

Curriculum Vitae: Krishna P. Gummadi

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Scientific Career

- 2012 – Present Tenured Faculty & Head of Networked Systems Research Group,
Max Planck Institute for Software Systems, Saarbruecken, Germany
- 2005 – 2011 Tenure-track Faculty & Head of Networked Systems Research Group,
Max Planck Institute for Software Systems, Saarbruecken, Germany
- 2000 – 2005 Graduate Research Assistant,
University of Washington, Seattle, WA, USA

Education

- December 2005 Ph.D. in Computer Science and Engineering, **University of Washington**, Seattle, WA, USA
- December 2002 M.S. in Computer Science and Engineering, **University of Washington**, Seattle, WA, USA
- August 2000 B.Tech. in Computer Science and Engineering, **Indian Institute of Technology, Chennai**, India

Research Interests

I am broadly interested in the measurement, modeling, analysis, design, and evaluation of complex Internet-scale systems. In the past, my research has focussed on Internet access networks, trusted cloud computing, peer-to-peer and overlay routing systems. My recent research is largely centered around *social computing systems*, which are an emerging class of societal-scale human-computer systems. Popular examples include Facebook, Twitter, YouTube, Yelp, eBay seller ratings, Wikipedia and Amazon's Mechanical Turk. My studies of social computing systems attempt to *Understand*, *Predict*, and *Control* the behaviors of their constituent human users and computer systems. Specifically, they tackle the challenges associated with assessing the credibility of information shared by anonymous online crowds, understanding and controlling privacy risks for users sharing data on online forums, understanding, predicting and influencing viral information diffusion on social media sites, and enhancing fairness and transparency of data-driven (algorithmic) decision making increasingly being used to model and replace human decision making in social computing systems.

Research

All refereed publications are listed in reverse chronological order at *the end of this document*.

Bibliometrics (from Google Scholar): <https://scholar.google.com/citations?user=Bz3APT5AAAAJ>

- Citation count: **19,916**, H-index: **40**, i10-index: **63**
- Spread of publications across highly selective venues in different research communities
 - **Systems and Networking** (# pubs: **22**): SOSP / OSDI (3), NSDI (2), SIGCOMM (3), IMC (9), CoNEXT (1), EuroSys (1), HotNets (1), HotDep (1), HotCloud (1)
 - **Security and Privacy** (# pubs: **6**): Usenix Security (2), SOUPS (2), WPES (1), USEC (1)
 - **Datamining, Information Retrieval, and Machine Learning** (# pubs: **18**): WWW (5), WSDM (2), KDD (1), SIGIR (2), CIKM (2), RecSys (1), Trans. on the Web (1), AISTATS (1), FAT-ML (3)
 - **Social Computing, Social Media, and HCI** (# pubs: **20**): ICWSM (10), W/COSN (5), CSCW (3), CHI (1), UbiComp (1)

Award papers:

- *Best paper honorable mention*: IC3W2 Conference on the World Wide Web (WWW) 2017
- *Best paper*: NIPS Symposium on ML and Law (ML+Law) 2016
- *Best paper*: ACM Conference on Online Social Networks (COSN) 2015
- *Distinguished paper*: USENIX Symposium on Usable Privacy and Security (SOUPS) 2014
- *Best paper*: AAAI International Conference on Weblogs and Social Media (ICWSM) 2012
- *Selected top picks*: ACM SIGCOMM Workshop on Online Social Networks (WOSN) 2012
- *Best student paper*: Usenix Symposium on Operating Systems Design and Implementation (OSDI) 2002
- *Best student paper*: ACM SIGCOMM Internet Measurement Workshop (IMW) 2002
- *Best paper*: SPIE/ACM Conference on Multimedia Computing and Networking (MMCN) 2002

Broader impact:

- *Online social networks and social media*: Datasets from empirical studies of the structure and evolution of online social networks as well as information diffusion over them, have been used by *several thousand research groups*. Several (over 12) public releases of software code, apps, and system deployments on a variety of topics ranging from *trust assessment, fraud detection, and privacy risk assessment and management to search and recommender systems and learning fair decision making*. Many of our apps and systems have been used by *several hundreds to several thousands of end users and research groups*. They have also influenced fraud detection designs at companies like Facebook and Yelp and search and recommender system designs at companies like Twitter.
- *Internet transparency*: Publicly deployed *Glasnost* system to make access ISPs' traffic shaping transparent, has been used by *several millions of end users*, telecom *regulators in several countries* (including US, Canada, Singapore, and multiple EU countries), and catalyzed the creation of *Measurement-Lab*, a partnership of academic and industry researchers and policy makers to build and support tools to make the Internet more transparent. Recently deployed services to make *FreeBasics* (a free mobile Internet access program for developing world) transparent, are being used by *several thousand users every day*.
- *Peer-to-peer systems*: Datasets gathered by our studies of peer-to-peer file sharing systems have been used by *a few thousand research groups*.
- *Internet measurement tools*: Internet path latency and bandwidth measurement tools (*King* and *sProbe*) have been used by *several hundreds of research groups*.

Advising & Mentoring

Past advisees (with their year of graduation and their first employment):

Postdoctoral researchers:

1. Rijurekha Sen (to join in 2018), Assistant Professor IIT Kanpur, India
2. Oana Goga (2017) Researcher at CNRS, France
3. Saptarshi Ghosh (2016) Assistant Professor at IIT Kharagpur, India
4. Denzil Correa (2016) Data Scientist at Bayer Business Services, Germany
5. Meeyoung Cha (2010) Assistant Professor at KAIST, Korea (Currently Associate Professor)

Doctoral (Ph.D.) students:

1. Bimal Viswanath (2016) Researcher at Bell Labs, Germany
2. Nuno Santos (2013) Assistant Professor at IST, Portugal
3. Massimiliano Marcon (2011) Software Engineer at SAP, Germany
4. Marcel Dischinger (2010) Senior Software Engineer at Barracuda networks, Germany
5. Alan Mislove (2009) Assistant Professor at Northeastern University, USA (Currently Associate Professor)

Masters students:

1. Naveen Kumar Sharma (2012) Ph.D. student, University of Washington, USA
2. Farshad Kooti (2012) Ph.D. student, University of Southern California, USA
3. Alexey Reznichenko (2010) Ph.D. student, Max Planck Institute for Software Systems, Germany

Research interns:

Advised more than 25 undergraduate and graduate interns over the past 12 years. Many of the undergraduate interns have gone on to pursue Ph.D. programs at various universities, including UC Berkeley, MIT, Cornell, University of Washington, UC San Diego, University of Michigan, and University of Wisconsin. Several of the graduate interns have assumed faculty or researcher positions at different organizations including UBC (Canada), UFMG (Brazil), QMUL (UK), Google Research (USA), and QCRI (Qatar).

Current advisees:

Postdoctoral researchers:

Przemyslaw Grabowicz (2013 –)

Doctoral (Ph.D.) students:

Till Speicher (2017 –), Nina Grgic-Hlaca (2016 –), Abhijnan Chakraborty (2015 –), Joanna Biega (2014 –), Reza Babaei (2013 –), Muhammad Bilal Zafar (2012 –), Juhi Kulshrestha (2011 –), Mainack Mondal (2010 –)

Teaching Activities

University of Saarland:

- Core undergraduate course on *Distributed Systems*, Winter 2016
- Advanced undergraduate course on *Social Media Analysis*, Summer 2016
- Graduate seminar on *Human vs. Algorithmic Decision Making: Bias, Fairness, & Transparency*, Winter 2015
- Graduate seminar on *Security and Privacy in Online Social Networks*, Summer 2013
- Core undergraduate course in *data networks*, Summer 2007

Summer & Winter Schools:

- Estonian Summer School on Computer and Systems Science, Summer 2012
- INRIA's Winter School on Hot Topics in Distributed Systems, Winter 2010

Professional Service

- As **General Conference Co-Chair:**
AAAI's International Conference on Web and Social Media (ICWSM) 2016, Cologne, Germany
- As **Program Committee Co-Chair:**
 - Data Transparency Lab Conference (DTL) 2015, Cambridge, MA, USA
 - International World Wide Web Conference (WWW) 2015, Florence, Italy
 - ACM Conference on Online Social Networks (COSN) 2014, Dublin, Ireland
 - ACM SIGCOMM Internet Measurement Conference (IMC) 2013, Barcelona, Spain.
- As **Program Committee Member:** Served on several PCs of internationally leading conferences and workshops in the following areas (only select ones mentioned):
 - *Distributed systems and networking:* SIGCOMM 2014-2012, 2009-2007; IMC 2016, 2012, 2010; NSDI 2013, 2009-2007; OSDI 2012;

- *Data mining, databases, web search, and ML*: ICDE 2018, KDD 2017-2015; VLDB 2014; WWW 2017-2013, 2010; WSDM 2017-2016, 2012; FAT-ML 2017-2016
- *Security and privacy*: IEEE S&P (Oakland) 2014; NDSS 2014
- *Social media and computational social science*: ICWSM 2015-2014; COSN 2015-2013; WebScience 2016
- As **Associate Editor**:
 - ACM Transactions on the Web (2014 - *Present*)
 - EVISE Information Systems Journal (2016 - *Present*)
- As **Guest Editor**:
 - A special issue of IEEE Journal on Selected Areas in Communication (J-SAC) on *Measurement of Internet Topologies* 2012
- As **Steering / Organizing Committee Member**:
 - Measurement Lab (M-Lab) (2009 - *Present*)
 - AAI's International Conference on Web and Social Media (ICWSM) (2016 - *Present*)
 - Data and Algorithmic Transparency Workshop (DAT) (2016 - *Present*)
- As **Scientific Advisory Board Member**:
 - Labex User Centric Network (UCN@Sophia) (2016 - *Present*)
- As **Selection Committee / Review Panel Member**:
 - DFG's (German Science Foundation) review panel for a priority program on Geo-Informatics 2016
 - ESF's (European Science Foundation) selection committee for a new ICT institute in Cantabria 2011

Recent and Upcoming Invited / Keynote / Distinguished Lectures

- ISAT/DARPA's Workshop on *Technologies for Scalable, Self-Organizing Communities*, New York, January 2017.
- IEEE SMC's Inter-disciplinary Workshop on *The Human Use of Machine Learning*, Venice, December 2016.
- IEEE ICDM Workshop on *Privacy and Discrimination in Datamining*, Barcelona, December 2016.
- NIPS workshop on *ML and Law*, Barcelona, December 2016.
- 3rd GESIS *Winter Computational Social Science* Symposium, Cologne, November 2016.
- Complex System Society's *2016 Conference on Complex Systems*, Amsterdam, September 2016.
- Microsoft Research's Third Annual Symposium on *Machine Learning: Technology, Law, & Policy*, Cambridge, September 2016.
- 2016 Workshop on *Social Impact Through Network Science (SINS)*, Venice, June 2016.
- Distinguished lecture at Laboratoire d'Informatique de Grenoble, CNRS Grenoble, January 2016.

Institute Service

- As **Founding member**: Joined the institute at the time of its founding in 2005
 - *MPI-SWS graduate program chair*: As the first grad program chair between 2005 and 2008, led the establishment of the program, including defining the program requirements and setting up the website.
 - *MPI-SWS internship program chair*: As the first intern program chair between 2005 and 2007, led the establishment of the program, which continues to thrive to this day.
- As **Faculty recruiting committee chair**: 2014, 2016
- As **Internship program chair**: 2010-2011, 2012-2013
- As **Institute website re-design committee chair**: 2015-2016

Fund Raising

My research is funded in large part by generous base funding that is awarded by the virtue of my position at the institute. Also, several of my postdocs (5 postdocs) and PhD students (2) won competitive industry and external (e.g., Google PhD and Humboldt postdoctoral) scholarships for their research projects. Additional information about external grants is provided below:

- Co-PI for a 5-year 250,000 Euro DFG (German Research Foundation) / DST (Indian Science Foundation) research grant on the topic of *Online Social Networks* (2011-2015)
- PI on a 4-year 250,000 Euro DFG funded research grant, which is part of a large Collaborative Research Center grant on the topic of *Methods and Tools for Understanding and Controlling Privacy* (2016 - Present)
- Unrestricted grant for 25,000 Euros from AT&T for conducting research on *Impact of Data Deletion in Social Media on Data Quality* (2015-2016)

Publications (listed in reverse chronological order)

- [1] Muhammad Bilal Zafar, Isabel Valera, Manuel Gomez-Rodriguez, and Krishna P. Gummadi. Fairness beyond disparate treatment & disparate impact: Learning classification without disparate mistreatment. In *Proceedings of the 26th International Conference on World Wide Web, WWW 2017, Perth, Australia, April 3-7, 2017*. https://people.mpi-sws.org/~gummadi/papers/disparate_mistreatment_www2017.pdf
Citation count: 6, Best paper honorable mention award
- [2] Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, and Krishna P. Gummadi. Optimizing the recency-relevancy trade-off in online news recommendations. In *Proceedings of the 26th International Conference on World Wide Web, WWW 2017, Perth, Australia, April 3-7, 2017*. https://people.mpi-sws.org/~gummadi/papers/disparate_mistreatment_www2017.pdf
- [3] Juhi Kulshrestha, Motahhare Eslami, Johnnatan Messias, Muhammad Bilal Zafar, Saptarshi Ghosh, Krishna P. Gummadi, and Karrie G. Karahalios. *Quantifying Search Bias: Investigating Sources of Bias for Political Searches in Social Media*. In *Proceedings of the 20th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW), Portland, OR, February 2017, 2017*
- [4] Miguel Ferreira, Muhammad Bilal Zafar, Isabel Valera, and Krishna P. Gummadi. *The Case for Temporal Transparency: Detecting Policy Change Events in Black-Box Decision Making Systems*. In *3rd Workshop on Fairness, Accountability, and Transparency in Machine Learning (FAT-ML), New York City, NY, November 2016., 2016*
- [5] Muhammad Bilal Zafar, Isabel Valera, Manuel Gomez-Rodriguez, and Krishna P. Gummadi. *Fairness Beyond Disparate Treatment and Disparate Impact: Learning Classification Without Disparate Mistreatment*. In *3rd Workshop on Fairness, Accountability, and Transparency in Machine Learning (FAT-ML), New York City, NY, November 2016., 2016*
- [6] Rijurekha Sen, Hasnain Ali Pirzada, Amreesh Phokeer, Zaid Ahmed Farooq, Satadal Sengupta, David Choffnes, and Krishna P. Gummadi. *On the Free Bridge Across the Digital Divide: Assessing the Quality of Facebook's Free Basics Service*. In *Proceedings of the 16th ACM Internet Measurement Conference (IMC), Santa Monica, CA, November 2016., 2016*. <http://www.mpi-sws.org/~gummadi/papers/FreeBasics-IMC16.pdf>
- [7] Michael Backes, Pascal Berrang, Oana Goga, Krishna P. Gummadi, and Praveen Manoharan. *On Profile Linkability Despite Anonymity in Social Media Systems*. In *Proceedings of the 2016 ACM Workshop on Privacy in the Electronic Society (WPES), 2016*. <http://www.mpi-sws.org/~gummadi/papers/reddit-WPES2016.pdf>

- [8] Joanna Asia Biega, Krishna P. Gummadi, Ida Mele, Dragan Milchevski, Christos Tryfonopoulos, and Gerhard Weikum. *R-Susceptibility: An IR-Centric Approach to Assessing Privacy Risks for Users in Online Communities*. In *Proceedings of the 39th International ACM SIGIR conference on Research and Development in Information Retrieval, SIGIR 2016, Pisa, Italy, July 17-21, 2016*, pages 365–374, 2016. <http://www.mpi-sws.org/~gummadi/papers/fp385-biegaA.pdf>
- [9] Mainack Mondal, Johnnatan Messias, Saptarshi Ghosh, Krishna P. Gummadi, and Aniket Kate. *Forgetting in Social Media: Understanding and Controlling Longitudinal Exposure of Socially Shared Data*. In *Twelfth Symposium on Usable Privacy and Security, SOUPS 2016, Denver, CO, USA, June 22-24, 2016*, pages 287–299, 2016. http://www.mpi-sws.org/~gummadi/papers/longitudinal_exposure.pdf
- [10] Muhammad Bilal Zafar, Krishna P. Gummadi, and Cristian Danescu-Niculescu-Mizil. *Message Impartiality in Social Media Discussions*. In *Proceedings of the Tenth International Conference on Web and Social Media, Cologne, Germany, May 17-20, 2016.*, pages 466–475, 2016. <http://www.mpi-sws.org/~gummadi/papers/impartiality.pdf>
Citation count: 1
- [11] Przemyslaw A. Grabowicz, Niloy Ganguly, and Krishna P. Gummadi. *Distinguishing between Topical and Non-Topical Information Diffusion Mechanisms in Social Media*. In *Proceedings of the Tenth International Conference on Web and Social Media, Cologne, Germany, May 17-20, 2016.*, pages 151–160, 2016. http://www.mpi-sws.org/~gummadi/papers/topical_nontopical_diffusion.pdf
Citation count: 1
- [12] Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, and Krishna P. Gummadi. *Dissemination Biases of Social Media Channels: On the Topical Coverage of Socially Shared News*. In *Proceedings of the Tenth International Conference on Web and Social Media, Cologne, Germany, May 17-20, 2016.*, pages 559–562, 2016. <http://www.aaai.org/ocs/index.php/ICWSM/ICWSM16/paper/view/13131>
- [13] Rijurekha Sen, Daniele Quercia, Carmen Karina Vaca Ruiz, and Krishna P. Gummadi. *Scalable Urban Data Collection from the Web*. In *Proceedings of the Tenth International Conference on Web and Social Media, Cologne, Germany, May 17-20, 2016.*, pages 683–686, 2016. <https://www.aaai.org/ocs/index.php/ICWSM/ICWSM16/paper/viewPDFInterstitial/13140/12828>
- [14] Giridhari Venkatadri, Oana Goga, Changtao Zhong, Bimal Viswanath, Krishna P. Gummadi, and Nishanth R. Sastry. *Strengthening Weak Identities Through Inter-Domain Trust Transfer*. In *Proceedings of the 25th International Conference on World Wide Web, WWW 2016, Montreal, Canada, April 11 - 15, 2016*, pages 1249–1259, 2016. http://www.mpi-sws.org/~gummadi/papers/transfer_trust_WWW2016.pdf
- [15] Mahmoudreza Babaei, Przemyslaw A. Grabowicz, Isabel Valera, Krishna P. Gummadi, and Manuel Gomez-Rodriguez. *On the Efficiency of the Information Networks in Social Media*. In *Proceedings of the Ninth ACM International Conference on Web Search and Data Mining, San Francisco, CA, USA, February 22-25, 2016*, pages 83–92, 2016. http://www.mpi-sws.org/~gummadi/papers/network_efficiency.pdf
Citation count: 1
- [16] Muhammad Bilal Zafar, Parantapa Bhattacharya, Niloy Ganguly, Saptarshi Ghosh, and Krishna P. Gummadi. *On the Wisdom of Experts vs. Crowds: Discovering Trustworthy Topical News in Microblogs*. In *Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing, CSCW 2016, San Francisco, CA, USA, February 27 - March 2, 2016*, pages 437–450, 2016. http://www.mpi-sws.org/~gummadi/papers/experts_crowds_cscw.pdf

- [17] Bimal Viswanath, Muhammad Ahmad Bashir, Muhammad Bilal Zafar, Simon Bouget, Saikat Guha, Krishna P. Gummadi, Aniket Kate, and Alan Mislove. *Strength in Numbers: Robust Tamper Detection in Crowd Computations*. In *Proceedings of the 2015 ACM on Conference on Online Social Networks, COSN 2015, Palo Alto, California, USA, November 2-3, 2015*, pages 113–124, 2015. <http://www.mpi-sws.org/~gummadi/papers/cosn61-viswanathA1.pdf>
Citation count: 5, Best paper award
- [18] Oana Goga, Patrick Loiseau, Robin Sommer, Renata Teixeira, and Krishna P. Gummadi. *On the Reliability of Profile Matching Across Large Online Social Networks*. In *Proceedings of the 21th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Sydney, NSW, Australia, August 10-13, 2015*, pages 1799–1808, 2015. http://www.mpi-sws.org/~gummadi/papers/matching_kdd15.pdf
Citation count: 9
- [19] Juhi Kulshrestha, Muhammad Bilal Zafar, Lisette Espin Noboa, Krishna P. Gummadi, and Saptarshi Ghosh. *Characterizing Information Diets of Social Media Users*. In *Proceedings of the Ninth International Conference on Web and Social Media, ICWSM 2015, University of Oxford, Oxford, UK, May 26-29, 2015*, pages 218–227, 2015. http://www.mpi-sws.org/~gummadi/papers/info_diet.pdf
Citation count: 12
- [20] Oana Goga, Giridhari Venkatadri, and Krishna P. Gummadi. *The Doppelgänger Bot Attack: Exploring Identity Impersonation in Online Social Networks*. In *Proceedings of the 2015 ACM Internet Measurement Conference, IMC 2015, Tokyo, Japan, October 28-30, 2015*, pages 141–153, 2015. http://www.mpi-sws.org/~gummadi/papers/impersonators_IMC2015.pdf
Citation count: 2
- [21] Denzil Correa, Leandro Araújo Silva, Mainack Mondal, Fabrício Benevenuto, and Krishna P. Gummadi. *The Many Shades of Anonymity: Characterizing Anonymous Social Media Content*. In *Proceedings of the Ninth International Conference on Web and Social Media, ICWSM 2015, University of Oxford, Oxford, UK, May 26-29, 2015*, pages 71–80, 2015. http://www.mpi-sws.org/~gummadi/papers/anonymity_shades.pdf
Citation count: 11
- [22] Muhammad Bilal Zafar, Isabel Valera, Manuel Gomez-Rodriguez, and Krishna P. Gummadi. *Fairness Constraints: A Mechanism for Fair Classification*. In *2nd Workshop on Fairness, Accountability, and Transparency in Machine Learning (FATML)*, 2015. http://www.mpi-sws.org/~gummadi/papers/fatml_15.pdf
Citation count: 5
- [23] Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, and Krishna P. Gummadi. *Can Trending News Stories Create Coverage Bias? On the Impact of High Content Churn in Online News Media*. In *proceedings of Computation + Journalism Symposium*, 2015. http://www.mpi-sws.org/~gummadi/papers/temporal_coverage_bias_online_media.pdf
Citation count: 1
- [24] Przemyslaw A. Grabowicz, Niloy Ganguly, and Krishna P. Gummadi. *Microscopic Description and Prediction of Information Diffusion in Social Media: Quantifying the Impact of Topical Interests*. In *Proceedings of the 24th International Conference on World Wide Web Companion, WWW 2015, Florence, Italy, May 18-22, 2015 - Companion Volume*, pages 621–622, 2015. <http://www.www2015.it/documents/proceedings/companion/p621.pdf>
- [25] Muhammad Bilal Zafar, Parantapa Bhattacharya, Niloy Ganguly, Krishna P. Gummadi, and Saptarshi Ghosh. *Sampling Content from Online Social Networks: Comparing Random vs. Expert Sampling of*

the Twitter Stream. *TWEB*, 9(3):12, 2015. http://www.mpi-sws.org/~gummadi/papers/sampletwitter_tweb.pdf

Citation count: 6

- [26] Mainack Mondal, Peter Druschel, Krishna P. Gummadi, and Alan Mislove. *Beyond Access Control: Managing Online Privacy via Exposure*. In *Proceedings of the Workshop on Useable Security (USEC'14)*, 2014. <http://www.mpi-sws.org/~gummadi/papers/usec2014-exposure.pdf>

Citation count: 8

- [27] Bimal Viswanath, Muhammad Ahmad Bashir, Mark Crovella, Saikat Guha, Krishna P. Gummadi, Balachander Krishnamurthy, and Alan Mislove. *Towards Detecting Anomalous User Behavior in Online Social Networks*. In *Proceedings of the 23rd USENIX Security Symposium, San Diego, CA, USA, August 20-22, 2014.*, pages 223–238, 2014. <http://www.mpi-sws.org/~gummadi/papers/anomalous-socialbehavior.pdf>

Citation count: 40

- [28] Parantapa Bhattacharya, Muhammad Bilal Zafar, Niloy Ganguly, Saptarshi Ghosh, and Krishna P. Gummadi. *Inferring user interests in the Twitter social network*. In *Eighth ACM Conference on Recommender Systems, RecSys '14, Foster City, Silicon Valley, CA, USA - October 06 - 10, 2014*, pages 357–360, 2014. <http://www.mpi-sws.org/~gummadi/papers/recsys14-userinterests.pdf>

Citation count: 28

- [29] Manuel Gomez-Rodriguez, Krishna P. Gummadi, and Bernhard Schölkopf. *Quantifying Information Overload in Social Media and Its Impact on Social Contagions*. In *Proceedings of the Eighth International Conference on Weblogs and Social Media, ICWSM 2014, Ann Arbor, Michigan, USA, June 1-4, 2014.*, 2014. <http://www.mpi-sws.org/~gummadi/papers/icwsm2014-overload.pdf>

Citation count: 31

- [30] Flavio Figueiredo, Jussara M. Almeida, Fabrício Benevenuto, and Krishna P. Gummadi. *Does content determine information popularity in social media?: a case study of youtube videos' content and their popularity*. In *CHI Conference on Human Factors in Computing Systems, CHI'14, Toronto, ON, Canada - April 26 - May 01, 2014*, pages 979–982, 2014. <http://www.mpi-sws.org/~gummadi/papers/chi2014-contentpopularity.pdf>

Citation count: 12

- [31] Mainack Mondal, Yabing Liu, Bimal Viswanath, Krishna P. Gummadi, and Alan Mislove. *Understanding and Specifying Social Access Control Lists*. In *Tenth Symposium on Usable Privacy and Security, SOUPS 2014, Menlo Park, CA, USA, July 9-11, 2014*, pages 271–283, 2014. <http://www.mpi-sws.org/~gummadi/papers/soups2014-sacls.pdf>

Citation count: 10, Distinguished paper award

- [32] Parantapa Bhattacharya, Saptarshi Ghosh, Juhi Kulshrestha, Mainack Mondal, Muhammad Bilal Zafar, Niloy Ganguly, and Krishna P. Gummadi. *Deep Twitter diving: exploring topical groups in microblogs at scale*. In *Computer Supported Cooperative Work, CSCW '14, Baltimore, MD, USA, February 15-19, 2014*, pages 197–210, 2014. http://www.mpi-sws.org/~gummadi/papers/topicgroups_twitter.pdf

Citation count: 15

- [33] Jisun An, Daniele Quercia, Meeyoung Cha, Krishna P. Gummadi, and Jon Crowcroft. *Sharing political news: the balancing act of intimacy and socialization in selective exposure*. *EPJ Data Science*, 3, 2014. <http://epjdatascience.springeropen.com/articles/10.1140/epjds/s13688-014-0012-2>

Citation count: 13

- [34] Krishna P. Gummadi. *Addressing the privacy management crisis in online social networks*. In *22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013, Companion Volume*, pages 841–842, 2013. http://www.mpi-sws.org/~gummadi/papers/iab_position.pdf
Citation count: 6
- [35] Saptarshi Ghosh, Muhammad Bilal Zafar, Parantapa Bhattacharya, Naveen Kumar Sharma, Niloy Ganguly, and Krishna P. Gummadi. *On sampling the wisdom of crowds: random vs. expert sampling of the twitter stream*. In *22nd ACM International Conference on Information and Knowledge Management, CIKM'13, San Francisco, CA, USA, October 27 - November 1, 2013*, pages 1739–1744, 2013. <http://www.mpi-sws.org/~gummadi/papers/sampletwitter.pdf>
Citation count: 24
- [36] Jisun An, Daniele Quercia, Meeyoung Cha, Krishna P. Gummadi, and Jon Crowcroft. *Traditional media seen from social media*. In *Web Science 2013 (co-located with ECRC), WebSci '13, Paris, France, May 2-4, 2013*, pages 11–14, 2013. <http://dl.acm.org/citation.cfm?id=2464492>
- [37] Farshad Kooti, Winter A. Mason, Krishna P. Gummadi, and Meeyoung Cha. *Predicting emerging social conventions in online social networks*. In *21st ACM International Conference on Information and Knowledge Management, CIKM'12, Maui, HI, USA, October 29 - November 02, 2012*, pages 445–454, 2012. <http://www.mpi-sws.org/~gummadi/papers/conventions.pdf>
Citation count: 19
- [38] Meeyoung Cha, Fabrício Benevenuto, Hamed Haddadi, and Krishna P. Gummadi. *The World of Connections and Information Flow in Twitter*. *IEEE Trans. Systems, Man, and Cybernetics, Part A*, 42(4):991–998, 2012. <http://www.mpi-sws.org/~gummadi/papers/cybernetics-final.pdf>
Citation count: 86
- [39] Nuno Santos, Rodrigo Rodrigues, Krishna P. Gummadi, and Stefan Saroiu. *Policy-Sealed Data: A New Abstraction for Building Trusted Cloud Services*. In *Proceedings of the 21th USENIX Security Symposium, Bellevue, WA, USA, August 8-10, 2012*, pages 175–188, 2012. http://www.mpi-sws.org/~gummadi/papers/santos_usenixsecurity12.pdf
Citation count: 95
- [40] Bimal Viswanath, Mainack Mondal, Krishna P. Gummadi, Alan Mislove, and Ansley Post. *Canal: scaling social network-based Sybil tolerance schemes*. In *European Conference on Computer Systems, Proceedings of the Seventh EuroSys Conference 2012, EuroSys '12, Bern, Switzerland, April 10-13, 2012*, pages 309–322, 2012. <http://www.mpi-sws.org/~gummadi/papers/Canal-EuroSys.pdf>
Citation count: 38
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