

Avinash Srinivasan, Ph.D.

Term Assistant Professor &
Program Manager- DoD DC3 EPA
Department of Computer Science
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RESEARCH INTERESTS

My primary research interest spans the following two broad areas-

Security

- Cyber Security and Critical Infrastructure Protection
- Information and Network Security
- Virtualization Security
- Security and Privacy in Multimedia, MANETs, and WSNs
- Password Hardening Techniques

Digital Forensics

- Network and Cyber Forensics
- File System Forensics
- Forensic Data Carving
- Cloud Computing and Distributed Digital Forensics
- Mobile and Embedded Device Forensics
- Anti-Forensics Techniques- Steganography & Information Hiding

EDUCATION

Ph.D. Computer Science

Jan 2004 - Aug 2008

Advisor: Dr. Jie Wu, IEEE Fellow

Department of Computer Science and Engineering
Florida Atlantic University
Boca Raton, FL.

M.S. Computer Science

Sep 2001 - Jun 2003

Seidenberg School of Computer Science and Information Systems
Pace University
White Plains, NY.

B.Engg.(with Honors) Industrial and Production Engg.

May 1995 - Aug 1999

The National Institute of Engineering
University of Mysore
Mysore, INDIA.

SUBJECT MATTER EXPERT (SME) POSITIONS

NIST Summer 2013 - Present
Digital Forensics & Cloud Computing SME

I am currently serving as a contributing member for the NIST “*Cloud Computing Forensic Science Working Group*”. The WG consists of a small number of SME working towards developing the digital forensics standards and requirements for the Cloud Computing environment.

Northrop Grumman Spring 2013 - Present
Ethical Hacking & Penetration Testing SME

I am currently serving as a SME tasked with the development of “*Ethical Hacking and Penetration Testing*” training for Northrop Grumman. I am the sole developer working on this entire project.

Prometric Summer 2013
Cyber Security SME

I was asked by Prometric, a global leader in Test Development and Delivery, to serve as a SME in developing a “*Cyber Security Certification Exam*”. I was instrumental for two phases of the exam development process- Test Specification Review and Test Item Review.

School of Management, George Mason University Spring 2013 - Present
Network Security SME

I am currently serving as a SME for the executive MBA program *Management of Secure Information Systems (MSIS)* by the School of Management at George Mason university. As a SME, my role was to develop an executive level “*Network Security*” course and teach it.

GRANTS

Total Pending Grants – \$1,550,000.00.

Agency: US Department of Homeland Security – DHS-S&T-LRBAA-12-07.

Title: CLONE - CLOud-based aNalysis FramEwork for Forensics-as-a-Service.

Collaboration: George Washington University

Role: PI, Amount:\$800,000.00.

Agency: US Department of Homeland Security – DHS-S&T-LRBAA-12-07.

Title: Accelerate Forensic Carving of Fragmented Video Files from Unallocated Space to assist Law Enforcement Community in Effective Evidence Extraction.

Collaboration: Florida Atlantic University

Role: PI, Amount:\$600,000.00.

Agency: Department of Defense (DoD) – SBIR/STTR AF13-AT08- Phase I.

Title: SAFE - Secure and Adaptive Framework for Efficient Cross-Domain Protocols.

Collaboration: VeeZoo Inc.

Role: Co-PI, Amount:\$150,000.00.

Total External Grants – \$551,336.00.

PI – U.S. Department of Education (\$95,000)-“Congressionally-directed grant awards- CFDA 84.116Z”, 6/2009 - 5/2011.

Co-PI – US Department of Homeland Security (\$256,336.00) – 2012 – ST – 104 – 000047, 09/20/2012-08/31/2017.

Co-PI – U.S. Department of Justice (\$200,000)- COPS Tech. Award Grant, 6/2009 - 6/2012.

Cumulative Internal Competitive Grants – \$58,056.42.
Bloomsburg University of Pennsylvania

Provost’s Faculty Professional Development Grant (\$4000) – Macintosh Forensics, 2011.
Research & Disciplinary Projects (\$6,875) – Trust-based Mobility in WSNs, 2011.
Reassigned Time for Research (\$9,300) – Seeking NSA Designation as CAEIAE, 2010.
Research & Disciplinary Projects (\$25,000) – Modeling & Analysis of Terrorist Nets., 2010.
Reassigned Time for Research (\$5,500) – Network Forensics, 2009.
Dean’s Research and Scholarship Fund (\$1,200), 2009.
Faculty Professional Development and Travel Grant (\$4097.42), 2008.
Faculty Professional Development and Travel Grant (\$2,084.40), 2008.

HONORS AND AWARDS

Graduate Fellowship for Academic Excellence, Fla. Atlantic Univ., 2006 - 2007.
Dr. Daniel B. & Aural B. Newell Doctoral Fellowship, Fla. Atlantic Univ., 2005 - 2006.
Outstanding Achievement Award for Academic Excellence, Pace University, May 2003.

REFEREED PUBLICATIONS (Total 31)

Journal Publications (J- Total 8)

- [J8-31] **A. Srinivasan**, S. Kolli, and J. Wu. “Steganographic Information Hiding that Exploits a Novel File System Vulnerability”. In *International Journal of Security and Networks (IJSN)*, Vol. 8, No. 2, 2013.
- [J7-30] F. Li, J.Wu, and **A. Srinivasan**. “Uncertainty Mitigation for Trustworthiness-Oriented Applications in Wireless Ad Hoc Networks”. In *IEICE Transactions on Information and Systems, International Journal- Special Section on Trust, Security and Privacy in Computing and Communication Systems*. Vol. E95 – D No.1 pp.12 – 19, 2012.
- [J6-29] **A. Srinivasan**. “SecLoc - Secure Localization in WSNs Using CDS”. In *International Journal of Security and Communication Networks*, Vol. 4, Issue 7, pages 763 - 770, 2011.
- [J5-28] **A. Srinivasan**, J. Wu, and J. Teitelbaum. “Distributed Reputation-based Secure Localization in Sensor Networks”. In *LNCS Transactions on Autonomic and Trusted Computing*, Springer, Vol. 1, Issue 1, 2011.
- [J4-27] **A. Srinivasan** , F. Li, and J. Wu. “Secure Reputation Monitoring System - A Novel Connected Dominating Set-based Framework for WSNs”. In *Special Issue on Trusted Computing and Communications, International Journal of Security and Communication Networks*, Vol. 4, Issue 1, pages 95108, 2011.
- [J3-26] **A. Srinivasan** and J. Wu. “Secure and Reliable Broadcasting in Wireless Sensor Networks using Multi-Parent Trees”. In *International Journal of Security and Communication Networks*, Vol. 2, Issue 3, pp. 239-253, 2009.
- [J2-25] **A. Srinivasan**, F. Li, J. Wu, and M. Li. “Secure Clique-based Group Key Assignment in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 4, pp. 226-239, 2008.

- [J1-24] F. Li, **A. Srinivasan**, and J. Wu. “PVFS: A Probabilistic Voting-based Filtering Scheme in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 3, pp. 173-182, 2008.

Book Chapters (BC- Total 3)

- [BC3-23] **A. Srinivasan**, J. Teitelbaum, H. Liang, J. Wu, and M. Cardei. “Reputation and Trust-based System for Ad-Hoc and Sensor Networks”. In *Algorithms and Protocols for Wireless Ad-Hoc and Sensor Networks*, A. Boukerche (ed.), Wiley & Sons, pp. 375-402, 2008-2009.
- [BC2-22] **A. Srinivasan** and J. Wu. “A Survey on Secure Localization in Wireless Sensor Networks”. In *Encyclopedia of Wireless and Mobile Communications*, B. Furht (ed.), CRC Press, Taylor and Francis Group. 2007.
- [BC1-21] F. Li , **A. Srinivasan**, and J. Wu. “Security Issues in Sensor Surveillance”. In *Handbook on Mobile Ad-Hoc and Pervasive Communications*, L. T. Yang and M. K. Denko (eds.), American Scientific Publishers, 2006.

Conference and Workshop Publications (C - Total 20)

- [C20-20] H. Kalva, A. Parikh and **A. Srinivasan**. “Accelerating Video Carving from Unallocated Space”. In *The Proceedings of SPIE 8665 - Media Watermarking, Security, and Forensics 2013*, 86650H, 3-7 Feb. 2013, Burlingame, CA, USA.
- [C19-19] **A. Srinivasan**, S. Thirthahalli, and A. Stavarou. “HIDEINSIDE - A Novel Randomized & Encrypted Antiforensic Information Hiding”. In *International Conference on Computing, Networking and Communications (ICNC)*, 28-31 Jan. 2013, San Diego, CA, USA.
- [C18-18] J. Medsger and **A. Srinivasan**. “ERASE- EntRopy-based SAnitization of SENSitive Data for Privacy Preservation”. In *The 7th International Conference for Internet Technology and Secured Transactions (ICITST)*, pages 427 - 432, 10 – 12 Dec. 2012, London.
Best Paper Award Winner.
- [C17-17] M. Alhousseini, **A. Srinivasan** and D. Wijesekera. “Forensics Filesystem with Cluster-Level Identifiers for Efficient Data Recovery”. In *The 7th International Conference for Internet Technology and Secured Transactions (ICITST)*, pages 411 – 415, 10 – 12 Dec. 2012, London.
- [C16-16] **A. Srinivasan** and J. Wu. “SafeCode - Safeguarding Security and Privacy of User Data on Stolen iOS Device”. In *The 4th International Symposium on Cyberspace Safety and Security (CSS)*, pages 11-20, 12-13 Dec. 2012, Melbourne, Australia.
- [C15-15] **A. Srinivasan** and L. Chenupatti. “Robust Authentication of Public Access Points Using Digital Certificates - A Novel Approach”. In *The 4th International Symposium on Cyberspace Safety and Security (CSS)*, pages 153-164, 12-13 Dec. 2012, Melbourne, Australia.
- [C14-14] J. Spaulding, A. Krauss and **A. Srinivasan**. “Exploring an Open WiFi Detection Vulnerability as a Malware Attack Vector on iOS Devices”. In *The 7th IEEE International Conference on Malicious and Unwanted Software (IEEE MALWARE)*, pages 87-93, 16-18 Oct. 2012, Fajardo, PR.
- [C13-13] **A. Srinivasan** and J. Wu. “Duplicate File Names- A Novel Steganographic Data Hiding Technique”. In *International Workshop on Identity - Security, Management and Applications (ID)*, pages 260-268, 22-24 July 2011, Kochi, India, .

- [C12-12] A. Telidevara, V. Chandrasekaran, **A. Srinivasan**, R. Mukkamala, and S. Gampa. “Similarity Coefficient Generator for Network Forensics”. In *IEEE International Workshop on Information Forensics and Security (WIFS)*, pages 1-6, 12-15 Dec. 2010, Seattle, WA, USA.
- [C11-11] K. Yadav and **A. Srinivasan**. “iTrust: An Integrated Trust Framework for Wireless Sensor Networks”. In *The 25th ACM Symposium on Applied Computing - Trust, Reputation, Evidence and other Collaboration Know-how - (SAC TRECK)*, 22-26 Mar. 2010, Sierre, Switzerland.
- [C10-10] **A. Srinivasan** and J. Wu. “A Novel Connected Dominating Set based Secure Localization Model for WSNs”. In *International Conference on Next Generation Wireless Systems (NGWS '09)*, 12-14 Oct. 2009, Melbourne, Australia.
- [C9-9] F. Li, **A. Srinivasan**, and J. Wu. “Thwarting Blackhole Attacks in Disruption-Tolerant Networks using Encounter Tickets”. In *IEEE 28th Conference on Computer Communications (INFOCOM)*, 20-25 Apr. 2009, Rio De Janeiro, Brazil.
- [C8-8] R. Thanawala, J.Wu, and **A. Srinivasan**. “Efficient Resource Discovery Technique in a Mobile Ad Hoc Network”. In *IEEE International Conference on Communications (ICC)*, 14-18 Jun. 2009, Dresden, Germany.
- [C7-7] **A. Srinivasan** and J. Wu. “TRACK: A Novel Connected Dominating Set based Sink Mobility Model for WSNs”. In *Proceedings of 17th IEEE International Conference on Computer Communications and Networks (ICCCN)*, pages 1-8, 3-7 Aug. 2008, St. Thomas, US Virgin Islands.
- [C6-6] **A. Srinivasan** and J. Wu. “A Novel CDS-based Reputation Monitoring System for WSNs”. In *IEEE International Conference on Distributed Computing Systems Workshops ICDCS (Wireless Security and Privacy-WiSP)*, pages 364-369, 17-20 Jun. 2008, Beijing.
- [C5-5] **A. Srinivasan** and J. Wu. “A Novel k -parent Flooding Tree for Secure and Reliable Broadcasting in Sensor Networks”. In *IEEE International Conference on Communications (ICC)*, pages 1497-1502, 24-28 Jun. 2007, Glasgow, Scotland.
- [C4-4] **A. Srinivasan**, F. Li, J. Wu, and M. Li “CAGE: Clique-based Assignment of Group Key”. In *International Conference on Communications and Networking in China, (CHINACOM)*, pages 197-201, 22-24 Aug. 2007, Shanghai, China.
- [C3-3] F. Li, **A. Srinivasan**, M. Lu, and J. Wu. “Uncertainty Mitigation for Utility-Oriented Routing in Wireless Ad-Hoc Networks”. In *IEEE Global Communication Conference (GLOBECOM)*, pages 427-431, 26-30 Nov. 2007, Washington, DC.
- [C2-2] **A. Srinivasan**, J. Teitelbaum, and J. Wu. “DRBTS: Distributed Reputation-based Beacon Trust System”. In *IEEE International Symposium on Dependable, Autonomic and Secure Computing (DASC)*, pages 277-283, 29 Sep. - 2 Oct. 2006, Indianapolis, IN, USA.
- [C1-1] **A. Srinivasan** and K. Govindarajan. “Biometrics in Information Security: Face Recognition”, *Information Security Demo*, Honorable Mention, Norwalk Comm. College, CT, 2003.

Manuscripts Under Review (Rew)

- [Rew-3] J. Medsger and **A. Srinivasan**. “*Information Theoretic Drive Sanitization Models for Security & Digital Forensics Applications.*”. Submitted to IEEE Transactions on Dependable and Secure Computing (IEEE TDSC).

[Rew-2] A. Nguyen, R. Tarlecki, and **A. Srinivasan**. “*STUMP: STalling Precomputed Parallel Offline Password Attacks Using Manipulations Prior to Hashing.*” Submitted to IEEE INFOCOM 2014.

[Rew-1] W. Zhu, L. Vizenor, and **A. Srinivasan**. “*Secure and Adaptive Framework for Efficient Cross-Domain Communication Protocols (SAFE).*” Submitted to IEEE INFOCOM 2014.

Work-in-Progress (WiP)

[WiP-5] D. Misra and **A. Srinivasan**. “A New Approach for Malware Characterization and Intrusion Detection Using Prefetch Files.”

[WiP-4] J. Medsger and **A. Srinivasan**. “Entropy-based Divide and Conquer Approach for Detecting Encrypted Volumes.”

[WiP-3] C. Brahms, S. Reimers, T. Valadez, and **A. Srinivasan**. “MMS-based Steganography on Android Devices Using Segmented and Distributed Multipart LSB Encoding.”

[WiP-2] J. Meyers and **A. Srinivasan**. “Highly Efficient Distributed Digital Forensics Using GPUs.”

[WiP-1] **A. Srinivasan** and R. Mukkamala. “Network Forensics Using Similarity Coefficients and Quotient Filters.”

SEMINAR and TUTORIAL

[2] **Digital Forensics- Research Areas and Opportunities.**

Department of Computer and Information Sciences, Temple University, April 1, 2011, USA.

[1] **Macintosh Forensics- What You Need to Know?**

In Intl. Conf. on Advances in Computing and Comm. (ACC), Jul. 22-24, 2011, Kochi, India.

INVITED TALKS & TECHNICAL PRESENTATIONS

[12] **HIDEINSIDE - A Novel Randomized & Encrypted Antiforensic Information Hiding-** ICNC, 28-31 Jan. 2013.

[11] **Macintosh Forensics** – George Mason University, June 2, 2011.

[10] **Wireless Sensor Networks and their Unique Security Requirements** – Champlain College- Feb. 2008; Bloomsburg Univ, Univ of West Georgia & SUNY Oneonta- Mar. 2008.

[9] **Steganography: A Unique Threat to Info. Security** – Mount Olive College- Feb. 2008; Mansfield University- Jan. 2008; Kutztown University- Nov. 2007; SUNY Albany- Nov. 2003.

[8] **Reputation and Trust: A New Paradigm in WSN Computing** – Penn State Great Valley & Southern Illinois Univ - Nov. 2007; Towson Univ. & Ashland Univ. - Dec. 2007.

[7] **Reputation-based System for Encouraging the Cooperation of Nodes in Mobile Ad-Hoc Networks** – IEEE International Conference on Communication, Glasgow 2007.

[6] **A Novel k -Parent Flooding Tree for Secure and Reliable Broadcasting in WSNs** IEEE International Conference on Communication, Glasgow 2007.

[5] **Reputation and Trust-based Systems for Mobile Ad-Hoc and Sensor Networks** Research Week 2007, Florida Atlantic University, Boca Raton, FL, USA.

[4] **DRBTS: Distributed Reputation-based Beacon Trust System** – IEEE Graduate Student Research Showcase, Fla Atlantic Univ, April 2006 & IEEE DASC 2006, USA.

[3] **Zero Knowledge Proofs** – SUNY Albany, Oct. 2003.

[2] **Page Rank Algorithm-Driving Force Behind Google's Search Engine** – SUNY Albany, Oct. 2003.

[1] **Biometrics in Information Security: Face Recognition** — Pace University, March 2003.

ACADEMIC EXPERIENCE

Term Assistant Professor **Jan 2012 - Present**
George Mason University, Fairfax, VA, USA

ISA562 Information Security Theory and Practice
ISA564 Security Laboratory
MSEC620 Network Security
ISA785 Research in Digital Forensics
INFS612 Principles and Practices of Network Communications
CS555 Computer Communications and Networking

Assistant Professor of Computer Forensics **Aug 2008 - Fall 2011**
Bloomsburg University, Pennsylvania, USA

56.117 Introduction to Computer Forensics
56.110 Introduction to Computer Science
56.217 Computer Forensics - File Systems 1
56.218 Computer Forensics - File Systems 2
53.101 Math Thinking
56.419 Macintosh OS X Forensics Examination - Independent Study
56.419 iOS Forensic Examination - Independent Study
56.419 Network Security and Forensics - Independent Study

Adjunct Instructor **Jan 2004 - Aug 2008**
Florida Atlantic University, Florida, USA

CDA4102 Structured Computer Architecture
COT4400 Design & Analysis of Algorithms
COP2220 Introduction to Programming in C - Laboratory
COTL3002 Foundations of Computer Science - C++ Lab
COT6930 Data Mining and Machine Learning (Guest lecture)
STA2023 Introductory Statistics - Laboratory
COT6930 Data Mining and Machine Learning (Guest lecture)

Teaching Assistant **Jan 2004 - Aug 2008**
Florida Atlantic University, Florida, USA

COP3530 Data Structure and Algorithm Analysis
COP2220 Introduction to Programming in C
COT6930 Data Mining and Machine Learning
STA2023 Introductory Statistics-Laboratory
COTL3002 Foundations of Computer Science - C++

Research Assistant**Jan 2004 - Aug 2008****Florida Atlantic University, Florida, USA**

Wireless and Sensor Network Laboratory (NSF grant CNS 0422762), Aug 2005 - Aug 2008.

Parallel and Distributed Computing Laboratory, Aug 2005 - Aug 2008.

Data Mining and Machine Learning Laboratory, Jan 2004 - Jul 2005.

Empirical Software Engineering Laboratory, Jan 2004 - Jul 2005.

PROFESSIONAL DIGITAL FORENSICS TRAINING - OFFERED

Pennsylvania State Law Enforcement Officers- *MACINTOSH Forensics - Part I*, Nov. 2, 2011.Pennsylvania State Law Enforcement Officers- *MACINTOSH Forensics - Part II*, Nov. 8, 2011.Pennsylvania State Law Enforcement Officers- *MACINTOSH Forensics - Part III*, Nov. 9, 2011.Pennsylvania State Law Enforcement Officers- *Network Forensics - Part I*, Nov. 4, 2011.Pennsylvania State Law Enforcement Officers- *Network Forensics - Part II*, Nov. 14, 2011.Pennsylvania State Law Enforcement Officers- *Network Forensics - Part III*, Nov. 16, 2011.

PROFESSIONAL DIGITAL FORENSICS TRAINING - ATTENDED

BlackBag Technologies- *MAC Forensics In-Depth Analysis*, Apr. 18-22, 2011, Reston, VA, USA.BlackBag Technologies- *MAC Forensics Preliminary Anal.*, Jan. 11-14, 2011, San Jose, CA, USA.SANS Cyber Defense Initiative- *Network Forensics*, Dec. 10-14, 2010, Washington, DC, USA .Guidance Software- *EnCase Examination of NTFS*, Nov. 9-12, 2010, Dulles, VA, USA.Guidance Software- *EnCase Advanced Computer Forensics*, May 11-14, 2010, Pasadena, CA, USA.Guidance Software- *EnCase Computer Forensics - II*, Oct. 7-10, 2009, Dulles, VA, USA.Guidance Software- *EnCase Computer Forensics - I*, Jul. 6-9, 2009, Dulles, VA, USA.Access Data- *Network Security Essentials*, Apr. 22-24, 2009, Dulles, VA, USA.Access Data- *Windows Forensics Registry*, May 14-16, 2009, New York City, NY, USA.Paraben- *P2 Commander Forensics and P2 Examiner*, Jan. 26 -29, 2009, Dulles, VA, USA.

PROFESSIONAL & SERVICE ACTIVITIES

Editorial Board**Associate Editor** *Security and Communication Networks- Wiley & Sons'*, Aug. 2009 - Present.**Guest Associate Editor** *IEICE Transactions on Information and Systems*, Aug. 2010 - Nov. 2011.**Review Panelist****US Department of Energy, Office of Science Graduate Fellowship Program** -Computer Science Panel, Jan 2010.**Proposal Review**Special Issue Proposal- *Security and Communication Networks-Wiley & Sons'* , Aug. 2007.**Program Vice Chair**

11th IEEE International Conference on Embedded and Ubiquitous Computing (EUC) 2013.

15th IEEE International Conference on High Performance Computing and Comm. (HPCC) 2013.

Workshop Co-Chair

11th IEEE International Conference on Embedded and Ubiquitous Computing (EUC), 2013.

International Workshop on Ubiquitous Reconfigurable Computing Platforms, 2009.

Demo/Posters Chair

IEEE International Conf. on Mobile Ad hoc and Sensor Systems - IEEE MASS 2013.

IEEE International Conf. on Computer Communications - IEEE INFOCOM 2011.

Session Chair

IEEE ICC- Computer and Communication Networks Security, June 24-28, 2007, Glasgow, Scotland.

Publicity Chair

ACM International Symposium on Mobile Ad Hoc Networking and Computing - MobiHoc 2014.

International Conference on Digital Forensics and Cyber Crime - ICDF2C 2011.

IEEE International Conference on Embedded Software and Systems, China, 2011.

International ICST e-Forensics 2010, Shanghai, China.

ACM Symposium on Applied Computing - Computer Forensics- Guest Publicity Co-Chair.

IEEE International Conference on Networking, Architecture, and Storage - NAS 2010, China.

The 17th annual IEEE International Conference on High Performance Computing - HiPC 2010.

The 16th annual IEEE International Conference on High Performance Computing - HiPC 2009.

International Conference on Next Generation Wireless Systems- NGWS 2009, Australia.

Coordinator- Student Research Symposium

IEEE International Conference on High Performance Computing- HiPC 2008, Bangalore, India.

Reviewer- Journals and Books

- 2013** IEEE Transactions on Information Forensics and Security (TIFS)
International Journal of Computational Science and Engineering (IJCSE)
- 2012** IEEE Transactions on Parallel and Distributed Computing (TPDC)
Elsevier Computer Networks (COMNET)
IET Information Security Journal
- 2010** Elsevier Ad Hoc Networks (ADHOC)
Elsevier Computer Networks (COMNET)
International Journal of Parallel, Emergent and Distributed Systems (IJPEDS)
International Journal of Ad Hoc and Sensor Wireless Networks (AHSWN)
- 2009** ACM/Springer Wireless Networks- WINET
Security and Communication Networks- SI on Trusted Comp. and Communication
EURASIP Journal on Wireless Communications and Networking
Elsevier Computer Networks (COMNET).
ACM/Springer Peer-to-Peer Networking and Applications (PPNA)
ACM/Springer Mobile Networks and Applications (MONET)
- 2008** International Journal of Pervasive Computing and Communications (IJPCC)
Elsevier Computer Networks (COMNET)
ACM/Springer Peer-to-Peer Networking and Applications (PPNA)
IEEE Transactions on Mobile Computing (TMC)
IEEE Transactions on Parallel and Distributed Systems (TPDS)
ACM/Springer Mobile Networks and Applications (MONET)
Wireless Communications and Mobile Computing (WCMC)
- 2007** IEEE Transactions on Wireless Communications (TWC)
ACM/Springer Peer-to-Peer Networking and Applications (PPNA)
ACM/Springer Mobile Networks and Applications (MONET)
International Journal of Internet Protocol Technology (IJIPT)
Journal of Computer Science and Technology (JCST)
- 2006** International Journal of Sensor Networks (IJSN)
Handbook on Mobile Ad-Hoc and Pervasive Communications
- 2005** Journal of Parallel and Distributed Computing (JPDC)

Technical Program Committee Member - Conference and Workshops

2014	IEEE INFOCOM
2013	ACM SAC, IEEE TrustCom, IEEE/IFIP EUC, IEEE HPCC, CSS.
2012	IEEE TrustCom, ACM Q2SWinet, IEEE ICC AHSN, 3PGCIC
2011	ICST ICDF2C, CMS, ACM SAC, IEEE ICC AHSN, IEEE ICC CISS
2010	ACM Q2SWinet, IEEE LCN, IEEE/IFIP TrustCom, CMC CNSS, ACM SAC TRECK, IFIP WG 11.9 ICDF, IEEE ICC AHSN, IEEE GlobeCom AHSN, IEEE NAS, BioAdcom
2009	ICIT Computer Security, IEEE WIDA, IWAP2PT, IEEE LCN, ACM Q2SWinet, NGWS, IEEE ICC AHSN, IEEE WPS 2009, CMC, P2PS
2008	IEEE WIDA, Innovations, ACM Q2SWinet, IEEE LCN, ACM SAC TRECK, IEEE ICC INS, FGCN, IS, CHINACOM NSS
2007	ACM DIAL M-POMC, ACM Q2SWinet, ACM IWCMC, IEEE LCN, IEEE/IFIP ICI, IEEE ICCCN DSS, CoNET, IFIP WSA, WCAN, IPC, IEEE NAS, FGCN

Departmental and University Committee Work

George Mason University - ISA Graduate admissions committee, Jan. 2012 - Present.
Bloomsburg University - Department representative to APSCUF Union, Jan. 2011 - Dec. 2011.
Bloomsburg University - Department representative to College, April. 2010 - Dec. 2011.
Bloomsburg University Computer Forensics Club - Faculty Advisor, Sep. 2009 - Dec. 2011.
Undergraduate Awards Committee member, Bloomsburg University, Spring 2009.
Computer Forensics Curriculum Committee, Bloomsburg University, Sep. 2008 - Dec. 2011.
ABET Accreditation- Computer Science and Engineering accreditation committee member, FAU, Fall 2007.

INDUSTRY EXPERIENCE

Research Intern Systems Architecture and Development Group Motorola Inc., Florida, USA	May 2006 - Aug 2008
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- MIDAS Project developing customizable UI for mobile device.
- SILVERSTONE Project developing application for Fourth Generation mobile devices.
- *Algorithm Optimization-* Worked closely with the development team in optimizing the algorithm and successfully cut down the task-processing/ display-rendering time.
- *Script Development-* Automated unit/system testing, build management and release.
- Gained hands on experience in using *ClearCase* - configuration management tool, *iRemotePlus*, *X-Flash*, *jLab*, and *jTag* with *TeraTermPro*.