

Sriram Chellappan

CONTACT INFORMATION	Department of Computer Science and Engineering University of South Florida 4202 E. Fowler Ave., ENB 317 Tampa, FL 33620,.	<i>Voice:</i> 614-260-5041. <i>Fax:</i> 813-974-5456 <i>E-mail:</i> shri@cse.usf.edu.
PRIMARY RESEARCH INTERESTS	Socio-Technical Systems with emphasis on Cyber Security and Smart Health	
SECONDARY RESEARCH INTERESTS	Mobile and Wireless Networking, Cyber-Physical Systems, Distributed and Cloud Computing	
PROFESSIONAL EXPERIENCE	<p>Associate Professor - Department of Computer Science and Engineering University of South Florida (Aug 2015 — Present).</p> <p>Associate Professor - Department of Computer Science Missouri University of Science and Technology (Sep 2014 — Jul 2014).</p> <p>Assistant Professor - Department of Computer Science Missouri University of Science and Technology (Jan 2008 — Aug 2014).</p> <p>Research/ Teaching Assistant The Ohio-State University (Jan 2001 — Dec 2007).</p>	
EDUCATION	<p>The Ohio-State University, Columbus, OH, U.S.A. Ph.D. in Computer Science and Engineering, Dec 2007 Dissertation: On Deployment and Security in Mobile Wireless Sensor Networks Advisor: Dr. Dong Xuan.</p> <p>The Ohio-State University, Columbus, OH, U.S.A. M.S. in Electrical Engineering, Dec 2002 Thesis: Application of Control Theoretic Tools to the Analysis and Design of Congestion Control Algorithms in Communication Networks Advisors: Dr. Hitay Ozbay and Dr. Arjan Durrezi.</p> <p>University of Madras, Chennai, India B.E. in Instrumentation and Controls Systems Engineering, Aug 1999.</p>	
AWARDS	National Science Foundation CAREER Award, 2013. Missouri S&T Faculty Excellence Award, 2014. Missouri S&T Outstanding Teaching Commendation Award, 2014. Missouri S&T Faculty Research Award, 2015.	
GRANTS SUMMARY	Total Federal Grants: \$2,335,638 ; My Share: \$1,042,480 . Total Internal Grants: \$80,048 ; My Share: \$80,048 .	
FEDERAL GRANTS	<p>PI (60%) - “I-Corps: Phone Call Passport: A Smartphone Application to Allow Free Phone Calls” - National Science Foundation - \$50,000 (Apr 2014 - Dec 2015).</p> <p>PI (100%) - “EAGER: Collaborative Research: A Multi-Disciplinary Framework for Modeling Spatial, Temporal and Social Dynamics of Cyber Criminals” - National Science Foundation - \$85,248 (Sep 2013 - Aug 2015).</p>	

PI (100%) - “CAREER: Human Behavior Assessment from Internet Usage: Foundations, Applications and Algorithms” - National Science Foundation - \$428,409 (Feb 2013 - Jan 2018).

Co-PI (10%) - “Common Correctness for Protecting Confidentiality Critical Infrastructure Systems” - National Security Agency - \$41,788 (Oct 2012 - Sep 2013).

PI (35%) - “A Heterogeneous Secure Networking Test-Bed to Counter Explosives” - Army Research Office - \$249,978 (Sep 2012 - Aug 2014).

Co-PI (10%) - “I/UCRC: Net-Centric Software Systems Center Site at Missouri University of Science and Technology” - National Science Foundation - \$300,000 (Sep 2012 - Aug 2017).

Co-PI (16%) - “A Doctoral Program in Security and Privacy in Mobile Social Network Space” - Department of Education - \$533,000 (Sep 2012 - Aug 2015).

PI (60%) - “II-New: Infrastructure to Support Integrated Research and Education in Socially Intelligent Computing at Missouri S&T” - National Science Foundation - \$281,680 (Jun 2012 - May 2016).

Co-PI (20%) - “Planning Grant: I/UCRC for Net-Centric Software Systems Center Site at Missouri University of Science and Technology” - National Science Foundation - \$13,000 (Feb 2012 - Jan 2014).

Co-PI (50%) - “Travel Grant for Attending 30th IEEE Symposium on Reliable Distributed Systems in Madrid Spain” - National Science Foundation - \$10,000 (Sep 2011 - Aug 2013).

Co-PI (10%) - “Agile Systems Engineering: Investigation and exploration of immersive training technologies” - DARPA - \$119,988 (Aug 2011 - Jun 2012).

Co-PI (50%) - “Resilient IED Detection Sensor Networks Against Location Disclosure Attacks” - Army Research Office - \$202,527 (Aug 2010 - Aug 2013).

Co-PI (10%) - “REU Site: Research and Training Experience for Undergraduates in the Area of Sensor Computing (International Component - Supplement to NSF REU Site)” - National Science Foundation - \$20,020 (Mar 2010 - Feb 2011).

INTERNAL
GRANTS

PI (100%) - “Developing Software for Assessing Adolescent Depression from Internet Usage” - UM Intellectual Property Fast Track II Initiative - \$19,600 (Jun 2013 - Jun 2014).

PI (100%) - “Techniques for Secure and Privacy Preserving VANETs” - Missouri Research Board - \$13,000 (Jun 2012 - Jun 2013).

PI (100%) - “Securing Wireless Sensor Networks against Mobility-Centric Attacks” - Missouri Research Board - \$24,000 (Jun 2009 - Jun 2010).

PI (100%) - “Malware Spread in Next Generation Vehicular Networks: Modeling, Detection & Defense” - Missouri S&T University Transportation Center - \$23,448 (Jun 2009 - Jun 2010).

BOOK
CHAPTERS

2. Sriram Chellappan and Neelanjana Dutta, “Mobility in Wireless Sensor Networks”, Chapters in Advances in Computers, edited by Ali Hurson and Atif Memon, Academic Press, 2013.

1. Dong Xuan, Sriram Chellappan and Xun Wang, “Resilience of Structured Peer-to-Peer Systems: Analysis and Enhancement”, in Handbook on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks, edited by Jie Wu, CRC press LLC, 2004.

REFEREED
JOURNAL/
MAGAZINE
PUBLICATIONS

17. Muhammad Al Mutaz, Levi Malott and Sriram Chellappan, “Detecting Sybil Attacks in Vehicular Networks”, in Springer Journal of Trust Management, Vol 1/4, May 2014.

16. Mark Snyder, **Sriram Chellappan** and Mayur Thakur, “Distributed Exploratory Coverage with Limited Mobility”, in International Journal of Space-Based and Situated Computing, Vol 4/2, pp 114-124, 2014.
15. Tamal Paul, Jonathan Kimball, Maciej Zawodniok, Thomas Roth, Bruce McMillin and **Sriram Chellappan**, “Unified Invariants for Cyber-Physical Switched System Stability”, in IEEE Trans. on Smart Grid, Vol 5/1, pp 112-120, January 2014.
14. Frances Montgomery, **Sriram Chellappan**, Raghavendra Kotikalapudi, Donald Wunsch and Karl Lutzen, “Monitoring Student Internet Patterns: Big Brother or Promoting Mental Health?”, Journal of Technology in Human Services, Vol. 31/1, pp 61-70, Spring 2013.
13. Raghavendra Kotikalapudi, **Sriram Chellappan**, Frances Montgomery, Donald Wunsch and Karl Lutzen, “Associating Depressive Symptoms in College Students with Internet Usage Using Real Internet Data”, IEEE Technology & Society Magazine, Vol. 31/4, pp 73-80, Winter 2012.
Press Release: The New York Times, TIME, Forbes, MSNBC, Times of India, The Hindu, ScienceDaily, Slashdot, IEEE News, ACM Tech News and many more.
12. Wenjun Gu, **Sriram Chellappan**, Xiaole Bai and Honggang Wang, “Scaling Laws of Random Key Pre-distribution Protocols in Wireless Sensor Networks”, in IEEE Trans. on Information Forensics and Security (TIFS), Vol 6/4, pp 1370-1381, Dec 2011.
11. Wenjun Gu, Neelanjana Dutta, **Sriram Chellappan** and Xiaole Bai, “Providing End-to-end Secure Communications in Wireless Sensor Networks”, IEEE Trans. on Network and Service Management (TNSM), Vol 8/3, pp 205-218, Sep 2011.
10. Changqing Xu, Xiaole Bai, Lei Ding, Jin Teng, **Sriram Chellappan** and Dong Xuan, “Directed-Coverage in Wireless Sensor Networks: Concept and Quality”, in Ad Hoc & Sensor Wireless Networks (AHSWN), Vol 11/3/4, pp 173-197, June 2011.
9. Wei Yu, **Sriram Chellappan**, Xun Wang and Dong Xuan, “Peer-to-Peer System-based Active Worm Attacks: Modeling, Analysis and Defense”, in Elsevier Journal of Computer communications (COMCOM), Vol 31/ 17, pp 4005-4017, Nov 2008.
8. Wenjun Gu, Xiaole Bai, **Sriram Chellappan** and Dong Xuan, “Network Decoupling: A Methodology for Secure Communications in Wireless Sensor Networks”, in IEEE Transactions on Parallel and Distributed Systems (TPDS), Vol. 18, No. 12, Dec. 2007, pp 1784 - 1796.
7. **Sriram Chellappan**, Wenjun Gu, Xiaole Bai, Dong Xuan, Bin Ma and Kaizhong Zhang “Deploying Wireless Sensor Networks under Limited Mobility Constraints”, in IEEE Transactions on Mobile Computing (TMC), Vol. 6, No. 10, Oct. 2007, pp 1142 - 1157.
6. **Sriram Chellappan**, Xiaole Bai, Bin Ma, Dong Xuan and Changqing Xu, “Mobility Limited Flip-based Sensor Networks Deployment”, in IEEE Transactions on Parallel and Distributed Systems (TPDS), Vol. 18, No. 2, Feb. 2007, pp 199 - 211.
5. Xun Wang, **Sriram Chellappan**, Philip Corey Boyer and Dong Xuan, “On the Effectiveness of Secure Overlay Forwarding Systems under Intelligent Distributed DoS Attacks”, in IEEE Transactions on Parallel and Distributed Systems (TPDS), Vol. 17, No. 7, June. 2006, pp. 619-632.
4. Arjan Durresi, Praveen Kandikuppa, Mukundan Sridharan, **Sriram Chellappan**, Leonard Barolli and Raj Jain, “LED: Load Early Detection: A Congestion Control Algorithm based on Router Traffic Load,” in Journal of Information Processing Society of Japan (IPSJ), Vol. 47, No. 2, Feb. 2006, pp. 94 - 107.
3. Xun Wang, Wenjun Gu, Kurt Schosek, **Sriram Chellappan** and Dong Xuan, “Sensor Network Configuration under Physical Attacks”, in International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Inderscience, Vol. 3619/2005, Jan. 2006, pp. 23-32.

2. Wei Yu, **Sriram Chellappan**, Dong Xuan and Wei Zhao, “Distributed Policy Processing in Active-Service based Infrastructures”, in International Journal of Communication Systems (IJCS), John Wiley and Sons, Vol. 19, Issue 7, May. 2005, pp. 727-750.

1. Wei Yu, **Sriram Chellappan** and Dong Xuan, “P2P/ Grid-based Overlay Architecture to Support VoIP Services in Large Scale IP Networks”, in Journal of Future Generation Computer Systems (FGCS), Elsevier, Vol. 21, No. 1, Jan. 2005.

39. Srinivas Thandu, Levi Malott, Pratoool Bharti and **Sriram Chellappan**, “On the Feasibility of Leveraging Smartphone Accelerometers to Detect Explosion Events”, to appear in Proc. of IEEE Intl. Conf. on Mobile Data Management (MDM), Pittsburgh, June 2015.

38. Levi Malott, Pratoool Bharti, Nicholas Hilbert, **Sriram Chellappan** and Ganesh Gopalakrishna, “Detecting Self-harming Activities with Wearable Devices”, to appear in Proc. of Workshop on Sensing Systems and Applications Using Wrist Worn Smart Devices (WristSense) in conjunction with IEEE Intl. Conf. on Pervasive Computing and Communications (PerCom), St. Louis, March 2015.

37. Ashish Choudhari, Harini Ramaprasad, **Sriram Chellappan**, Bruce McMillin, Jonathan Kimball and Maciej Zawodniok, “Adaptive Scheduling with Explicit Congestion Notification in a Cyber-Physical Smart Grid System”, in Proc. of Euromicro Conference series on Software Engineering and Advanced Applications (SEAA), Verona, Aug 2014.

36. Levi Malott and **Sriram Chellappan**, “Investigating the fractal nature of individual user NetFlow data”, in Proc. of Workshop on Hot Topics in Big data and Networking (Hot-Data), in conjunction with IEEE Intl. Conf. on Computer Communications and Networks (ICCCN), Shanghai, Aug 2014.

35. Jake Bielefeldt and **Sriram Chellappan**, “Sensor Authentication in Collaborating Sensor Networks”, in Proc. of IEEE IFIP Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net), Piran, June 2014.

34. Sai Preethi Vishwanathan, Levi Malott, **Sriram Chellappan** and P. Murali Doraiswamy, “An Empirical Study on Symptoms of Heavier Internet Usage among Young Adults”, to appear in Proc. of IEEE Intl. Conf. on Advanced Networks and Telecommunication Systems (ANTS), Chennai, Dec 2013.

Press Release: ScienceDaily, MedicalDaily and many more.

33. Levi Malott, Sai Preethi Vishwanathan and **Sriram Chellappan**, “Differences in Internet Usage Patterns with Stress and Anxiety among College Students”, to appear in Proc. of IEEE Intl. Conf. on e-Health Networking, Applications and Services (HealthCom), Lisbon, Oct 2013.

32. Mark Snyder, **Sriram Chellappan** and Mayur Thakur, “Exploratory Coverage in Limited Mobility Sensor Networks”, in Proc. of Intl. Conf. on Network Based Information Systems (NBIS), Gwangju, Sep 2013.

31. Muhammad Al Mutaz, Levi Malott and **Sriram Chellappan**, “Leveraging Platoon Dispersion for Sybil Detection in Vehicular Networks”, in Proc. of IEEE Intl. Conf. on Privacy, Security and Trust (PST), Tarragona, July 2013.

30. Neelanjana Dutta and **Sriram Chellappan**, “A Time-series Clustering Approach for Sybil Attack Detection in Vehicular Ad hoc Networks”, in Proc. of Intl. Conf. on Advances in Vehicular Systems, Technologies and Applications (Vehicular), Nice, July 2013.

29. Ashish Choudhuri, Harini Ramaprasad, Tamal Paul, Jonathan Kimball, Maciej Zawodniok, Bruce McMillin and **Sriram Chellappan**, “Stability of a Cyber-Physical Smart Grid System using Cooperating Invariants”, in Proc. of IEEE Intl. Computer Software & Applications Conf. (COMP-SAC), Kyoto, July 2013.

28. Vamsi Paruchuri, R.B. Lenin and **Sriram Chellappan**, “Arrival time based Traffic Signal Optimization for Intelligent Transportation Systems”, in Proc. of IEEE Advanced Information Networking and Applications Conf. (AINA), Barcelona, Mar 2013.
27. Gerry Howser, **Sriram Chellappan** and Vamsi Paruchuri, “Vehicle Path Verification using Wireless Sensor Networks”, in Proc. of International Workshop on Heterogeneous Wireless Networks (HWISE) in conjunction with IEEE Advanced Information Networking and Applications Conf. (AINA), Barcelona, Mar 2013.
26. Nayot Poolsappasit, Vimal Kumar, Sanjay Madria and **Sriram Chellappan**, “Challenges in Secure Sensor-Cloud Computing”, in 8th Workshop on Secure Data Management (SDM) in conjunction with 37th Intl. Conf. on Very Large Data Bases (VLDB), Seattle, Aug 2011.
25. Neelanjana Dutta, Raghavendra Kotikalapudi, Abhinav Saxena and **Sriram Chellappan**, “A Multi-tiered Architecture for Content Retrieval in Mobile Peer-to-Peer Networks”, Short Paper in 12th Intl. Conf. on Mobile Data Management (MDM), Lulea, June 2011.
24. Jason Barnes, Vamsi Paruchuri and **Sriram Chellappan**, “On Optimizing Traffic Signal Phase Ordering in Road Networks”, in Intl. Workshop on Issues in Computing over Emerging Mobile Networks in conjunction with Proc. of 29th IEEE Symposium on Reliable Distributed Systems (SRDS), Delhi, Nov. 2010.
23. Neelanjana Dutta, Abhinav Saxena and **Sriram Chellappan**, “Defending Wireless Sensor Networks Against Adversarial Localization”, accepted as Invited Paper in Intl. Workshop on Mobile P2P Data Management, Security and Trust (MP-DMST) in conjunction with Proc. of Intl. Conf. on Mobile Data Management (MDM), Kansas City, May 2010.
22. Xiaole Bai, Lei Ding, Jin Teng, **Sriram Chellappan**, Changqing Xu and Dong Xuan, “Directed Coverage in Wireless Sensor Networks: Concept and Quality”, in Proc. of IEEE Intl. Conf. on Mobile, Ad-hoc and Sensor Systems (MASS), Macau, Oct. 2009.
21. Mark Snyder, **Sriram Chellappan** and Vamsi Paruchuri, “Event Coverage in Sparse Mobile Sensor Networks”, in Proc. of Intl. Conf. on Network-Based Information Systems (NBIS), Indianapolis, Aug. 2009.
20. Pavan Roy Marupally, Vamsi Paruchuri, and **Sriram Chellappan**, “Privacy Preserving Portable Health Record (P3HR)”, in Proc. of Intl. Conf. on Network-Based Information Systems (NBIS), Indianapolis, Aug. 2009.
19. Cyriac Kandoth and **Sriram Chellappan**, “Angular Mobility Assisted Coverage in Directional Sensor Networks”, in Intl. Workshop on Emergent Mobile Networks, in Proc. of Intl. Conf. on Network-Based Information Systems (NBIS), Indianapolis, Aug. 2009.
18. Xiaole Bai, Wenjun Gu, **Sriram Chellappan**, Xun Wang, Dong Xuan and Bin Ma, “PAS: Predicate-based Authentication Services Against Powerful Passive Adversaries”, in Proc. of Annual Computer Security Applications Conf. (ACSAC), Anaheim, Dec. 2008.
17. Vamsi Paruchuri, Arjan Durresi and **Sriram Chellappan**, “TTL based Packet Marking for IP Traceback”, in Proc. of IEEE Global Communications Conference (Globecom), New Orleans, Dec. 2008.
16. **Sriram Chellappan**, Vamsi Paruchuri, Dylan McDonald and Arjan Durresi, “Localizing Sensor Networks in Un-Friendly Environments”, in Proc. of IEEE Military Communications Conference (MILCOM), San Diego, Nov. 2008.
15. Vamsi Paruchuri, Arjan Durresi and **Sriram Chellappan**, “Secure Communications over Hybrid Military Networks“ in Proc. of IEEE Military Communications Conference (MILCOM), San Diego, Nov. 2008.

14. Wenjun Gu, Xiaole Bai, **Sriram Chellappan** and Dong Xuan, “Network Decoupling for Secure Communications in Wireless Sensor Networks”, in Proc. of IEEE International Workshop on Quality of Service (IWQoS), June 2006.
13. Xun Wang, **Sriram Chellappan**, Wenjun Gu, Wei Yu and Dong Xuan, “Policy-driven Physical Attacks in Sensor Networks: Modeling and Measurement”, in Proc. of IEEE Wireless Communications and Networking Conference (WCNC), April 2006.
12. **Sriram Chellappan**, Xiaole Bai, Bin Ma and Dong Xuan, “Sensor Network Deployment using Flip-based Sensors”, in Proc. of IEEE Mobile Sensor and Ad-hoc and Sensor Systems (MASS), Nov. 2005.
11. Wenjun Gu, Xun Wang, **Sriram Chellappan**, Dong Xuan and Ten H. Lai, “Defending against Search-based Physical Attacks in Sensor Networks”, in Proc. of IEEE Mobile Sensor and Ad-hoc and Sensor Systems (MASS), Nov. 2005.
10. Wei Yu, **Sriram Chellappan**, Xun Wang and Dong Xuan, “On Defending Peer-to-Peer System-based Active Worm Attacks”, in Proc. of IEEE Global Telecommunications Conference (GLOBECOM), Nov. 2005.
9. Xun Wang, **Sriram Chellappan**, Wenjun Gu, Wei Yu and Dong Xuan, “Search-based Physical Attacks in Sensor Networks”, in Proc. of IEEE International Conference on Computer Communication and Networks (ICCCN), Oct. 2005.
8. Xun Wang, Wenjun Gu, Kurt Schosek, **Sriram Chellappan** and Dong Xuan, “Sensor Network Configuration under Physical Attacks”, in Proc. of IEEE International Conference on Computer Networks and Mobile Computing (ICCNMC), Aug. 2005.
7. Arjan Duresi, Mukundan Sridharan, **Sriram Chellappan**, Raj Jain, Hitai Ozbai and Leonard Barolli, “Control Theory Optimization of MECN in Satellite Networks”, in Proc. of IEEE International Conference on Distributed Computing Systems Workshops (ICDCS- MNSA), June 2005.
6. Wei Yu, Philip Coyer Boyer, **Sriram Chellappan** and Dong Xuan, “Peer-to-Peer System-based Active Worm Attacks: Modeling and Analysis”, in Proc. of IEEE International Conference on Communications (ICC), May 2005.
5. Xun Wang, Wenjun Gu, Kurt Schosek, **Sriram Chellappan** and Dong Xuan, “Lifetime Optimization of Sensor Networks under Physical Attacks”, in Proc. of IEEE International Conference on Communications (ICC), May 2005.
4. Dong Xuan, **Sriram Chellappan**, Xun Wang and Shengquan Wang, “Analyzing the Secure Overlay Services Architecture under Intelligent DDoS Attacks”, in Proc. of IEEE International Conference on Distributed Computing Systems (ICDCS), March 2004.
3. Dong Xuan, **Sriram Chellappan** and Muralidhar Krishnamoorthy, “RChord: An Enhanced Chord System Resilient to Routing Attacks”, in Proc. of IEEE International Conference on Computer Networks and Mobile Computing (ICCNMC), Oct 2003.
2. Arjan Duresi, Mukundan Sridharan, **Sriram Chellappan**, Hitay Ozbay, and Raj Jain, “Tuning RED in Satellite Networks Using Control Theory,” in Proc. of SPIE Internet Quality of Service, (ITCOMM), Sep 2003.
1. Pierre Quet, **Sriram Chellappan**, Arjan Duresi, Mukundan Sridharan, Hitay Ozbay and Raj Jain, “Guidelines for optimizing Multi-Level ECN, using fluid flow based TCP model“ in Proc. of SPIE Internet Quality of Service, (ITCOMM), July 2002.

INVITED TALKS

“Mining Digital Data for Smarter Mental HealthCare”

- The 2015 International Conference on Collaboration Technologies and Systems (CTS), Atlanta

(June 2015).

“Internet Forensics for Smarter Health and Cyber Security”

- Dept. of Computer Science and Engineering, University of North Texas, Denton (May 2014).

“Combating Cyber Crimes via Human Behavior Assessment”

- Interdisciplinary Conference on Cybercrime at Michigan State University, East Lansing (March 2014).

“What Secrets can the Internet Reveal About Your Health?”

- Duke University Center for Personalized and Precision Medicine, Durham (Feb 2014).

“Fingerprinting Human Behavior in Cyber Space”

- Los Alamos National Laboratory (Feb 2014).

“Experimental Studies on Associating Internet Usage with Mood Disorders”

- Dept. of Math., Stat. and Computer Science, Marquette University, Milwaukee (Nov 2013).

PATENTS FILED

◇ **Sriram Chellappan**, Levi Malott, Patrick Sullivan and Srinivas Thandu, “Systems and Methods for Emergency Situation Communications”, US Patent Application No. 14/697,954, Filed April 2015.

◇ Ganesh Gopalakrishna and **Sriram Chellappan**, “Systems and Methods for Diagnosis and Treatment of Psychiatric Disorders”, US Patent Application No. 13/974,274, Filed Aug 2013. Available on Google Play as **MoodTrek** App (Licensed by The Cerner Corp.)

TEACHING

CS 220: Theory of Computer Science (UG)

Topics: Regular Languages, Context Free Languages and Turing Machines.

Teaching Effectiveness for CS 220

Semester	Student Credit Hours	Teaching Evaluations (out of 4.0)
Fall 2011	133	2.96
Fall 2012	147	3.25
Fall 2013	126	3.35

CS 284: Introduction to Operating Systems (UG)

Topics: OS design principles, Unix, Concurrency, Memory Management, Scheduling, Realtime OS, Network Programming and OS Security

Teaching Effectiveness for CS 284

Semester	Student Credit Hours	Teaching Evaluations (out of 4.0)
Fall 2008	39	3.29
Fall 2009	78	2.61
Fall 2010	54	3.54
Spring 2011	156	2.43
Spring 2012	165	3.08
Spring 2013	186	2.95
Spring 2014	177	2.85

CS 468: Advanced Network Security (Grad)

Topics: Security, Privacy and Trust topics in Wireless and Wired Networks.

Teaching Effectiveness for CS 468

Semester	Student Credit Hours	Teaching Evaluations (out of 4.0)
Spring 2008	21	3.00
Spring 2009	24	3.50
Spring 2010	48	3.40
Spring 2011	42	3.69
Spring 2012	48 (on-campus) and 30 (distance)	3.42 (on-campus) and 3.38 (distance)
Spring 2013	51 (on-campus) and 15 (distance)	3.85 (on-campus) and 3.75 (distance)
Spring 2014	102 (on-campus) and 12 (distance)	3.48 (on-campus) and 3.50 (distance)

PROFESSIONAL
COMMITTEES

PhD Forum Chair: IEEE International Conference on Pervasive Computing and Communications (PerCom) 2015.

Finance Chair: IEEE International Symposium on Reliable Distributed Systems (SRDS) 2010, 2012.

Publicity Chair: IEEE International Symposium on Reliable Distributed Systems (SRDS) 2009, 2011.

Publicity Chair: IEEE International Conference on Mobile Data Management (MDM) 2015.

PhD Forum Chair: IEEE International Conference on Mobile Data Management (MDM) 2010.

TPC Member: INFOCOM 2015, ICC 2015, AINA 2015, SMARTCOMP 2014, MobiSPC 2014, MDM 2014, MSN 2014, MDM 2014, INFOCOM 2014, CCNC 2013, HuMoComp 2013, MDM 2013, AINA 2012, MSN 2011, MSN 2013, NBiS 2011, MASS 2011, MASS 2010, HWISE 2009.

NSF Panelist: Smart and Connected Health, Cyber-Physical Systems, Networking Technology and Systems, Human Centered-Computing, SBIR programs.

UNIVERSITY
COMMITTEES

Faculty Search Committee: Member of Best in Class (BIC) faculty hiring committee in the area of Smart Living, 2015.

Honorary Degree: Assist committee in evaluating candidates eligibility for receiving Honorary Degree from Missouri S&T - 2009, 2010, 2011.

Intellectual Property: Assist committee in resolving IP issues at Missouri S&T - 2012, 2013.

DEPARTMENTAL
COMMITTEES

Colloquia: I have personally invited 70 internationally reputed speakers from Academia, Industry and Government to give seminars in the Computer Science department at Missouri S&T, and have coordinated all their visits - 2008, 2009, 2010, 2011, 2012, 2013, 2014.

Graduate: Assist committee in resolving graduate studies issues in the Computer Science department at Missouri S&T - 2014.

Undergraduate: Assist committee in resolving undergraduate studies issues in the Computer Science department at Missouri S&T - 2012, 2013.

Awards: Assist committee in evaluating candidates eligibility for receiving awards from Missouri S&T and UM system - 2011, 2012, 2013.

Peer Teaching Evaluations: Assist committee in setting up procedures and assignments in performing peer teaching evaluations - 2011, 2012, 2013.

Faculty Search Committee: 2011, 2014.

PROFESSIONAL
MEMBERSHIP

IEEE Member.

GRADUATED
STUDENTS

Ms. Mark Snyder (PhD)

Dissertation Title: Foundations of Coverage in Autonomic Mobile Sensor Networks

Graduation Date: May 2014
Employment: Director of Technology at Expedia.

Ms. Neelanjana Dutta (PhD)

Dissertation Title: Location Based Services in Wireless Ad Hoc Networks
Graduation Date: Aug 2013
Employment: R&D Engineer at Jasper Wireless.

Mr. Jake Bielefeldt (MS)

Thesis Title: Sensor Authentication in Collaborating Sensor Networks
Graduation Date: Dec 2014
Employment: R&D Engineer at Sandia Natl. Labs.

Mr. Srinivas Thandu (MS)

Thesis Title: On Temporal and Frequency Responses of Smartphone Accelerometers for Explosives Detection
Graduation Date: Dec 2014
Employment: My PhD Student

Mr. Ashok Bolla (MS)

Thesis Title: Crime Pattern Detection Using Online Social Media
Graduation Date: Dec 2014.

Ms. Doyal Mukherjee (MS)

Thesis Title: Privacy Preservation Using Spherical Chord
Graduation Date: May 2014
Employment: Software Engineer at Cerner Corp.

Ms. Sai Preethi Vishwanathan (MS)

Thesis Title: An Empirical Study on Symptoms of Heavier Internet Usage Among Young Adults
Graduation Date: Aug 2014
Employment: Software Engineer at Cerner Corp.

Mr. Muhammad Al Mutaz (MS)

Thesis Title: Sybil Detection in Vehicular Networks
Graduation Date: May 2013.

Mr. Gerry Howser (MS)

Thesis Title: Vehicle Path Verification Using Wireless Sensor Networks
Graduation Date: May 2012
Employment: Visiting Assistant Professor at Kalamazoo College, Michigan.

Mr. Raghavendra Kotikalapudi (MS)

Thesis Title: A Framework For Transparent Depression Classification In College Settings Via Mining Internet Usage Patterns
Graduation Date: Dec 2011
Employment: Software Developer Engineer at Microsoft.

CURRENT PHD
STUDENTS

Mr. Pratoool Bharti

Dissertation Topic: Wearable Sensing and Computing for Smart-health

Mr. Levi Malott

Dissertation Topic: Security and Privacy issues in Smart Health

Mr. Srinivas Thandu

Dissertation Topic: Algorithms for Smart-phones based Participatory Sensing

Mr. Nicholas Hilbert

Dissertation Topic: Cyber Security and Forensics

CURRENT MS THESIS STUDENTS Mr. Isam Alobaidi and Mr. Anurag Panwar

UG RESEARCH ADVISEES Mr. Tim Karleskint, Mr. Andrew Trainor and Mr. Patrick Sullivan.

PHD DISSERTATION/ MS THESIS COMMITTEES **PhD Committee:** Mayank Raj (current), Francesco Restuccia (current), Brijesh Chejerla (current), Qiming Zhao (ECE, Current), Vivek Thotla (ECE, Current), Tamal Paul (ECE, Current), Vimal Kumar (2013), Ravi Arvapally (2013), Roy Cabannis (2013), Thoshitha Gamage (2011), Cyriac Kandoth (2010) and Julia Albath (2008)

MS Committee: Raghul Mukundan (2013), Lokesh Ravichandran (2013), Makarand Bhosle (2011), Arej Muhammed (2011), Lekshmi Chidambaram (2011), and Hemanth Meka (2011)

REFERENCES

Dr. Bharat Bhargava

Professor - Dept. of Computer Science, Purdue University
305 N. University Street, West Lafayette, IN 47907, USA.
Phone: 765-494-6013, Fax: 765-494-0739, Email: bbshail@purdue.edu.

Dr. Sanjay Madria

Professor - Dept. of Computer Science, Missouri University of Science and Technology
500 W. 15th Street, 325 CS Bldg, Rolla, MO 65409, USA.
Phone: 573-341-4856, Fax: 573-341-4501, Email: madrias@mst.edu.

Dr. Dong Xuan

Professor - Dept. of Computer Science and Engineering, The Ohio-State University
395 Drees Labs, 2015 Neil Avenue, Columbus, OH 43210, USA.
Phone: 614-292-2958, Fax: 614-292-2911, Email: xuan@cse.ohio-state.edu.