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Research Interests

Systems security and privacy, systems and data science aspects of social computing platforms, measurement and analysis of networked and distributed systems

Education

Doctor of Philosophy in Computer Science

10/2008 - 04/2016

Saarland University and Max Planck Institute for Software Systems (MPI-SWS), Saarbruecken, Germany

Advisors: Krishna P. Gummadi, Alan Mislove

Thesis: Towards Trustworthy Social Computing Systems

Master of Science in Computer Science and Engineering

08/2005 - 08/2008

Indian Institute of Technology Madras, Chennai, India

Advisor: C. Siva Ram Murthy

Thesis: A Stochastic Model for TCP over Optical Burst Switching Networks

Bachelor of Technology in Computer Science and Engineering Cochin University of Science and Technology, Cochin, India 10/2001 - 05/2005

Employment History

Researcher 10/2015 – Present

Nokia Bell Labs, Stuttgart, Germany

Research topic: Cloud Computing, Data Analytics

Ph.D. Candidate 09/2008 - 9/2015

Max Planck Institute for Software Systems, Kaiserslautern/Saarbruecken, Germany

Advisors: Krishna P. Gummadi, Alan Mislove

Research topic: Security and Privacy in Social Computing Systems

Research Intern 06/2012 - 09/2012

Microsoft Research, Bangalore, India

Mentor: Saikat Guha

Research topic: Understanding Social Ad Traffic Quality

Research Intern 07/2011 - 09/2011

Northeastern University, Boston, MA, USA

Mentor: Alan Mislove

Research topic: Building Scalable Sybil Tolerant Systems

Research Intern 06/2010 - 09/2010

Microsoft Research, Redmond, WA, USA Mentors: Emre Kıcıman, Stefan Saroiu

Research topic: User Privacy from Third-Party Social applications

Graduate Student 08/2005 - 08/2008

Indian Institute of Technology Madras, Chennai, India

Advisor: C. Siva Ram Murthy

Research topic: Optical Burst Switching Networks

Honors and Awards

Best Paper Award, ACM Conference on Online Social Networks (COSN), 2015

Distinguished Paper Award, Symposium on Usable Privacy and Security (SOUPS), 2014

Institutional nominee, Google European Doctoral Fellowship, 2013

Graduate student fellowship, MPI-SWS, 2008 - Present

Graduate student fellowship, Ministry of Human Resources and Development (MHRD), Government of India, 2005-2008

Publications

Total Citations: 2007, H-Index: 11 (Source: Google Scholar¹ as of August 2016)

Refereed Conference Publications

- Strengthening Weak Identities Through Inter-Domain Trust Transfer Giridhari Venkatadri, Oana Goga, Changtao Zhong, Bimal Viswanath, Krishna P. Gummadi and Nishanth Sastry WWW, Montreal, Canada, April 2016
- [2] Strength in Numbers: Robust Tamper Detection in Crowd Computations Bimal Viswanath, M. Ahmad Bashir, M. Bilal Zafar, Simon Bouget, Saikat Guha, Krishna P. Gummadi, Aniket Kate, and Alan Mislove COSN, Stanford University, CA, USA, November 2015
- [3] Towards Detecting Anomalous User Behavior in Online Social Networks
 Bimal Viswanath, M. Ahmad Bashir, Mark Crovella, Saikat Guha, Krishna P. Gummadi, Balachander
 Krishnamurthy and Alan Mislove
 USENIX Security, San Diego, CA, USA, August 2014
- [4] Understanding and Specifying Social Access Control Lists Mainack Mondal, Yabing Liu, Bimal Viswanath, Krishna P. Gummadi and Alan Mislove SOUPS, Menlo Park, CA, USA, July 2014
- [5] Defending Against Large-scale Crawls in Online Social Networks Mainack Mondal, Bimal Viswanath, Allen Clement, Peter Druschel, Krishna P. Gummadi, Alan Mislove, and Ansley Post CoNEXT, Nice, France, December 2012
- [6] Canal: Scaling Social Network-based Sybil Tolerance Schemes Bimal Viswanath, Mainack Mondal, Krishna P. Gummadi, Alan Mislove, and Ansley Post EuroSys, Bern, Switzerland, April 2012

¹http://scholar.google.com/citations?user=bu1SCOuD_CMC&hl=en

[7] Understanding and Combating Link Farming in the Twitter Social Network Saptarshi Ghosh (co-primary author), Bimal Viswanath (co-primary author), Farshad Kooti, Naveen Kumar Sharma, Korlam Gautam, Fabricio Benevenuto, Niloy Ganguly, and Krishna P. Gummadi WWW, Lyon, France, April 2012

- [8] An Analysis of Social Network-based Sybil Defenses Bimal Viswanath, Ansley Post, Krishna P. Gummadi, and Alan Mislove SIGCOMM, New Delhi, India, August 2010
- [9] You Are Who You Know: Inferring User Profiles in Online Social Networks Alan Mislove, Bimal Viswanath, Krishna P. Gummadi, and Peter Druschel WSDM, New York, NY, February 2010
- [10] A Markov Chain Model for TCP NewReno over Optical Burst Switching Networks Bimal Viswanath, T. Venkatesh, and C. Siva Ram Murthy GLOBECOM, Washington D.C, November 2007.

Refereed Workshop Publications

- [11] Keeping Information Safe from Social Networking Apps Bimal Viswanath, Emre Kıcıman, and Stefan Saroiu WOSN, Helsinki, Finland, August 2012
- [12] Simplifying Friendlist Management (Demo Paper) Yabing Liu, Bimal Viswanath, Mainack Mondal, Krishna P. Gummadi, and Alan Mislove WWW, Lyon, France, April 2012
- [13] Sharing Social Content from Home: A Measurement-driven Feasibility Study Massimiliano Marcon, Bimal Viswanath, Meeyoung Cha, and Krishna P. Gummadi NOSSDAV, Vancouver, Canada, June 2011
- [14] On the Evolution of User Interaction in Facebook Bimal Viswanath, Alan Mislove, Meeyoung Cha, and Krishna P. Gummadi WOSN, Barcelona, Spain, August 2009

Refereed Journal Publications

[15] A Stochastic Model for the Behavior of Multiple TCP NewReno Sources over Optical Burst Switching Network

Bimal Viswanath, T. Venkatesh, C. Siva Ram Murthy Photonic Network Communications, October 2011

Non-Refereed Publications

- [16] Defending Against Large-scale Crawls in Online Social Networks Mainack Mondal, Bimal Viswanath, Allen Clement, Peter Druschel, Krishna P. Gummadi, Alan Mislove, and Ansley Post Technical Report 2011-006, MPI-SWS, November 2011
- [17] Exploring the Design Space of Social Network-based Sybil Defenses (Invited Paper) Bimal Viswanath, Mainack Mondal, Allen Clement, Peter Druschel, Krishna P. Gummadi, Alan Mislove, and Ansley Post COMSNETS, Bangalore, India, January 2012

Invited Talks

"Strength in Numbers: Robust Tamper Detection in Crowd Computations", Yelp Security Team, San Francisco, CA, USA, November 2015

"Towards Trustworthy Social Computing Systems"

NEC Laboratories Europe, Heidelberg, Germany, March 2015

Bell Labs, Stuttgart, Germany, March 2015

Microsoft Research India, Bangalore, India, April 2015

Telefonica Research, Barcelona, Spain, May 2015

"Understanding and Combating Link Farming in the Twitter Social Network", Réseaux et individus, Informatique et sciences sociales, Paris-Diderot University, Paris, France, November 2012

Conference/Workshop Talks

"Strength in Numbers: Robust Tamper Detection in Crowd Computations", COSN, Stanford University, CA, USA, November 2015

"Towards Detecting Anomalous User Behavior in Online Social Networks", USENIX Security, San Diego, CA, USA, August 2014

"Understanding and combating link farming in the Twitter social network", WWW, Lyon, France, April 2012

"Canal: Scaling social network-based Sybil tolerance schemes", EuroSys, Bern, Switzerland, April 2012

"Keeping information safe from social networking apps", WOSN, Helsinki, Finland, August 2012

"Sharing social networking content from home: A measurement-driven feasibility study", NOSSDAV, Vancouver, Canada, June 2011

"An analysis of Social network-based Sybil defenses", SIGCOMM, New Delhi, India, August 2010

"On the evolution of user interaction in Facebook", WOSN, Barcelona, Spain, August 2009

Software

TrulyTweeting, http://trulytweeting.app-ns.mpi-sws.org/: A service to detect tampered tweet promotions.

TrulyFollowing, http://trulyfollowing.app-ns.mpi-sws.org/: A service to detect users with tampered follower counts.

Service

PC Member: Social Networking Workshop at COMSNETS (2015), ICWSM (2015), COMSNETS (2016), ICWSM (2016)

Reviewer: IEEE Network Special Issue on Online Social Network (2010), IEEE TDSC, IEEE TON

External Reviewer: CCS (2011), EuroSys (2012), IMC (2012), PAM (2011), SIGCOMM (2009), SYSTOR (2011), ACM TKDD

Teaching Experience

Instructor, Readings in Social Computing Systems, Saarland University, Summer 2013.

Teaching Assistant, Operating Systems, Saarland University, Summer 2009.

Teaching Assistant, Computational Engineering, IIT Madras, July-November 2005 and January-May 2006

Teaching Assistant, Performance Evaluation of Computer Systems, IIT Madras, July-November 2006 and July-November 2007.

Teaching Assistant, Network Management Systems, IIT Madras, January-May 2006.

Advising

Summer Interns at MPI-SWS: Advait Alai, M. Ahmad Bashir, Simon Bouget

References

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Alan Mislove Associate Professor College of Computer and Information Science Northeastern University 360 Huntington Avenue Boston, MA 02115, USA +1 617 373 7069 amislove@ccs.neu.edu

Peter Druschel Scientific Director Max Planck Institute for Software Systems Campus E1 4 66123 Saarbruecken, Germany +49 681 9303 9101 druschel@mpi-sws.org

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