4), e5372, [doi:10.1371/journal.pone.0005372](https://doi.org/10.1371/journal.pone.0005372), 2009
- [A.35] F. **Menczer**, L.-S. Wu, R. Akavipat: Intelligent peer networks for collaborative Web search. *AI Magazine* 29(3): 35, www.aaai.org/Library/Magazine/Vol29/aimag29-03-005.php, Fall 2008
- [A.34] M. A. Janssen, R. Goldstone, F. **Menczer**, E. Ostrom: Effect of Rule Choice in Dynamic Interactive Spatial Commons. *International Journal of the Commons* 2(2): 288-312, [URN:NBN:NL:UI:10-ijc/08014](https://nbn-resolving.org/urn:nbn:nl:ui:10-ijc/08014), 2008
- [A.33] M. Meiss, F. **Menczer**: Visual comparison of search results: A censorship case study. *First Monday* 13(7), www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/2019, 7 July 2008

- [A.32] M. Meiss, F. **Menczer**, A. Vespignani: Structural analysis of behavioral networks from the Internet. *J. Phys. A: Math. Theor.* 41: 224022, [doi:10.1088/1751-8113/41/22/224022](https://doi.org/10.1088/1751-8113/41/22/224022), 2008
- [A.31] T. Tassier, F. **Menczer**: Social Network Structure, Equality and Segregation in a Labor Market with Referral Hiring. *Journal of Economic Behavior and Organization* 66 (3-4): 514-528, [doi:10.1016/j.jebo.2006.07.003](https://doi.org/10.1016/j.jebo.2006.07.003), 2008
- [A.30] S. Fortunato, M. Boguna, A. Flammini, F. **Menczer**: On local estimations of PageRank: A mean field approach. *Internet Mathematics* 4(2-3): 245-266, akpeters.metapress.com/content/n511734184g3303m, 2007
- [A.29] T. Jagatic, N. Johnson, M. Jakobsson, F. **Menczer**: Social Phishing. *Commun. ACM* 50 (10): 94-100, [doi:10.1145/1290958.1290968](https://doi.org/10.1145/1290958.1290968), Oct 2007
- [A.28] S. Fortunato, A. Flammini, F. **Menczer**, A. Vespignani: Topical interests and the mitigation of search engine bias. *Proc. Natl. Acad. Sci. USA* 103(34): 12684-12689, [doi:10.1073/pnas.0605525103](https://doi.org/10.1073/pnas.0605525103), 2006
- [A.27] S. Fortunato, A. Flammini, F. **Menczer**: Scale-free network growth by ranking. *Phys. Rev. Lett.* 96(21): 218701, link.aps.org/abstract/PRL/v96/e218701, 2006
- [A.26] A.G. Maguitman, F. **Menczer**, F. Erdinc, H. Roinestad, A. Vespignani: Algorithmic Computation and Approximation of Semantic Similarity. *World Wide Web Journal* 9 (4): 431-456, [doi:10.1007/s11280-006-8562-2](https://doi.org/10.1007/s11280-006-8562-2), 2006
- [A.25] Y.S. Kim, N. Street, F. **Menczer**: Optimal Ensemble Construction via Meta-Evolutionary Ensembles. *Expert Systems With Applications* 30(4): 705-714, 2006
- [A.24] F. **Menczer**: Mapping the semantics of Web text and links. *IEEE Internet Computing* 9(3): 27-36, May/June 2005
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C. Books, book chapters and contributions

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- [C.1] F. **Menczer**, W.E. Hart, M.L. Littman: Appendix to "The Effect of Memory Length on Individual Fitness in a Lizard." *Adaptive Individuals in Evolving Populations: Models and Algorithms*, edited by R.K. Belew and M. Mitchell, Santa Fe Institute Studies in the Sciences of Complexity, Vol. XXVI, Addison Wesley, pp. 183-186, 1996

D. Theses

- [D.2] F. **Menczer**: Life-like Agents: Internalizing Local Cues for Reinforcement Learning and Evolution. Ph.D. Dissertation, Department of Computer Science and Engineering, University of California, San Diego, 1998
- [D.1] F. **Menczer**: Studio Numerico Comparato di Algoritmi Genetici di Ottimizzazione nell'Apprendimento di Reti Neurali (in Italian). Tesi di Laurea, Department of Physics, University of Rome I "La Sapienza", 1991

E. Other papers, publications, posters, and presentations

- [E.34] G.L. Campaglia, A. Flammini, F. **Menczer**: How consumption drives production of new knowledge in the attention economy. Presented at European Conf. on Complex Systems (ECCS), 2014
- [E.33] J. Kaur, F. Radicchi, F. **Menczer**: On the use of sampling statistics to advance bibliometrics. *Journal of Informetrics* 8 (2): 419-420, [doi:10.1016/j.joi.2014.01.010](https://doi.org/10.1016/j.joi.2014.01.010), 2014
- [E.32] L. Weng, F. **Menczer**, Y. Ahn: Leveraging Community Structure to Predict Successful Memes. Presented at International School and Conference on Network Science (NetSci), 2014
- [E.31] J. Kaur, F. Radicchi, F. **Menczer**: Universality of scholarly impact metrics. Presented at ECCS Satellite Workshop on Quantifying Success, 2013
- [E.30] E. Ferrara, F. **Menczer**: The digital evolution of Occupy Wall Street. Presented at the 6th Annual Meeting of the Political Networks Section of the American Political Science Assoc. (PoINet), 2013
- [E.29] K. McKelvey, C. Davis, F. **Menczer**, A. Flammini: The geospatial characteristics of social movement communication networks. Presented at the 6th Annual Meeting of the Political Networks Section of the American Political Science Assoc. (PoINet), 2013
- [E.28] F. **Menczer**: The diffusion of political memes in social media: keynote abstract. Proc. 1st CIKM workshop on Politics, Elections and Data (PLEAD), pp. 1-2, [doi:10.1145/2389661.2389663](https://doi.org/10.1145/2389661.2389663), 2012
- [E.27] L. Weng, F. **Menczer**: Context visualization for social bookmark management. Technical report, arXiv:1211.6799 [cs.HC], CoRR, 2012
- [E.26] M. Conover, J. Ratkiewicz, B. Gonçalves, M. Francisco, A. Flammini, F. **Menczer**: Social Media and the Networked Public Sphere. Extended abstract presented at Workshop on Information in Networks (WIN), 2011
- [E.25] X. Sun, J. Kaur, L. Possamai, F. **Menczer**: Detecting Ambiguous Author Names in Crowdsourced Scholarly Data. Poster presented at 3rd IEEE Conference on Social Computing (SocialCom), 2011
- [E.24] L. Weng, R. Schifanella, F. **Menczer**: The Chain Model for Social Tagging Game Design. Poster presented at 6th ACM International Conference on Foundation of Digital Games (FDG), 2011
- [E.23] B. Gonçalves, M. Conover, A. Flammini, F. **Menczer**: Networks of Political Communication II: Partisan Engagement and Social Media. Presented at The International School and Conference on Network Science (NetSci), 2011
- [E.22] M. Conover, J. Ratkiewicz, B. Gonçalves, M. Francisco, A. Flammini, F. **Menczer**: Networks of Political Communication I: Multi-Mode Interactions in an Online Social Network. Presented at The International School and Conference on Network Science (NetSci), 2011
- [E.21] M. Conover, J. Ratkiewicz, B. Gonçalves, A. Flammini, F. **Menczer**: Visualizing the Political Discourse on Twitter. Poster presented at Journal of Information Technology and Politics (JITP) Conference on The Future of Computational Social Science, 2011
- [E.20] D. Hoang, J. Kaur, F. **Menczer**: Building Interdisciplinary Collaboration Networks from a Social Citation Analysis Tool. Presented at Sunbelt XXX Social Networks Conference, 2010

- [E.19] J. Ratkiewicz, A. Flammini, F. **Menczer**: Traffic through the Wikipedia Knowledge Network. Presented at Sunbelt XXX Social Networks Conference, 2010
- [E.18] R. Schifanella, A. Barrat, C. Cattuto, B. Markines, F. **Menczer**: Folks in Folksonomies: Social Link Prediction from Shared Metadata. Poster at Sunbelt XXX Social Networks Conference, 2010
- [E.17] F. **Menczer**: Abolish Conference Proceedings. Letter to the Editor. *Commun. ACM* 52 (11): 6, [doi: 10.1145/1592761.1592764](https://doi.org/10.1145/1592761.1592764), Nov 2009
- [E.16] H. Roinestad, J. Burgoon, B. Markines, F. **Menczer**: Incentives for Social Annotations. Demo. Proc. 32nd Annual ACM SIGIR Intl. Conf. on Research and Development in Information Retrieval, p. 838, 2009
- [E.15] C. Cattuto, F. **Menczer**, G. Ruffo: Torino (Italy) to host the 20th ACM Hypertext and Hypermedia Conference in June 2009. *SIGWEB Newsletter*, Autumn 2008
- [E.14] W. Lam, C. Yang, F. **Menczer**: Introduction to the special topic section on mining Web resources for enhancing information retrieval. *Journal of the American Society for Information Science and Technology* 58 (12): 1791-1792, 2007
- [E.13] L.-S. Wu, R. Akavipat, F. **Menczer**: 6S: P2P Web index collecting and sharing application. Application presented at RIAO 2007
- [E.12] S. Fortunato, A. Flammini, F. **Menczer**, A. Vespignani: Building Website Popularity. Proc. ALifeX Workshop on Modeling Environment Construction, p. 167, 2006
- [E.11] B. Markines, L. Stoilova, F. **Menczer**: GiveALink: A Social Recommendation System. Poster, International Conference on Network Science (NetSci), 2006
- [E.10] F. **Menczer**, S. Fortunato, A. Flammini, A. Vespignani: Googlearchy or Googlocracy? *IEEE Spectrum*, Feb 2006
- [E.9] M. Jakobsson, F. **Menczer**: Untraceable Email Cluster Bombs: On Agent-Based Distributed Denial of Service. *USENIX ;login*: 28(6): 25-28, Dec 2003
- [E.8] P. Srinivasan, F. **Menczer**, G. Pant: Defining Evaluation Methodologies for Topical Crawlers. Position paper, SIGIR Workshop on Defining Evaluation Methodologies for Terabyte-Scale Collections, 2003
- [E.7] F. **Menczer**: Navigating the small world Web by textual cues. Technical Report CoRR IR/0204054 (<http://arxiv.org/abs/cs.IR/0204054>), 2002
- [E.6] F. **Menczer**: Changing Latent Energy Environments: A Case for the Evolution of Plasticity. Technical Report CS94-336 University of California, San Diego, January 1994
- [E.5] F. **Menczer**, R.K. Belew: Latent Energy Environments: A Tool for Artificial Life Simulations. Technical Report CS93-301 University of California, San Diego, July 1993
- [E.4] F. **Menczer**, R.K. Belew: Latent Energy Environments: A Model for Artificial Life Complexity. Technical Report CS93-298 University of California, San Diego, July 1993
- [E.3] F. **Menczer**, R.K. Belew: Defining Artificial Life Complexity for Evolving Neural Networks. *Proc. Institute for Neural Computation Annual Symposium*, University of California, San Diego, 1993

- [E.2] F. **Menczer**: Vita Artificiale (in Italian). *Sapere* , Dedalo, Rome, pp. 41-51, December 1991
- [E.1] F. **Menczer**, D. Parisi: Sexual vs. Agamic Reproduction in Neural Networks. Technical Report PCIA 90-1 Institute of Psychology CNR, Rome, 1990

Software, datasets, and online resources

- Click dataset, a large collection of about 53.5 billion anonymous Web (HTTP) requests. cnets.indiana.edu/groups/nan/webtraffic/click-dataset
- Fastviz: open source tools for fast animation of large dynamic networks. Winner of WICI Challenge (wici.ca/new/resources/wici-data-challenge-2). github.com/WICI/fastviz
- Web Science 2014 data challenge: four datasets comprising 200 million Web clicks, 22 million tweet records, 430 thousand bookmarks, and 22 million paper records. cnets.indiana.edu/groups/nan/webtraffic/websci14-data
- Kinsey Reporter: global mobile survey platform to collect, explore, visualize, and share anonymous data about sex. kinseyreporter.org
- Truthy: public site and Klatsch open source framework to track, analyze, mine, classify, model, and visualize how information spreads through social media. truthy.indiana.edu and github.com/truthy/klatsch
- GiveALink: public site where people can donate their bookmarks to the Web community. Social annotations are incentivized through games and analyzed through collaborative Web mining techniques to search, recommend, surf, personalize and visualize the Web. givealink.org
- Scholarometer: a social browser extension tool to facilitate citation analysis and help evaluate the impact of an author's publications. scholarometer.indiana.edu
- Sixearch: public site and peer network for a social, distributed, collaborative Web search project based on adaptive agents and intelligent query routing. Open source 6S application software available for download along with applet visualizing live query network. sixearch.org
- Center for Complex Networks and Systems Research Website. cnets.indiana.edu
- Similarity Cloud: Web tool developed in collaboration with Mark Meiss and Alessandro Flammini to visualize the shared topicality between any two topics, based on Wikipedia content and a model of text generation proposed by the authors. carl.cs.indiana.edu/similaritycloud/
- cenSEARCHip: a tool to visualize the differences in the results returned by different countries' versions of the major search engines. Covered in various news outlets around the world. carl.cs.indiana.edu/censearchip/
- Gossip Engine: demo showing how fraudsters can automatically generate fake content that looks real to search engines and lures people into clicking on ads. This kind of fraud pollutes the Web. carl.cs.indiana.edu/fil/cgi-bin/gossip/
- Phroogle: demo illustrating the exploitation of comparison shopping engines to bait victims into disclosing credit card or bank account information. Featured in *Phishing and Countermeasures* (Wiley, 2007). carl.cs.indiana.edu/fil/phroogle/
- Email Cluster Bomb: public site to disseminate information about e-mail cluster bomb attacks. Demos illustrate attack, site vulnerability, and a preventive solution. carl.cs.indiana.edu/fil/ecb/
- Recruit: open-source (GNU) Web based system supporting electronic submissions and group-based collaboration for administration of academic job applications. Perl. Listed in GNU Education, OFSET Freeduc, Perl Archive, CGI Resource Index, etc. informatics.indiana.edu/fil/Recruit/

- OAMulator: Web based educational resource supporting the teaching of instruction set architecture, registers, addressing, assembly, programming, and compilers. Perl. Official Resource of the Computer Science Teaching Center (www.CSTC.org). informatics.indiana.edu/fil/OAM/
- MySpiders: public Java applet for personalized, query-driven, client-based Web crawling by adaptive online agents. Selected as semi-finalist for Technological Innovation Awards by Discover Magazine. Reviewed in AI Topics, AgentWeb, BotSpot, and SearchEngineWatch. myspiders.informatics.indiana.edu
- JavaCrawlers: Java library for topical Web crawlers developed in collaboration with Gautam Pant and Padmini Srinivasan. informatics.indiana.edu/fil/IS/JavaCrawlers/
- WebGraph++: open source C++ implementation of Boldi & Vigna's Webgraph library, developed in collaboration with Jacob Ratkiewicz. Bypasses virtual machine limitations of the original Java version while preserving ease of use through integration with the Boost Graph Library. cnets.indiana.edu/groups/nan/webgraph
- PageRank Demo: Web based educational resource to illustrate the concept of PageRank used by search engines to estimate Web page, and how PageRank is combined with text similarity importance when ranking search hits. carl.cs.indiana.edu/fil/cgi-bin/pagerank/
- LEE (Latent Energy Environments): open-source C freeware package for development and simulation of artificial life models. MacOS (GUI) and UNIX. Part of Linux release. Selected as Key Resource in Artificial Life by Links2Go and Yahoo. informatics.indiana.edu/fil/LEE/
- The University of Iowa Plagiarism Detection Tool: free Web based agent supporting the detection of material plagiarized from Internet sources. University of Iowa official teaching resource based on intelligent agent class project by students Vijay Gade and Gautam Pant. (Replaced by turnitin.com in 2003)

Selected media coverage

- A controversial misinformation campaign about the Truthy project was covered in *Science*, *Columbia Journalism Review*, *The Independent*, *The Washington Post*, *The Hill*, *Indianapolis Star*, *Politico*, *The Los Angeles Times*, *Houston Chronicle*, *Motherboard*, *Daily Dot*, *ComputerWorld*, *IDS News*, *Information Week*, *American Variety Radio*, *Comm. ACM*, and other venues (Sep–Nov 2014)
- Stories about our work on detection and implications of social bots appeared in *PC World*, *BBC*, *ABC News*, *The Washington Post*, *Politico*, *New Scientist*, *ComputerWorld*, *Mashable*, *Technology Review*, *Motherboard*, *Pittsburgh Tribune-Review*, *Ecumenical News*, *IDS News*, *Social Times*, *Tech Times*, *Irish Times*, *Wired*, *RAI News* (Italy), and many other venues around the world (May–Aug 2014)
- *Al Jazeera*, *Newsweek*, and *The Guardian* covered our analyses of the use of social media in social unrest and other political communication (Feb–Jul 2014)
- “The Network-Based Interpretation of Dreams” in *Medium* (Feb 2014)
- The Kinsey Reporter project and its new surveys were covered in *The Los Angeles Times*, *The Independent*, *Mother Jones*, *Discovery Magazine*, *Playboy*, *UPI*, *Herald-Times*, *IDS News*, and other local news outlets (Jan–Dec 2014)
- “Twitter Trends Help Researchers Forecast Viral Memes” in *Scientific American* (Dec 2013)
- *Nature* picked up our results on universal scholarly impact metrics. Follow-up stories appeared in *Science*, *The Guardian*, *Scientific American*, *Real Clear Science*, *Smithsonian Magazine*, *Die Press* (Austria), *Kompas* (Indonesia), *Imerisia* (Greece), *Tekniikka & Talous* (Finland), *Typos* (Cyprus), etc. (Nov 2013–Sep 2014)

- Our work on social bots and their detection, as well as earlier work on social media and politics, was covered in *The New York Times* and *Financial Times*. The CBS hit show *The Good Wife* ran an episode inspired by this work, on which I consulted with the writers (Aug-Nov 2013)
- Several stories reported our findings on Twitter trendsetting cities, in *The Washington Post*, *MIT Technology Review*, *Seattle Times*, *GeekWire*, and other venues (Oct 2013)
- The re-release of the Kinsey Reporter app was mentioned in the *Indianapolis Star*, *Houston Chronicle*, *FOX59*, *WISH-TV*, *RTV6*, *Post-Tribute*, *The Republic*, *San Francisco Gate*, *El Confidencial* (Mexico), and several other sources. *La Repubblica* (Italy) covered my TED-like talk on citizen science mobile apps at *La Repubblica delle Idee* (May-Jun 2013)
- Interviews on risks and opportunities of social media ran in *Operational risk and regulation and IdentityTheft911* (Feb-Sep 2013)
- The Kinsey Reporter mobile apps and platform launch was covered by *USA Today*, *LA Times*, *Forbes*, *Slate*, *Yahoo! News*, *San Francisco Gate*, *Indianapolis Star*, *Futurity*, *The Republic*, *Inside Higher Ed*, *The Atlantic Wire*, *ZDNet*, *Mashable*, *Associated Press*, *Houston Chronicle*, *Chicago Post-Tribune*, *Phoenix NewTimes*, *Wisconsin Gazette*, *Herald-Times*, *Courier-Post*, *Journal Gazette*, *Courier-Journal*, *Kentucky Post*, *Alaska Dispatch*, *Tribune Star*, *Times-Mail*, *FOX19*, *WISHTV8*, *FOX59*, *WLS-TV7*, *RTV6*, *WCPO9*, *KWCH12*, *PhysOrg*, *Global Post*, *IDS*, *La Repubblica*, *La Stampa* (Italy), *Coger* (Mexico), *Vijesti*, *Monitor* (Croatia), and many other online news channels and blogs. An interview aired on Southern California NPR affiliate NPCC (Aug-Sep 2012)
- More coverage of the Truthy project after AAAS and in the run-up to the 2012 elections by *Science News* (cover story), *Politico*, *New Scientist* (multiple articles), *Fast Company*, *Chicago Magazine*, *Plus Magazine*, *Poynter*, *The Sacramento Bee*, *WFYI*, *Journal-Courier*, *Süddeutsche Zeitung* (Germany), *La Recherche* (France), *NRC* (Netherlands), *La Press* (Canada), *Times of India*, and many blogs (Feb-Oct 2012)
- “McKelvey blends political science with computer skills to be top researcher” in *Herald-Times* (May 2012)
- Stories quoting our work on the spread of viral memes appeared in *CNN*, *The Atlantic*, *New Scientist* (multiple articles), *Information Week*, *Financial Review*, *Inside Indiana Business*, *IDS*, *NUVO*, *El Universal* (Mexico), *Le Temps* (Switzerland), and many blogs (Feb-Apr 2012)
- “New Google policy opens Brave New World of data collection, IU experts say” in *Herald-Times* (Mar 2012)
- “Truthy project” covered by *Wall Street Journal*, *Science*, *NPR*, *The Atlantic*, *MIT Technology Review*, *The New York Times Magazine*, *New Scientist*, *PC World*, *Ars Technica*, *Fast Company*, *Columbia Journalism Review*, *HPC Wire*, *The Register*, *Chronicle of Higher Education*, *Miller-McCune*, *CQ-Roll Call*, *Christian Science Monitor*, *Discovery Magazine*, *Futurity*, *Mobile Computing News*, *ScienceDaily*, *PhysOrg*, *Examiner*, *International Business Times*, *TheNextWeb*, *TechEye*, *Co.Design*, *TechYum*, *Social Times*, *Fort Wayne Journal Gazette*, *Tribune Star*, *WFHB*, *Slashdot*, *CACM*, *IDS*, *BrianLehrer.TV*, *El Pais* (Spain), *ABC* (Australia), *Frankfurter Allgemeine Zeit.*, *On3 Radio* (Germany), *CBC*, *CTV* (Canada), *La Repubblica* (Italy), etc. (Sep 2010-Dec 2011)
- “Model describes Web page popularity” in *PhysOrg*, also covered in *APS Physics* (Oct 2010)
- “Real-Time Search Stumbles Out of the Gate” in *IEEE Spectrum* (Feb 2010)
- “Tenure-o-meter” in *Inside Higher Ed*, also mentioned in *ACM TechNews* and *CACM* (Dec 2009)
- “How tweet it is! IU ranks among top Twitter users” and related stories in *Herald-Times*, *Chicago Tribune*, *US NEWS*, *Indianapolis Star*, *Indiana Daily Student*, *NewsDay*, *The Republic*, *Courier-Journal*, *Indianapolis Business Journal*, *News-Sentinel*, *Journal & Courier*, *Star Press*, *WIBC*, *WHAS*, and *The INDY Channel*; interview also broadcast on NBC affiliate *Channel 13* (Oct 2009)
- “Building Better Search Engines” in *IEEE Computing in Science & Eng.* (Jul/Aug 2007)

- “School Conducts Anti-Phishing Research” by Associated Press was featured in 100+ news sources including *Washington Post*, *Fox News*, *LA Times*, *MSNBC*, *BusinessWeek*, *USA Today*, *Chicago Tribune*, *Forbes*, *Seattle Post Intelligencer*, *Miami Herald*, *San Francisco Chronicle*, *Denver Post*, *Houston Chronicle*, *Philadelphia Inquirer*, *Philadelphia Daily News*, *Baltimore Sun*, *Ottawa Recorder*, *Sydney Morning Herald*, *The Age*, *Sole 24 Ore*, *Herald-Times*, *Reporter-Times*, etc.; earlier Cox News piece was featured in *Atlanta Journal-Constitution*, *Dayton Daily News*, *Austin American-Statesman* etc.; related reports appeared in *PhysOrg*, *Inside INdiana Business*, *IDS*, *ACM TechNews*, *Digg*, etc. (Feb – Jul 2007).
- “Egalitarian engines” and related stories in *The Economist*, *New Scientist*, *MIT Technology Review*, *Scientific American MIND*, *UPI*, *VNUnet*, *PhysicsWeb*, *Indiana Daily Student*, *IEEE Spectrum*, *Ars Technica*, *Slashdot*, *Forskning & Framsteg* (Sweden), *Le Scienze* (Italian Edition of *Scientific American*), *Monsters & Critics*, *PhysOrg*, *TechNews Daily*, *Political Gateway*, *Daily India*, *ACM TechNews*, *IT Week*, *Science Daily*, *EurekAlert*, *Computing*, *LaboratoryTalk*, *PC World*, *SDA Asia*, *What PC*, *BrightSurf*, *PC Authority*, *Technology Research News*, and hundreds of blogs; radio interviews aired by *BBC World Service*, *Deutschlandradio*, *WFHB*, *WFIU*, *RAI3 Scienza* (Italy) and *RTSI Impulso Web* (Switzerland) (Nov 2005 – Dec 2006).
- “Impact of censorship significant on Google, other search engine results” in *Network World* (Mar 15, 2006); related stories in *Slashdot*, *USA Today*, *PhysOrg*, *Indiana Daily Student*, *ACM TechNews*, *Technology News Daily*, *Computer World*, *CCNews*, *ePrairie*, *PC World*, *LaboratoryTalk*, *Search Engine Journal*, *InternetWorld* (Sweden), *Pandia News* (Norway), *ITR Manager* (France), *Internet24* (Poland), *c-news* (Russia), *Punto Informatico* (Italy), *El Universal* (Mexico), etc; radio interview aired on *WFIU*, *WIBC* and other NPR affiliates; coverage by many blogs around the world (Mar–Apr 2006).
- “IU prof wins \$50,000 prize for ‘best’ idea” in *Herald-Times* (Feb 1, 2006); related stories in *Wired News*, *Associated Press*, *Indianapolis Star*, *Indiana Daily Student*, *Seattle Post-Intelligencer*, *WTHR*, *WFHN*, etc. (Jan–Feb 2006)
- “Students go 'phishing' for user info” in the *Indiana Daily Student*, front page; also picked up on *Slashdot* (April 26, 2005), *IDS* editorial (April 27, 2005), and follow-up *IDS* front page article “Phishing experiment attracts national debate about ethics of study” (April 28, 2005)
- "Seasonal Spam: Outpouring of junk e-mail adds holiday touch" in *The Sacramento Bee* (December 7, 2004)
- "Here There Be Data: Mapping the Landscape official Science" from *NSF Press Release*, in *ScienceDaily*, etc.; also mentioned in *New Scientist*, *ACM TechNews*, *BBC News*, etc. (April 6, 2004)
- "Search Engines – The Future" in *ComputerWorld*, *ComputerWeekly*, *PC World*, *TechNewsWorld*, etc. (April 5, 2004)
- *MPR* interview for “Future Tense” (aired on NPR/CBS affiliates December 16, 2003)
- *WFIU* and *KMOX*'s “The Grayson Files” radio interviews (December 15, 2003)
- “E-mail ‘cluster bombs’ a disaster waiting to happen” in *ScienceDaily*, *Geek.com*, *Hindustan Times*, various *BizJournals*, etc. (December 10, 2003)
- "Webs within Web boost searches" in *Technology Research News* and *ACM TECHNews* (November 13, 2002)
- *BBC World Service* interview for "Science in Action" (October 11, 2002)
- "Web pages cluster by content type" in *Technology Research News* (January 16, 2002)
- “Entering the Biosphere” in *BotSpot Newsletter* (April 25, 2001)
- "The little search engines that can't" in *The Christian Science Monitor* (August 10, 2000)
- "It's alive!" in *Wired* 5.04 (April 1997)

Invited external talks, panels, and other contributions

- 2014 Invited talk on "The spread of information in social media," Stanford University
- 2014 Invited talk on "The spread of information in social media," Yahoo Labs, Sunnyvale
- 2014 Panelist on "A new Renaissance," CRT Foundation Lagrange Prize ceremony, Torino, Italy
- 2014 Panelist on "Predictability in socio-technical systems," ISI Fellows meeting "Science Crossroads," Torino, Italy
- 2014 Presenter and panelist at JSMF Studying Complex Systems Scholars & Postdoc Conference, Emory University
- 2014 Presentations and demos at DARPA SMISC meeting, Arlington, VA
- 2014 Invited speaker on "Social Computing," Bloomington Rotary Club
- 2014 Informatics Colloquium on "Meme diffusion in social media," University of Iowa
- 2013 Keynote on "Information dynamics in social networks" at KDD 2013 workshop on Mining Data Semantics in Heterogeneous Information Networks, Chicago
- 2013 Microsoft Research Faculty Summit panel session on "Publishing and Perishing in the 21st Century," Redmond, WA
- 2013 ISI Foundation Fellow nomination address on "Attention dynamics in social networks," Torino, Italy
- 2013 TED talk on "Apps with a purpose" at Repubblica delle Idee (Next), Florence, Italy
- 2013 Invited talk on "Attention dynamics in social networks" at NetSci2013 Satellite Workshop on Dynamic Information & Communication Networks, Copenhagen
- 2013 Web Observatory Workshop participant, Northwestern University
- 2013 Presentation at DARPA SMISC meeting, Arlington, VA
- 2012 Keynote on "The diffusion of political memes in social media" at CIKM workshop on Politics, Elections and Data (PLEAD), Maui Hawaii
- 2012 Lifelong learning symposium on "Tracking the diffusion of ideas in social media", IUB
- 2012 Invited participant, ANN/SONIC Conference on Networked Social Movements and Network Theory, USC
- 2012 Invited speaker, Annual Conference of the American Statistical Association, Chicago
- 2012 Invited panelist on Truthiness in Digital Media, Berkman Center for Internet & Society, Harvard
- 2012 Symposium speaker on "Web Surveillance", AAAS Annual Meeting, Vancouver
- 2010 Invited speaker on "How we navigate social information networks: analysis and modeling of Web and Wikipedia traffic", ESF-COST High Level Conference on Future Internet and Society: A Complex Systems Perspective, Acquafredda di Maratea, Italy
- 2010 Invited speaker, Networks and Network Analysis for the Humanities: An NEH Institute for Advanced Topics in Digital Humanities, IPAM, UCLA
- 2010 Session lead and invited poster/demo, NSF III-2010 PI Workshop, Rosslyn, VA
- 2010 Invited participant, NSF Workshop on Examining Web-Scale Research Collaboration, RPI
- 2010 Invited participant, NSF Workshop on Semantic Web and Map of Science, IUB
- 2010 Panelist, Preparing Future Faculty (PFF) Conference, IUB
- 2009 Talk on "Modeling statistical properties of text", Dept. of Informatics, Univ. Lugano, Switzerland
- 2009 Seminar on "Social similarity", Dept. of Electronics & Information, Milan Polytechnic, Italy
- 2009 Talk on "Avalanche dynamics of online popularity", Physics Dept., Univ. Barcelona, Spain
- 2009 Seminar on "Social similarity", Yahoo! Research Barcelona, Spain
- 2008 Invited lecturer on "The Web as a Social Environment", 7th Estonian Summer School on Computer and Systems Science (ESSCaSS 2008)
- 2008 Invited speaker, SFI/CAIDA Workshop on Networks and Navigation, Santa Fe Institute
- 2008 Seminar on "Search engine bias", Inst. of Cognitive Sciences & Technologies, CNR, Rome, Italy
- 2008 Colloquium on "Social search", Dept. of Computer & Information Science, Univ. of Genova, Italy
- 2008 Colloquium on "Click networks", Department of Mathematics, University of Padova, Italy
- 2008 Colloquium on "Social search", Department of Informatics, University of Torino, Italy
- 2008 Colloquium on "Click networks", interdepartmental seminar series on algorithms, Depts. of Information Science & Informatics, Sapienza University of Rome, Italy

- 2007 Demos on sixearch.org and givealink.org at CSI Piemonte Complexity Conference, Torino, Italy
- 2007 Invited speaker, "Theoretical Aspects and Models of Large, Complex and Open Information Networks", ISI Foundation, Torino, Italy
- 2007 Two invited talks: "Social search" and "Click networks", Yahoo! Research Silicon Valley
- 2007 Invited speaker, Mathematics of Knowledge and Search Engines Workshop III: Social Data Mining and Knowledge Building, IPAM, UCLA
- 2007 Invited speaker, satellite workshop "Social Websites – Complex Dynamics and Structure", European Conference on Complex Systems (ECCS07), Dresden, Germany
- 2007 Invited speaker, satellite workshop "Enhancing Social Interaction: Recommendation Systems, Reputation, P2P and Trust", European Conference on Complex Systems (ECCS07), Dresden, Germany
- 2007 Invited speaker, satellite workshop "Complex networks: Dynamics & topology interplay", European Conference on Complex Systems (ECCS07), Dresden, Germany
- 2007 Invited speaker, Stat. Phys. Satellite Conf. "Complex Networks: From Biology to Information Technology", Pula, Italy
- 2007 Invited talk "Social search", Real Age, Inc.
- 2007 Invited CogSci200 seminar, Cognitive Science Dept., UC San Diego
- 2007 Invited talk, AI seminar "Googlearchy or democracy", CSE Dept, UC San Diego
- 2007 Invited speaker, Random Shapes Workshop III: Random and Dynamic Graphs and Networks, IPAM, UCLA
- 2006 Keynote, 4th Workshop on Algorithms and Models for the Web Graph (WAW 2006), Banff, Alberta, Canada
- 2006 Tutorial, Winter School on Modelling and Mining of Networked Information Spaces, Banff, Alberta, Canada
- 2006 Presentation, International Conference on Network Science (NetSci 2006)
- 2006 Demo, INTEL Science & Engineering Fair, Indianapolis, IN
- 2005 Panelist, Symposium On Usable Privacy and Security (SOUPS 2005), CMU
- 2005 Presentation, Workshop on Structure and Function of Complex Networks, Trieste, Italy
- 2005 Colloquium, School of Information, University of Michigan
- 2005 Colloquium, IUPUI Computer & Information Science Department
- 2004 Keynote, Sigma Xi annual banquet (Bloomington Chapter)
- 2003 Presentation, Intl. Conference on growing networks and graphs in statistical physics, finance, biology, and social systems, University of Rome, La Sapienza
- 2003 Colloquium, Pennsylvania State University
- 2003 Colloquium, University of Rochester
- 2003 Colloquium, Oregon Graduate Institute
- 2003 Colloquium, University of Oregon
- 2003 Colloquium, Notre Dame University
- 2003 Colloquium, University of North Carolina
- 2003 Colloquium, University of Pittsburgh
- 2002 Presentation, Workshop on Algorithms and Models for the Web Graph (WAW 2002), Vancouver, British Columbia
- 2002 Presentation, University of Michigan - Santa Fe Institute Workshop on Complex Systems: Strategy, Organization, and Business Applications
- 2002 Presentation, AAMAS Workshop on Bioinformatics and Multi-Agent Systems (BIXMAS 2002)
- 2002 Participant, DIMACS Workshop on Internet and WWW Measurement, Mapping and Modeling
- 2002 Demo, Conference on Plagiarism in the Digital Age
- 2001 Participant, GECCO Workshop on Evolutionary Computation and Multiagent Systems (ECOMAS'01)
- 2001 Presentation, INFORMS Annual Conference, Web Mining Session
- 2001 Presentation, INFORMS Annual Conference, Ensemble Methods for Data Mining Session
- 2001 Seminar, Department of Computer Science and Engineering, UC San Diego
- 2001 Seminar, Department of Cognitive Science, University of California, San Diego

- 2001 Lecture, Evolutionary Algorithms, Department of Computer Science and Engineering, University of California, San Diego
- 2000 Seminar, Department of Information and Decision Sciences, University of Illinois Chicago
- 2000 Speaker and panelist, BOT2000, New York
- 2000 Presentation, INFORMS Annual Conference, Agent Technology Session
- 2000 Seminar, Fellows at Large Meeting, Santa Fe institute
- 2000. Presentation, Genetic and Evolutionary Computation Conference (GECCO 2000)
- 2000 Seminar, Sandia National Labs
- 1999 Seminar, Research Group on Artificial Life, National Research Council, Rome, Italy
- 1999 Participant, AAAI Spring Symposium on Intelligent Agents in Cyberspace, Stanford University
- 1998 Colloquium, IBM Almaden Research Lab
- 1998 Colloquium, School of Information Management & Systems, U.C. Berkeley
- 1998 Demo, "Active Web" (NSF \$1.5M research infrastructure grant), Univ. of California, San Diego
- 1997 Presentation, 5th RIAO Conference on Computer-Assisted Information Searching on the Internet
- 1997 Seminar, EPFL, Lausanne, Switzerland
- 1997 Demo, First International Conference on Autonomous Agents
- 1993. Participant, Santa Fe Institute Workshop on Plastic Individuals in Evolving Populations