Arjan Durresi

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Research Interests

Trustworthy Artificial Intelligence, AI Control, Artificial Conscience, AI Human Socialization, Trust Engineering, Cybersecurity, Networking, Quantum Computing

Teaching Interests

Trustworthy AI, AI Control, Systems Cybersecurity, Computer Networks, Cloud Computing, Quantum Computing

Professional Experience

Indiana University Purdue University Indianapolis, IN   August 2013 - Present
Professor at the Department of Computer and Information Science

Indiana University Purdue University Indianapolis, IN   August 2007 - August 2013
Associate Professor at the Department of Computer and Information Science

Louisiana State University, Baton Rouge, LA   July 2003 - July 2007
Assistant Professor at the Department of Computer Science

Ohio State University, Columbus, Ohio   1996 - 2003
Research Scientist at the Department of Computer Science and Engineering,
Adjunct Assistant Professor at the Department of Electrical and Computer Engineering.

Polytechnic University of Tirana, Tirana, Albania   1995-1996
Associate Professor, Chairman of Telecommunications Department,
Associate Dean of the Electrical Engineering Faculty.

Telesoft Inc., Rome, Italy   1991 - 1995
Senior System Designer at the R&D Department.

Polytechnic University of Tirana, Tirana, Albania   1986-1991
Research Scientist and Lecturer at the Department of Electronics.

EDUCATION

Ph.D., Computer Science, Tokyo Denki University, Tokyo, Japan   2006

Ph.D., Electronic-Telecommunication Engineering, Polytechnic University of Tirana   1993
Thesis: "Computer Aided Design of Communication Systems", GPA 4.0/4.0, Graduated summa cum laude.

Post-Graduate Degree, Italian Telecommunication Institute, La Sapienza University, Italy   1991
Diploma with Honors in Telecommunication, GPA 4.0/4.0, Graduated summa cum laude.

M.E., Electronic-Telecommunication Engineering, Polytechnic University of Tirana   1990
GPA 4.0/4.0, Graduated summa cum laude.

B.E., Electronic Engineering, Polytechnic University of Tirana,   1986
GPA 4.0/4.0, Graduated with Gold Medal.

RECOGNITIONS AND HONORS

- **Named among the top 2% of scientists on Stanford list 2021, and updated October 2022.**
- Co-Chair of the *First International Balkan Conference on Communications and Networking BalkanCom 2017*, held in Tirana, Albania, May 31-June 2, 2017
- Guest Editor for two Special Issues in the *IEEE Communication Magazine*. Special Issue on Future Internet Architectures: Design and Deployment Perspectives, to be published in July 2011. Special Issue on Networking Issues for Cloud Computing, published in September 2012. *IEEE Communication Magazine* is the most popular publication of IEEE; therefore, to be selected as its editor holds significant recognition from the corresponding research community.
- Indiana University Trustee Teaching Award, 2012
- Member of the Albanian National Academy of Sciences, December 2019.
- Fellow of the Center for Applied Cybersecurity Research, Indiana University at Bloomington, 2010-present
- Best Paper Award at the *IEEE International Conference on Digital Ecosystems and Technologies - DEST 2010*
- Organized at the IUPUI campus a major international networking conference - *Network Based Information Systems - NBiS 2009*, which brought over 100 well-known researchers at IUPUI.
- Best Paper Award at the *6th International Conference on Advances in Mobile Computing & Multimedia MoMM 2008*.
- Excellent Paper Award at the *11th IEEE International Conference on Parallel and Distributed Systems ICPADS 2005*.
- Three IEEE Certificates of Appreciation for Service in January 2007, April 2006, and July 2005.
- Highly Commended Paper Award at *18th IEEE International Conference on Advanced Information Networking and Application AINA 2004*.
- 2002 Lumley Research Award for outstanding research accomplishments, from the College of Engineering at The Ohio State University, April 2002.

- Best paper award at the 5th *World Multiconference on Systemics, Cybernetics and Informatics SCI'2001*, Orlando, Florida, July 22-25, 2001.
- Scholarship from Italian Telecommunication Institute, March - December 1991
- Graduated Golden Medal from Polytechnic University of Tirana.

Professional Memberships

Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), member of the Association For Computing Machinery (ACM) and The International Society for Optical Engineering (SPIE).

Research Grants

- PI, NSF-BSF: Trust Loops for Participatory Planning of Multi-Scale Adaptation Pathways in Drought-vulnerable Rural Communities, pending, Amount: $600,000, 2023–2025
- Co-PI, USDA: DSFAS: Trustworthy-AI Cyberinfrastructure for Integrating Variable Community Adaptation Behaviors in Adaptation Planning of Agriculture-Water Systems, pending, Amount: $600,000, My part $200,000, 2023–2025
- PI with Elisa Bertino, Purdue University: Resilient AI-based closed-loop Automation Security for 5G Multi-access Edge Computing Systems, $50,000, 2023-2025
- PI, Artificial Intelligence Institute IUPUI, Developing Metrics for Trustworthy AI for Recurrence Prediction in Ductal Carcinoma, Amount: $10,000, 2021–2022
- Co-PI, INFEWS/T2: *iFEWCoordNet - a secure decision support system for coordination of adaptation planning among FEW actors in the Pacific Northwest*, NSF-USDA, Amount: $1,600,000, My part $290,000, 2017–2021
- PI, National Science Foundation (NSF): *Secure Data Architecture: Collaborative Research: Assured Mission Delivery Network Framework for Secure Scientific Collaboration*, NSF ACI Div of Advanced Cyberinfrastructure, Amount: $140,000, 2016–2021
- PI, National Science Foundation (NSF): *An Application Delivery Platform for Mobile Apps on Global Clouds*, Amount is being negotiated, NSF Computer and Network Systems, Amount: $60,000, 2012–2015.
- PI, National Science Foundation (NSF): *Large-Scale Distributed Scientific Experiments on Shared Substrate*, Research Experiences for Undergraduates (REU), Amount: $16,000, NSF Computer and Network Systems, 2012–2013.
- PI, Microsoft Inc.: Selected to participate in the Microsoft Research Project Hawaii; support with Windows smartphones, Windows Azure cloud computing, Bing Maps, Windows Live ID and other resources for the new course *Advanced Mobile and Cloud Computing*, 2012.
- PI, RAPID: Using Lessons from the Disaster in Japan to Develop Communications for Emergency Situations, National Science Foundation (NSF), Amount $25,000, 2011-2013
- PI, PURDUE UNIVERSITY: *Secure & Economically Viable Support for Internet Mobility*, PRF Research Grants, Amount: $17,000, 2011–2012,
- PI, NSF, *Large-Scale Distributed Scientific Experiments on Shared Substrate*, Amount $100,000, 2010-2014.

- PI, Microsoft Research, Among the few selected in an international competition to be supported with hardware and software by Microsoft Project Hawaii; support with new Windows Mobile phones (15 items); free time and availability on Windows Azure cloud computing, Bing Maps, Windows Live ID, and other resources for the new course Advanced Mobile and Cloud Computing, 2011.

- PI, *Secure Communications among Cell Phones and Sensors for Medical Applications*, Center for Applied Cybersecurity Research - CACR, Amount $50,000, 2010-2011.

- PI, *Security and Mobility Architecture for the Next Generation Internet*, IUPUI IDF Award, Amount $15,000, 2009-2010.

- Co-PI, IUPUI: *Signature Center for Transportation Active Safety*, Amount $300,000, 2008-2011.

- Co-PI, IUPUI: *Signature Center for Bio-Computing*, Amount $285,000, 2007-09.

- PI, NSF, *Scalable Broadcast Protocols for Wireless Sensor Networks*, Amount $12,000, 2005-06.

- PI, *Heterogeneous Wireless Communications for Emergency Conditions*, LSU Summer Stipend Award, Amount $5,000, 2006.

- Co-PI, *Development of High-Performance Sensor Networking Infrastructure-Wireless Testbed and Curriculum Innovations*, Louisiana Board of Regents, Amount $90,000, 2006-2007.

- Key personnel, *Doctoral Research and Training in Information Networks for Monitoring, Assessment and Relief Activities for Natural and Man-Made Disasters*, United States Department of Education, Amount $126,675, 2006-2007

- PI, *QoS and Secure Routing Protocol in Heterogeneous Sensor and Actor Networks*, Louisiana Board of Regents, Ranked number one at the Research Competitiveness Subprogram Award, Amount $73,000, 2005-07.

- PI, *Hybrid Traceback against DDoS*, LSU Faculty Research Grant Award, Amount $10,000, 2004-05.

- PI, NSF, *Traffic Management in Disaster Conditions*, Amount $30,000, 2003-05.

- PI, NSF, *Traffic Management in IP Networks*, Amount $330,000, 2000-03.

- PI, *MPLS Performance Testing*, Spirent, Amount $10,000, 2002.

- PI, *Providing QoS in Next Generation Satellite Networks*, Collaborative Core Research Program 2000, Ohio Aerospace Institute, Amount $100,000, 2000-02.

- PI, *Measuring QoS Parameters in IP Networks*, ITEC-OHIO Targeted Research Grant, Department of Development, State of Ohio, $199,000, 2001-03.

- Co-PI with Huang Zheng (PI), *Video Transmission over Satellite Networks*, ITEC-OHIO Targeted Research Grant, Department of Development, State of Ohio, Amount $80,000, 2002-03.

PATENTS

Inventor with Betty Lise Anderson of "Method and apparatus for monitoring the quality of optical links," United States Patent: # 7,236,238; Issued on June 26, 2007.

Publications

Refereed (full article peer reviewed) Journal Publications

J101 Suleyman Uslu, Davinder Kaur, Samuel J. Rivera, Arjan Durresi, Meghna Babbar-Sebens, Jenna H. Tilt, "A Trustworthy Human-Machine Collective Decision-Making Framework for Resource Management in Food-Energy-Water Nexus: A Control-Theoretical Approach," Under review at *IEEE Transactions on Computational Social Systems*, February 2023

J100 Suleyman Uslu, Sudip Gautam, Davinder Kaur, Samuel J Rivera, Arjan Durresi and Meghna Babbar-Sebens, "Trustworthy Acceptance in Environmental Decision Making: The Impact of Replacing Groundwater with Columbia River," Under review at *Environmental Data Science*, Cambridge University Press, July 2022

J99 Suleyman Uslu, Davinder Kaur, Arjan Durresi, "Trustability for Resilient Internet of Things Services on 5G Multiple-access Edge Cloud Computing, Journal Sensors," *Sensors Journal*, December, 2022

J98 Davinder Kaur, Suleyman Uslu, Arjan Durresi, "A Geo-Location and Trust-Based Framework with Community Detection Algorithms to filter Attackers in 5G Social Networks," *Journal of Wireless Networks*, Springer, 20 October, 2022

J97 Davinder Kaur, Suleyman Uslu, Kaley J. Rittichier, Arjan Durresi, "Trustworthy Artificial Intelligence - A Review," *ACM Computing Surveys*, Volume 55, Issue 2, 2023, Pages 1–38

J96 Esmeralda Make Hysenbelliu, Arjan Durresi, "The Optimization of IPTV Service Through SDN In A MEC Architecture, Respective Simulations In OMNeT ++," *International Journal of Software Engineering (IJSE)*, Volume 9, Issue 3, 2021, Pages 63–77

J95 Suleyman Uslu, Davinder Kaur, Samuel J Rivera, Arjan Durresi, Meghna Babbar-Sebens, Jenna H Tilt, "A Trustworthy Human-Machine framework for collective decision making in FoodEnergyWater management: The role of trust sensitivity," *Knowledge-Based Systems*, Volume 213, 15 February 2021, Pages 106683

J94 Ping Zhang, Mimoza Durresi, Arjan Durresi, "Internet network location privacy protection with Multi-access Edge Computing," *Computing*, Volume 103, 3 November 2020, Pages 473–490

J93 Yefeng Ruan, Arjan Durresi, "A trust management framework for clouds," *Computer Communications*, Volume 144, 15 August 2019, Pages 124–131, ISSN 0140–3664

J92 Murat Karakus, Arjan Durresi, "An economic framework for analysis of network architectures: SDN and MPLS cases," *Journal of Network and Computer Applications*, Volume 136, 15 June 2019, Pages 132–146

J91 Ping Zhang, Mimoza Durresi, Arjan Durresi, " Multi-Access Edge Computing Aided Mobility for Privacy Protection in the Internet of Things," *Computing Journal*, https://doi.org/10.1007/s00607-018-0639-0, 2018, 14 pages

J90 Mimoza Durresi, Anisa Subashi, Arjan Durresi, Leonard Barolli, Kazunori Uchida "Secure Communication Architecture for Internet of Things Using Smartphones and Multi-access Edge Computing in Environment Monitoring," *Journal of Ambient Intelligence and Humanized Computing*, https://doi.org/10.1007/s12652-018-0759-6, 2018, 10 pages

J89 Murat Karakus, Arjan Durresi, "Economic Viability of Software Defined Networking (SDN)," *Computer Networks*, Volume 135, 22 April 2018, Pages 81–95

J88 Esmeralda Hysenbelliu, Arjan Durresi,"Evaluation of (CapEx/OpEx) Cost reduction of IPTV Service delivery using SDN Solution," *IOSR Journal of Computer Engineering*, Volume 20, Issue 5, September 2018, https://doi.org/10.9790/0661-2005014653

J87 Yefeng Ruan, Lina Alfantoukh, Arjan Durresi, "Using Twitter Trust Network for Stock Market Analysis," *Knowledge-Based Systems*, Volume 145, 2018, Pages 207–218, ISSN 0950-7051, https://doi.org/10.1016/j.knosys.2018.01.016.

J86 Ping Zhang, Mimoza Durresi, Arjan Durresi, "Enhanced Internet Mobility and Privacy Using Public Cloud," *Journal of Mobile Information Systems*, Volume 2017 (2017), Article ID 4725858, 11 pages

J85 Murat Karakus, Arjan Durresi, "Quality of Service (QoS) in Software Defined Networking (SDN): A Survey," *Journal of Network and Computer Applications*, Volume 80, 15 February 2017, Pages 200–218

J84 Yefeng Ruan, Ping Zhang, Lina Alfantoukh, Arjan Durresi, "Measurement Theory Based Trust Management Framework for Online Social Communities," *ACM Transactions on Internet Technology*, Volume 17 Issue 2, May 2017 Article No. 16

J83 Murat Karakus, Arjan Durresi, "A Survey: Control Plane Scalability Issues and Approaches in Software-Defined Networking, (SDN)," *Computer Networks*, Volume 112, 15 January 2017, Pages 279-293

J82 Yefeng Ruan, Arjan Durresi, "A survey of trust management systems for online social communitiesTrust modeling, trust inference, and attacks," Knowledge-Based Systems, Volume 106, 15 August 2016, Pages 150-163

J81 Shpetim Latifi, Betim Cico, Arjan Durresi, "Improving Traffic Control Using Software Defined Networking for Inter-Domain Routing," *Journal of Natural and Technical Sciences*, Vol. XXI, 2016, pp. 103–112, 12 / 2016. ISBN 2074-0867

J80 Harold Owens II, Arjan Durresi, "Video over software-defined networking (vsdn)," *Computer Networks,* Volume 92, Part 2, 9 December 2015, Pages 341-356

J79 Mimoza Durresi, Tamara Luarasi, Arjan Durresi, "Cloud Computing for Targeted Advertising," *Research and Applications in Economics,* Vol.2, 2014, pp. 21–25

J78 Ping Zhang, Arjan Durresi, "Policy-based mobility in heterogeneous networks." *Journal of Ambient Intelligence Humanized Computing* 4(3): 331–338 (2013)

J77 Amitabh Mishra, Raj Jain, Arjan Durresi, "Cloud Computing: Networking and Communications Challenges," *IEEE Communication Magazine*, September 2012.

J76 Tao Yang, Tetsuya Oda, Gjergji Mino, Leonard Barolli, Arjan Durresi, Fatos Xhafa,"Energy-saving in wireless sensor networks considering mobile sensor nodes, single and multi-events," Computer Systems Science and Engineering, Volume 27, Issue 5, 2012, pp. 317–326

J75 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "Network Trust Management in Emergency Situations," *Journal of Computer and System Sciences*, Vol. 77, No. 4, 2011, pp. 677–686.

J74 Tao Yang, Gjergji Mino, Leonard Barolli, Makoto Ikeda, Fatos Xhafa, Arjan Durresi, "Performance of Wireless Sensor Networks for Different Mobile Event Path Scenarios," *IJDST* 2(3): 49-63, 2011

J73 Vladi Kolici, Keita Matsuo, Leonard Barolli, Fatos Xhafa, Arjan Durresi, Rozeta Miho, "Application of a JXTA-overlay P2P system for end-device control and e-learning," *Multimedia Tools Appl.* 53(2): 371-389, 2011

J72 Raj Jain, Arjan Durresi, Subarthi Paul, "Future internet architectures: design and deployment perspectives," *IEEE Communication Magazine*, Vol. 49, No. 7, 2011, pp. 24 - 25

J71 Leonard Barolli, Makoto Ikeda, Fatos Xhafa, Arjan Durresi, "A Testbed for MANETs: Implementation, Experiences and Learned Lessons, *IEEE Systems Journal*, Vol. 4, No. 2, June 2010, pp. 243–252.

J70 Arjan Durresi, Leonard Barolli, Akio Koyama, Makoto Takizawa, "Ubiquitous QoS Communications using Scalable Satellite Networking," *International Journal of Pervasive Computing and Communications*, Vol. 6, No. 2, 2010, pp. 214–228.

J69 Arjan Durresi, Ping Zhang*, Mimoza Durresi, Leonard Barolli, "Architecture for Mobile Heterogeneous Multi Domain Networks," *Journal of Mobile Information Systems MIS*, Vol. 6, No. 1, 2010, pp. 49–63.

J68 Songnan Xi, Hsiao-Chun Wu, Tho Le-Ngoc, Arjan Durresi, "Fast channel estimation using Maximum-Length Shift-Register sequences," *International Journal of Wireless and Mobile Computing*, Vol. 4, No. 2, 2010, pp. 148-152.

J67 Gjergj Mino, Leonard Barolli, Fatos Xhafa, Arjan Durresi, Akio Koyama, "Performance evaluation of a fuzzy-based CAC scheme for wireless cellular networks: a case study considering priority of on-going connections," *International Journal of Business Intelligence and Data Mining*, Vol. 5, No. 3, 2010, pp. 269–284.

J66 Leonard Barolli, Tao Yang, Fatos Xhafa, Arjan Durresi, "Routing Efficiency In Wireless Sensor-Actor Networks Considering Semi-Automated Architecture," *Journal of Mobile Multimedia*, Vol. 6, No. 2, 2010, pp. 097–113.

J65 Tao Yang, Makoto Ikeda, Leonard Barolli, Fatos Xhafa, Arjan Durresi, "Performance Evaluation of Wireless Sensor Networks for Mobile Event and Mobile Sink," *Journal of Mobile Multimedia*, Vol. 6, No. 4, 2010, pp. 281-292.

J64 Arjan Durresi, Vamsi Paruchuri, Leonard Barolli, and Rajgopal Kannan "Anonymous communication protocol for sensor networks," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 3, No. 4, 2009, pp. 236–246.

J63 Leonard Barolli, Akio Koyama, Yoshitaka Honma, Arjan Durresi, Junpei Arai, "Performance Evaluation of selective-border-casting zone routing protocol for ad-hoc networks," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 3, No. 4, 2009, pp. 312–319.

J62 Tao Yang, Leonard Barolli, Makoto Ikeda, Giuseppe De Marco, and Arjan Durresi, "Performance Evaluation of a Wireless Sensor Network for Mobile and Stationary Event Cases Considering Routing Efficiency and Goodput Metrics", *Journal of Scalable Computing: Practice and Experience (SCPE)*, Vol. 10, No. 1, 2009, pp. 99–109.

J61 Arjan Durresi, Mimoza Durresi, Leonard Barolli, and Fatos Xhafa, "MPLS Traffic Engineering for Multimedia on Satellite Networks," *Journal of Mobile Multimedia JMM*, Vol. 5, No. 1, 2009, pp. 3–11.

J60 Gjergji Mino, Leonard Barolli, Fatos Xhafa, Arjan Durresi, Akio Koyama, "Implementation and performance evaluation of two fuzzy-based handover systems for wireless cellular networks," Mobile Information Systems, Vol. 5, No. 4, 2009, pp. 339–361.

J59 Makoto Ikeda, Leonard Barolli, Giuseppe De Marco, Tao Yang, Arjan Durresi, Fatos Xhafa, "Tools for performance assessment of OLSR protocol," *Mobile Information Systems*, Vol. 5, No. 2, 2009, pp. 165–176.

J58 Arjan Durresi, Vamsi Paruchuri and Leonard Barolli, "FAST: Fast Autonomous System Traceback," *Journal of Network and Computer Applications*, Vol. 32, No. 2, 2009, pp. 448–454.

J57 Arjan Durresi, Vamsi Paruchuri, Mimoza Durresi, Leonard Barolli, Makoto Takizawa, "A scalable anonymous protocol for heterogeneous wireless ad hoc networks," *Journal of Embedded Computing*, Vol. 3, No. 1, 2009, pp. 77–85.

J56 Arjan Durresi, Vamsi Paruchuri and Leonard Barolli, "Network Adaptive Layered Multicast for Heterogeneous Wireless," *Journal of Mobile Multimedia JMM*, Vol. 4, No. 1, 2008, pp. 071–082.

J55 Arjan Durresi, Vamsi Paruchuri, "Adaptive Backbone Protocol for Heterogeneous Wireless Networks," *Journal of Telecommunication Systems: Springer*, Vol. 38, No. 3-4, 2008, pp. 83–97.

J54 Arjan Durresi, "Routing of Real-time Traffic over a Multilayered Satellite Architecture," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 3, No. 1/2, 2008, pp. 22–34.

J53 Keita Matsuo, Leonard Barolli, Fatos Xhafa, Akio Koyama, Arjan Durresi, "Implementation of a JXTA-based P2P e-learning system and its performance evaluation," *International Journal of Web Information Systems,* Vol. 4, No. 3, pp. 352–371

J52 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "Secure Authentication in Heterogeneous Wireless Networks," *International Journal of Mobile Information Systems*, Vol. 4, No. 2, 2008, pp. 119–130.

J51 Arjan Durresi, Mimoza Durresi, Arben Merkoci, Leonard Barolli, "Networked Biomedical System for Ubiquitous Health Monitoring," *International Journal of Mobile Information Systems*, Vol. 4, No. 3, 2008, pp. 211–218.

J50 Leonard Barolli, Junpei Anno, Fatos Xhafa, Arjan Durresi, Akio Koyama, "A Context-Aware Fuzzy-Based Handover System for Wireless Cellular Network and its Performance Evaluation," *Journal of Mobile Multimedia JMM*, Vol.4 No.3/4 October 1, 2008, pp. 241–258.

J49 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "Priority Based Wireless Communications for Health Monitoring on Highways," *Journal of Interconnection Networks*, Vol. 9, No. 4, 2008, pp. 337–349.

J48 Junpei Anno, Leonard Barolli, Arjan Durresi, Fatos Xhafa, Akio Koyama, "Performance evaluation of two fuzzy-based cluster head selection systems for wireless sensor networks," *Journal of Mobile Information Systems*, Vol. 4, No. 4, 2008, pp. 2977–312.

J47 Keita Matsuo, Leonard Barolli, Fatos Xhafa, Akio Koyama, Arjan Durresi, "New Functions for Stimulating Learners Motivation in a Web-Based E-Learning System," *Journal of Distance Education Technologies*, Vol. 6, No. 4, October-December 2008, pp. 34–49.

J46 Kaoru Sugita, Noriki Uchida, Giuseppe De Marco, Leonard Barolli, Arjan Durresi, "Performance Evaluation of WWW Conference System for Supporting Remote Mental Health Care Education," *International Journal of Virtual Technology and Multimedia (IJVTM)*, Vol. 1, No. 1, 2008, pp. 75–93.

J45 Arjan Durresi, Mukundan Sridharan*, Raj Jain, "Adaptive Multi-level Explicit Congestion Notification," *International Journal of High-performance Computing and Networking (IJHPCN)*, Vol. 5, No. 1/2, October 2007, pp. 3–11.

J44 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "Secure Broadcast for Inter-Vehicle Communications," *International Journal of High-performance Computing and Networking (IJHPCN)*, Vol. 5, No. 1/2, October 2007, pp. 54–61.

J43 Arjan Durresi, Vamsi Paruchuri*, "Broadcast Protocol for Energy-Constrained Networks," *IEEE Transaction on Broadcasting*, Vol. 53, No. 1, 2007, pp. 112–119.

J42 Tao Yang, Leonard Barolli, Makoto Ikeda, Arjan Durresi, Fatos Xhafa, "Performance Evaluation Of Reactive And Proactive Protocols For Ad-Hoc Sensor Networks Using Different Radio Models," *Journal of Interconnection Networks (JOIN)*, Vol. 8, No. 4, December 2007, pp. 387–405.

J41 Fatos Xhafa, Leonard Barolli, Arjan Durresi, "An Experimental Study On Genetic Algorithms for Resource Allocation On Grid Systems," *Journal of Interconnection Networks (JOIN)*, Vol. 8, No. 4, December 2007, pp. 427–443.

J40 Arjan Durresi, Leonard Barolli, Raj Jain, Makoto Takizawa, "Congestion Control using Multilevel Explicit Congestion Notification," *Journal of Information Processing Society of Japan*, Vol. 48, No. 2, 2007, pp. 42–54.

J39 Akio Koyama, Junpei Arai, Leonard Barolli, Arjan Durresi, "EZRP: An Enhanced Zone-Based Routing Protocol for Ad-Hoc Networks," *Concurrency: Practice and Experience*, Wiley InterScience, Vol. 19, No. 8, 2007, pp. 1157–1170.

J38 R Kalindi, Rajgopal Kannan, S Sitharama Iyengar, Arjan Durresi, "Sub-grid based key vector assignment: A key pre-distribution scheme for distributed sensor networks," *International Journal of Pervasive Computing and Communications*, 2007, Vol. 2, Issue 1, pp. 35-45

J37 Fatos Xhafa, Leonard Barolli, Arjan Durresi, "Immediate Mode Scheduling in Grid Systems," *Journal of Web and Grid Services*, Vol. 3, No. 2, 2007, pp. 219-236.

J36 Fatos Xhafa, Leonard Barolli, Arjan Durresi, "Requirements for an Event-Based Simulation Package for Grid Systems," *Journal of Interconnection Networks (JOIN)*, Vol. 8, No. 2, 2007, pp. 163–178.

J35 Arjan Durresi, Vijay Bulusu*, Vamsi Paruchuri*, Leonard Barolli, "Secure Emergency Communication of Cellular Phones in Ad Hoc Mode," *Ad Hoc Networks Journal*, Vol. 5, No. 1, 2007, pp. 126–133.

J34 Arjan Durresi, "Anonymity in the Internet," *Cluster Computing: The Journal of Networks, Software Tools and Applications*, Springer, Vol. 10, No. 1, 2007, pp. 57–66.

J33 Fatos Xhafa, Leonard Barolli, Arjan Durresi, "Batch Mode Scheduling in Grid Systems," *International Journal of Web and Grid Services (IJWGS)*, Vol. 3, No. 1, 2007, pp. 19–37.

J32 Arjan Durresi, Vamsi Paruchuri*, Leonard Barolli, "Anonymous Routing for Mobile Wireless Ad Hoc Networks," *International Journal of Distributed Sensor Networks*, Vol. 3. No. 1, 2007, pp. 105–117.

J31 Leonard Barolli, Makoto Ikeda, Giuseppe De Marco, Arjan Durresi, Akio Koyama, Jiro Iwashige, "A Search Space Reduction Algorithm for Improving the Performance of a GA-based QoS Routing Method in Ad-Hoc Networks," *International Journal of Distributed Sensor Networks*, Vol. 3. No. 1, 2007, pp. 41–57.

J30 Leonard Barolli, Fatos Xhafa, Arjan Durresi, G. De Marco "M3PS: a JXTA-based Multiplatform P2P System and Its Web Application Tools," *International Journal of Web Information Systems (IJWIS)*, Vol. 2, No. 3/4, 2006, pp. 187–196.

J29 Arjan Durresi, Vamsi Paruchuri*, Mimoza Durresi, Leonard Barolli, "Clustering Protocol for Sensor Networks," *Journal of Interconnection Networks (JOIN)*, Vol. 7, No. 4, December 2006, pp. 423–436.

J28 Arjan Durresi, "QoS-Energy aware Broadcasting for Wireless Ad Hoc Networks," *Journal of Mobile Multimedia (JMM)*, Vol. 2, No. 4, 2006, pp. 344–358.

J27 Arjan Durresi, Mukundan Sridharan*, Sriram Chellappan*, Leonard Barolli, Raj Jain, "LED: Load Early Detection: A Congestion Control Algorithm based on Routers' Traffic Load," *Journal of Information Processing Society of Japan*, Vol. 47, No. 2, February 2006, pp. 94–107.

J26 Arjan Durresi, Vijay Bulusu*, Vamsi Paruchuri*, "A Secure Approach to Sensor Network Continuity for Multiple Deployments," *Computer Communications Journal*, Volume 29, Issues 13-14, August 2006, pp. 2458–2468.

J25 Mimoza Durresi, Vamsi Paruchuri*, Arjan Durresi, Leonard Barolli, "Scalable Traceback against Distributed Denial of Service," *International Journal of Web and Grid Services (IJWGS)*, Vol. 2, No. 2, 2006, pp. 221–233.

J24 Arjan Durresi, Vamsi Paruchuri*, Leonard Barolli, "Delay-Energy aware Routing Protocol for Heterogeneous Ad Hoc Networks," *Journal of Interconnection Networks (JOIN)*, Vol. 7, No. 1, March 2006, pp. 37–49.

J23 Hsiao-Chun Wu, Ji Chen, Arjan Durresi and Huaibei Zhou, "Automatic Geometry-driven OFDM Quality-ofservice Analysis for Indoor Environments," *Journal of Interconnection Networks (JOIN)*, Vol. 7, No. 1, March 2006, pp. 147–161.

J22 Leonard Barolli, Akio Koyama, Arjan Durresi, Giussepe De Marco, "A Web-based E-learning System for Increasing Study Efficiency by Stimulating Learner Volition," *Journal of Information Systems Frontiers*, Springer Publishers, Vol. 8, No. 4, September, 2006, pp. 297–306.

J21 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "Adaptive Intervehicle Communications," *International Journal of Wireless Information Networks*, Springer Science, doi: 10.1007/s10776-006-0030-5, Vol. 13, No. 2, April 2006, pp. 151–160.

J20 Makoto Ikeda, Leonard Barolli, Akio Koyama, Arjan Durresi, Giuseppe De Marco, Jiro Iwashige, "Performance Evaluation of an Intelligent CAC and Routing Framework for Multimedia Applications in Broadband Networks," *Journal of Computer and System Science*, Articles in Press, doi:10.1016/ j.jcss.2005.12.007, Vol. 72, Issue 7, November 2006, pp. 1183–1200.

J19 R. Kalidindi, S. Basavaraju, Lydia Ray, Rajgopal Kannan, Arjan Durresi, and S. S. Iyengar, "Sub-Grid Based Key Vector Assignment: A Key Pre-Distribution Scheme For Distributed Sensor Networks," *International Journal of Pervasive Computing and Communications* , Vol. 2, No. 1, March 2006, pp. 35–43.

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C46 Kaoru Sugita, Noriki Uchida, Akihiro Miyakawa, Giuseppe De Marco, Arjan Durresi, Leonard Barolli, "Performance Evaluation of WWW Conference System for Supporting Remote Mental Health Care Education," in *Proceedings of ICPADS-2005*, Fukuoka, Japan, July 20-22, 2005, pp. 271–277.

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C43 Arjan Durresi, Mimoza Durresi, Leonard Barolli, "LIVE: Load balanced Inter-VEhicle Routing Protocol," in *Proceedings of IEEE Electro/Information Technology Conference EIT-2005*, Lincoln, Nebraska, May 22-25, 2005, pp. M43 1–6.

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C11 Srinivasan Seetharaman, Arjan Durresi, Raj Jain, "Signalling Protocol for Lightpath Provisioning," in *Proceedings of IEEE LCN2001*, Tampa, FL, 14-16 November 2001, pp. 82–88.

C10 Arjan Durresi, Mukundan Sridharan, Chunlei Liu, Raj Jain, "Improving Congestion Control in Satellite Networks," in *Proceedings of SPIE conference Quality of Service over Next-Generation Data Networks (IT302)*, Denver, Colorado, August 19-24, 2001, pp. 293–303.

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C1 Arjan Durresi, "A Computer Aided Design System for Microwave circuits," in *Proceedings of IEEE Trans. of Black Sea Region Symposium on Applied Electromagnetism*, Metsovo, Greece, April 17-19, 1996, National Technical University of Athens Press, Athens 1996, MMWS4–MMWS5.

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TC28 Sastri Kota and Arjan Durresi, "MPLS on Satellite Networks", *ITU Contribution*, April 2003.

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TC21 Mukul Goyal, Arjan Durresi, Raj Jain, "Effect of Number of Drop Precedences in Assured Forwarding," *IETF Internet Draft*, July 1999.

TC20 Arjan Durresi, Raj Jain, Gojko Babic, "Frame Delay Through ATM Switches: MIMO Latency and its aggregation," *ANSI T1A1.3/99-019*, May 3, 1998.

TC19 Arjan Durresi, Raj Jain, Gojko Babic, "Aggregation of MIMO Latency," *ATM_Forum/99-0243*, April 1999.

TC18 Raj Jain, Arjan Durresi, Gojko Babic, "Throughput Fairness Index: An Explanation," *ATM_Forum/99-0045*, February 1999.

TC17 Gojko Babic, Raj Jain, Arjan Durresi, "Frame Delay Through ATM Switches: MIMO Latency," *ANSI T1A1.3/98-056*, November 2-4, 1998.

TC16 Arjan Durresi, Raj Jain, Gojko Babic, and Bruce Northcote, "Proposed modified text for Methodology for Implementing Scalable Test Configurations," *ATM_Forum/98-0410*, July 1998.

TC15 Arjan Durresi, Gojko Babic, Raj Jain, "Proposed text for Performance Testing Terminology," *ATM_Forum/98-0411*, July 1998.

TC14 Raj Jain, Gojko Babic, Arjan Durresi, "ATM Forum Performance Testing Specifications Baseline Text," *ATM Forum BTD-TEST-TM-PERF.00.05 (96-0810R8)*, February 1998.

TC13 Gojko Babic, Raj Jain, Arjan Durresi, Justin Dolske, "Modifications to the performance testing baseline text," *ATM Forum/97-1088*, December 1997.

TC12 Arjan Durresi, Raj Jain, Justin Dolske, Gojko Babic, "Modifications to Appendix B and Sections 3.1.7 and 3.2.7 of Performance Testing Baseline Text," *ATM Forum/97-1089*, December 1997.

TC11 Justin Dolske, Gojko Babic, Arjan Durresi, Raj Jain, "Testing Experiences and Modifications to Mean Frame Burst Size (MFBS) Section of Performance Testing Baseline Text," *ATM Forum/97-0833*, September 1997.

TC10 Gojko Babic, Raj Jain, Arjan Durresi, Justin Dolske, "Modifications to Appendix A of Performance Testing Baseline Text on MIMO Latency," *ATM Forum/97-0834*, September 1997.

TC9 Arjan Durresi, Raj Jain, Justin Dolske, Gojko Babic, "Proposed Appendix B of Performance Testing Baseline Text on Scalable Configurations," *ATM Forum/97-0835*, September 1997.

TC8 Gojko Babic, Arjan Durresi, Justin Dolske, Raj Jain, "Measurement Experiences with the Revised MIMO Latency Definition," *ATM Forum/97-0859*, September 1997.

TC7 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, "Modifications to the delay section of Performance Testing Baseline Text," *ATM Forum/97-0611*, July 1997.

TC6 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, "Revised MIMO Definition," *ATM Forum/97-0612*, July 1997.

TC5 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, "Modifications to sections 3.3, 3.4, 3.5 of Performance Testing Baseline," *ATM Forum/97-0613*, July 1997.

TC4 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, "Modifications to the throughput section of Performance Testing Baseline," *ATM Forum/97-0614*, July 1997.

TC3 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, Shabbir Shahpurwala, "Proposed modifications to Performance Testing Baseline: Throughput and Latency Metrics," *ATM Forum/97-0426*, April 1997.

TC2 Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske, Shabbir Shahpurwala, "ATM Switch Performance Testing Experiences," *ATM Forum/97-0178R1*, April 1997.

TC1 Gojko Babic, Arjan Durresi, Raj Jain, "ATM Switch Performance Testing Experiences," *ATM Forum/97-0178*, February 1997.

Media Interviews

MI2 Artificial Intelligence: Expert explains why training AI to be trustworthy is important, Associated Press video, The Times of India, February 15, 2023

MI1 Developing Trustworthy AI, Interview with WISH-TV, January 30, 2023

INVITED PRESENTATIONS

P48 "Trust Engineering from Developing Resilient Systems to Artificial Conscience," Zoom Seminar at CERIAS Purdue, Feb 22, 2023

P47 Keynote Speaker at The First International Conference on Information Technologies and Educational Engineering, "Trustworthy Artificial Intelligence," November 19, 2021

P46 Keynote Speaker at The 16th International Conference on Broadband and Wireless Computing, Communication and Applications, "Developing Trustworthy Artificial Intelligence," October 28, 2021

P45 Speaker at 3rd NOAA Workshop on Leveraging Artificial Intelligence in Environmental Sciences, "Trustworthy Acceptance of AI-based Collective Management of Food-Water-Energy Resources (Video min. 38)," September 13, 2021

P44 Keynote Speaker at The 23rd International Conference on Network-Based Information Systems NBiS2020 "Trustworthy Artificial Intelligence," August 31, 2020

P43 "Trustworthy Decision Making and Artificial Intelligence," Trusted CI Webinar, April 27, 2020

P42 "Using Trust to Filter out Noise in Data," Big Data Regional Innovation Hubs Workshop, NSF BDSpoke Initiative, Purdue WL, March 29, 2017

P41 "Hot Topics in Networking," International Conference on Computer Science, Durres, September 08, 2015

P40 "Trust Framework for Social Networks," CERIAS Symposium - Purdue University, West Lafayette, IN, April 3rd & 4th, 2012.

P39 "Integrated Health Coach System," *2012 IUPUI Research Day*, Indianapolis, IN, April 13, 2012

P38 "Using Lessons from the Disaster in Japan to Develop Communications for Emergency Situations," Invited Presentation at The 2010 Canterbury and 2011 Christchurch New Zealand Earthquakes and the 2011 Tohoku Japan Earthquake: Emerging Research Needs and Opportunities, NSF Workshop, DC, February 9 and 10, 2012.

P37 "Application Delivery Networking Platform for Multi-Cloud Environments," Invited Presentation at NSF US Ignite Workshop, Kansas City, November 3-4, 2011.

P36 "Secure and Economically Viable Internet Architecture," *2011 IUPUI Research Day*, Indianapolis, IN, April 8, 2011

P35 "Secure and Policy-based Mobility Support in Heterogeneous Networks," Poster at the *2010 ONR Naval Science and Technology Partnership Conference*, Crystal City - Arlington, Va, November 8-10, 2010

P34 "Architecture for the Future Internet," Poster at the *2010 IUPUI Research Day*, Indianapolis, IN, April 9, 2010.

P33 "Business Oriented Support for Internet Mobility," *The Midwest University - Industry Summit*, Purdue University, West Lafayette, IN, March 31, 2010.

P32 "Security for the Next Internet over Heterogeneous Environments," Invited Talk at the Center for Education and Research in Information Assurance and Security (CERIAS) - Purdue University, West Lafayette, IN, March 11, 2009.

P31 "Patterns in Internet Architecture," Invited Talk at the *International Conference on Network-Based Information Systems - NBiS 2008*, Turin, Italy, September 1-5, 2008.

P30 "Research on the Next Generation Internet," Invited Talk at Fukuoka Institute of Technology, Fukuoka, Japan, March 29, 2008.

P29 "Designing the Future Internet," Keynote Speaker at *The 21st IEEE International Conference on Advanced Information Networking and Applications (AINA-07),* Niagara Falls, Ontario, Canada, May 21 - 23, 2007.

P28 "Scalable and Secure Architectures for Heterogeneous Wireless Ad Hoc Networks," presented at the Department of Computer Science, Tokyo Denki University, Tokyo, Japan, May 29, 2006.

P27 "Architectures for Heterogeneous Wireless Sensor Networks," presented at the Department of Computer Science, Fordham University, New York, NY, April 28, 2005.

P26 " Quality of Service in Heterogeneous Wireless Sensor Networks," presented at the Panel on QoS in Sensor Networks - IEEE QSHINE 2004, Dallas, TX, October 20, 2004.

P25 "Research on Heterogeneous Wireless Sensor and Actor Networks," presented at the Broadband & Wireless Networking Lab in Georgia Institute of Technology, October 7, 2004.

P24 "Security for Sensor Wireless Networks," presented at Polytechnic University of Tirana, Albania, May 14, 2004.

P23 "Wireless networking: Interoperability and security challenges," Organizer and Moderator of the Panel on Wireless Networking at *23rd IEEE International Performance Computing and Communications Conference - IPCCC 2004*, Pheonix, AZ, April 16, 2004

P22 "Research in Emerging Areas of Networking," presented at Fukuoka Institute of Technology, Fukuoka, Japan, March 27, 2004.

P21 "Research in Emerging Areas of Networking," Yamacraw Distinguished Speaker at Georgia Southern University, Statesboro, GA, December 5, 2003.

P20 "Enhanced Traffic Management in IP Networks", presented at 2003 NSF ANIR Principal Investigator Meeting, January 9-10, 2003, Reston, Virginia.

P19 "Measuring QoS Parameters in IP Networks and Video over Satellite Networks," presentation of two TAF Project Results, Columbus, Ohio, June 28, 2002.

P18 "Computer Networking: Trends and our Research at Netlab in OSU," presented at Lucent, Columbus, Ohio, June 19, 2002.

P17 "Traffic Management on Next Generation Satellite Networks with On-Board Processing," presented in the OAI forum: *Collaborations 2002*, April 16, 2002, Cleveland, Ohio.

P16 "QoS Parameters in IP Networks," presented at ITEC-Ohio, March 21, 2002.

P15 "Measuring QoS Parameters in IP Networks," presented in the Conference *Windows on the Future*, November 29-30, 2001, Columbus, Ohio.

P14 "Research in Networking at NetLab," presented in the CIS Department, OSU, November 27, 2001, Columbus, Ohio.

P13 "Operating Support Systems in Optical Networks," invited panelist in *IEEE ICCCN 2001*, October 14-19, Phoenix, Arizona.

P12 "Research in Emerging Networking Technologies at NetLab," presented in the Conference *Windows on the Future*, March 29-30, 2001, Columbus, Ohio.

P11 "Advanced Research Projects in Networking," presented at Polytechnic University of Tirana, March 20, 2001.

P10 "Hot Topics Networking Research in NetLab," presented at ITEC-Ohio, January 22, 2001.

P9 "QoS for Real Time Applications over Next Generation Data Networks," presented at NASA LRC Cleveland, December 8, 2000.

P8 "QoS in IP over Satellite Networks," presented at the meeting among TRW, OAI, Honeywell, and CIS Department, Columbus, Ohio, November 15, 2000.

P7 "Wireless LAN Architectures," presented at CIS and EE Departments, OSU, Columbus, Ohio, May 11, 2000.

P6 "Network Calculus and Applications," presented at CIS Department, OSU, Columbus, Ohio, March 12, 2000.

P5 "Transmission of High-Quality Multicast Video," presented at CIS and EE Departments, OSU, Columbus, Ohio, June 14, 1999.

P4 "Wireless Mobile Telephony", presented at CIS and EE Departments, OSU, Columbus, Ohio, March 15, 1999.

P3 "Streaming Video," presented at CIS and EE Departments, OSU, Columbus, Ohio, February 25, 1999.

P2 "Scalable Transmission of Multicast Video", presented at CIS and EE Departments, OSU, Columbus, Ohio, September 14, 1998.

P1 "Multimedia Over the Internet", presented at CIS and EE Departments, OSU, Columbus, Ohio, February 23, 1998.

Teaching Experience

At Indiana University Purdue University Indianapolis

- Proposed and designed CSCI 59000/49000 "Quantum Computing," graduate/undergraduate level, offered in Spring and Fall of 2022.

- Proposed and designed CSCI 57500 "Computer Systems Security," graduate level, offered in Fall 2019–2022.

- Proposed and designed CSCI 57200 "Cloud Computer Systems," graduate level, offered in Fall 2019–2022.

- Proposed and designed CSCI 59000 "Security Engineering," graduate level, offered in Fall 2015–2018.

- Proposed and designed CSCI 59000 "Advanced Mobility and Cloud Computing," graduate level, offered in partnership with Microsoft Research, Spring 2011 – 2018.

- CSCI 53600: "Data Communication and Computer Networks," graduate level, taught in Fall 2007, Fall 2009, Fall 2011, Fall 2013, Fall 2014, Fall 2016, Fall 2018, Fall 2020, and Fall 2022.

- CSCI 43600: "Principles of Computer Networking," undergraduate level taught in Fall 2008, Fall 2010, Fall 2012, Fall 2013, Fall 2013, Fall 2015, Fall 2017, Fall 2019, and Fall 2021.

- CSCI 43200: "Security in Computing," undergraduate, taught on Spring 2011, Spring 20112, Spring 2013.

- Proposed and designed CSCI 49000: "Concepts of the Next Internet," undergraduate level, 2010.

- Proposed and designed CSCI 59000: "Advanced Network Architectures," graduate-level taught in Spring 2008, 2009, 2010.

- CSCI 50300: "Operating Systems for Distributed System," graduate level taught in Spring 2008, 2009.

At Louisiana State University

- Proposed and designed CSC 7702: "Telecommunications Networks," graduate-level taught in the Spring of 2004 and Fall of 2006.
- Proposed and designed CSC 7602: "Wireless Networks," graduate level taught in the Fall of 2005.
- Designed CSC 3501: "Computer Organization and Design," undergraduate Level taught in Fall 2005.
- Designed CSC 7080: "Computer Architecture," graduate level, taught on Spring 2005, 2006.
- Proposed and designed CSC 7502: "Advanced Computer and Network Security," graduate level, taught in Fall 2004.
- Proposed and designed CSC4601: "Computer and Network Security," undergraduate/graduate level taught in Fall 2003, and 2004.

At Ohio State University

- Designed CIS777: "Telecommunications Networks," graduate level.
- "Computer Networks," (CIS677), undergraduate/graduate course.
- "Internetworking," (CIS678), undergraduate/graduate course.
- Developed a Package of Nine Simulation Networking Laboratories. The project was funded by NSF. The labs are an essential part of networking courses at OSU and LSU, and have been used successfully by thousands of students at OSU and at other universities and institutions around the world (in more than 120 universities and institutions).

At Polytechnic University of Tirana

"Telecommunications Networks," "Computer Networks," "Communication Systems," "Computer Systems in Telecommunications," "Computer-Aided Design for Communication systems," "Computer Architecture," and "Circuit Design."

Between 1990-1997, Advisor for eleven master's degree theses in the field of computer and telecommunication networks and communications.

Graduate Students at PUWL, IUPUI, LSU, OSU, and LSU

Suleyman Uslu is working on his Ph.D. thesis in the area of Trustworthy Decision Making (IUPUI).

Davinder Kaur working on her Ph.D. thesis in the area of Trustworthy Artificial Intelligence in Medical Diagnosis (IUPUI).

Lina Alfantoukh graduated in the Spring of 2019 (IUPUI). Ph.D. degree, Thesis: Multi-Stakeholder Consensus Decision-Making Framework Based On Trust And Risk.

Yefeng Ruan graduated in the Spring of 2018 (PUWL). Ph.D. degree, Thesis: A Trust Management Framework For Decision Support Systems

Ping Zhang graduated in the Fall of 2018 (IUPUI). Ph.D. degree, Thesis: Mobility And Privacy Enhancement For Mobile Internet.

Harold Owens II graduated in the Fall of 2016 (IUPUI). Ph.D. degree, Thesis: Provisioning End-To-End Quality Of Service For Real-Time Interactive Video Over Software-Defined Networking

Aber Kalash graduated in the Fall of 2014 (IUPUI). M.S. degree, Thesis: Trust Modelling Through Social Sciences

Pawat Chomphoosang graduated in the Fall of 2012 (IUPUI). M.S. degree, Thesis: Trust Management of Social Network in Health Care

Birhan Payli graduated in the Summer of 2010 (IUPUI). M.S. degree, Thesis: QoS Communications in Health Care Applications.

Vamsi K. Paruchuri graduated in the Summer 2006 (LSU). Ph.D. degree, Thesis: Adaptive and Scalable Protocols for Heterogeneous Wireless Networks. Professor of Computer Science at the University of Central Arkansas.

Vijay Bulusu graduated in the Summer of 2006 (LSU), M.S. degree, Thesis: Security in Heterogeneous Wireless Networks. Employed at Juniper Networks.

Nanduri Kishori graduated in the Spring of 2005 (LSU). M.S. degree, Thesis: Scalable Traceback against Distributed Denial of Service. Employed at Shipcom Wireless.

Vatsalya Kunchakarra graduated in the Summer of 2005 (LSU). M.S. degree, Thesis: Simulation Study of Routing in Sensor Networks.

Lyn Evans graduated in the Fall of 2005 (LSU). M.S. degree, Thesis: Authentication in 3G-WLAN Networks.

Durga S. Dash graduated in the Summer of 2003 (OSU). M.S. degree, Thesis: QoS in Satellite Networking. Employed at Microsoft.

Vamsi K. Paruchuri graduated in the Summer of 2003 (OSU). M.S. degree, Thesis: Routing in Ad-hoc networks.

Jyothi Sri graduated in the Winter of 2003 (OSU). M. S. degree, Thesis area: Routing in optical networks. Employed at IBM.

Mukundan Sridharan, graduated in Winter 2003 (OSU). M. S. degree, Thesis: Enhanced ECN-based congestion control.

Sriram Chellappan graduated in the Autumn of 2002 (OSU). M.S. degree, Thesis: Congestion Control in IP Networks. Professor at the University of South Florida (USF) in Tampa, Florida.

Shantanu Bhardwaj graduated in the Summer of 2002 (OSU). M.S. degree, Thesis area: Video Networking.

Prasanna Jaganathan graduated in the Autumn 2001 (OSU). M. S. Thesis: Proportional Allocation of Bandwidth. Employed at Citrix.

Research adviser for 10-15 graduate students each semester

Master thesis and examination committee member: 19

Ph.D. thesis and examination committee member: 10

PROFESSIONAL SERVICES

Editorial Service

Editorial Board member of the Internet of Things; Engineering Cyber Physical Human Systems (Elsevier) 2018 - present

Associate Editor of the International Journal of Virtual Technology and Multimedia (IJVTM), Published by Inderscience Publishers, ISSN (Online): 1741-1882 - ISSN (Print): 1741-1874 (March 2010 - present).

Editorial Board member of the Journal of Ubiquitous Computing and Intelligence - JUCI (American Scientific Publishers - ASP)

He has been:

Area Editor of the *Ad Hoc Networks Journal*, Published by Elsevier, ISSN: 1570-8705.

Editorial Board Member of the *Journal of Network and Computer Applications*, Published by Elsevier.

Editorial Board Member of the *Journal of Ubiquitous Computing and Intelligence - JUCI*, Published by American Scientific Publishers.

Area Editor of ICST Transactions on Networks and Communications.

Guest Editor of the IEEE Communications Magazine, Special Issue: Cloud Computing: Networking and Communications Challenges; Manuscript Deadline: January 1, 2012; Publication date: September 2012.

Guest Editor of the IEEE Communications Magazine, Special Issue: Future Internet Architectures: Design and Deployment Perspectives; Extended Submission Deadline: December 15, 2010; Publication date: July 2011.

Guest Editor, Journal of *Mobile Information Systems*, Special Issue: "Advances in wireless networks," Vol. 5, No. 1, 2009.

Guest Editor, Journal of *Mobile Information Systems*, Special Issue: "Advances in mobile communications and computing," Vol. 5, No. 2, 2009.

Guest Editor, *Journal of Telecommunication Systems (Springer)*, Call for Papers - Special Issue: Advances in Modelling and Evaluation of Communication Systems. Submission deadline: August 1, 2007.

Guest Editor for the *International Journal of Distributed Sensor Network, Special Issue on Wireless Sensor Networks,* Special Issue: Heterogeneous Wireless Networks. Submission deadline: September 20, 2006

Guest Editor for the *International Journal of Wireless and Mobile Computing - IJWMC,* Special Issue: "Wireless Sensors and Ad Hoc Networks." Submission deadline: May 25, 2005

Guest Editor for the *Journal of Interconnection Networks - JOIN,* Special Issue: "Heterogeneous Wireless Networks." Submission deadline: August 15, 2005

Guest Editor for the *International Journal of Distributed Sensor Network,* Special Issue: Heterogeneous Wireless Ad Hoc Networks. Submission deadline: August 15, 2005

Reviews

Served in several NSF review panels per year since 2003.

Reviewed research papers for the following international journals and conferences (partial list):

- IEEE/ACM Transaction on Networking, IEEE Transaction on Computers, IEEE Journal on Selected Areas of Communications, Journal of Computer Networks, Journal of Computer Communications, Journal of Information Processing Society of Japan (JPSJ).
- IEEE INFOCOM 2005, 2004, 2001. IEEE Globecomm 2000-2018. IEEE International Conference on Communications, 2007-2018, IEEE WCNC 2005, AINA 2005, 2004, BroadNets 2004, ICON 2004. SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2003, 2002). IEEE International Conference on Computer Communication and Networks 2001, 2000, 1999. IEEE International Conference On Networks 2000. IEEE IPOM 2000.
- Journal of Technical Sciences, Published by Polytechnic University of Tirana.

Reviewed books:

- Understanding the Future of IP and Optical Internetworking", Addison Wesley Longman Inc., 2001, TCP/IP Socket Programming", Morgan Kaufmann Publishers, 2000, Telecommunications" Published by SHBLU, Tirana, 1995.

Organization of Conferences

- Co-Chair of the *First International Balkan Conference on Communications and Networking BalkanCom 2017*, Tirana, Albania, May 31-June 2, 2017
- Program Vice Chair for Security and Trustworthy Computing of *The 17th IEEE International Conference on Parallel and Distributed Systems ICPADS 2011*, Tainan, Taiwan, December 7 - 9, 2011
- Founder of *The Second International Workshop on Trustworthy Computing TwC*, and Co-Chair 2011-19
- Chair of the *The 13th International Conference on Network-Based Information Systems NBiS 2010*, Takayama, Gifu, Japan September 14 - 16, 2010.
- PC Chair of the *The 12th International Conference on Network-Based Information Systems NBiS 2009*, Indianapolis, US, August 19-21, 2009.
- Chair of the *The 23rd IEEE International Conference on Advanced Information Networking and Applications AINA 2009*, Bradford, UK, May 26-29, 2009.
- PC Chair of the *The Fourth International Conference on Availability, Reliability and Security ARES 2009*, Fukuoka, Japan, March 16-19, 2009.

- Founder of the *IEEE International Workshop in Heterogeneous Wireless Sensor Networks - HWISE*, and Chair 2005-21.

- Founder of the *IEEE International Workshop on Bio and Intelligent Computing BICom*, and Chair 2008-21.

- Founder of The *International Workshop on Advances in Information Security WAIS*, and Chair 2007-21.

- Workshop Chair of *The 21st IEEE International Conference on Advanced Information Networking and Applications (AINA 2007)*, Niagara Falls, Canada May 21-23, 2007.

- Co-Chair of The *First International Workshop on Broadband and Wireless Computing, Communication and Applications (BWCCA-2006)*, Yogyakarta, Indonesia, December 4 - 6, 2006.

- Program Chair of the *20th International Conference on Advanced Information Networking and Applications - AINA 2006*, Vienna, Austria, on April 19 - 21, 2006.

- Award Chair of the *3rd International Conference on Ubiquitous Intelligence and Computing (UIC-06)*, Wuhan and Three Gorges, China, September 3 - 6, 2006.

- Program Vice Chair for "Network Security" at *The 11th International Conference on Parallel and Distributed Systems ICPADS-2005*, at Fukuoka Institute of Technology (FIT), Fukuoka, Japan July 20 - 22, 2005.

- Program Vice-Chair of the *2005 International Conference on Embedded Software and System (ICESS-05)*, China.

- Program Area Chair for "Security in Ad hoc and Sensor Networks" at *The 19th IEEE International Conference on Advanced Information Networking and Applications (AINA 2005)*, Tamkang University, Taiwan, March 28 - March 30, 2005.

- Member of Advisory and Technical Committee for the *First International Workshop on Ubiquitous Smart Worlds (USW 2005)*, Tamkang University, Taipei, March 28-30, 2005.

- Program Vice Chair, *The 18th International Conference on Advanced Information Networking and Applications (AINA2004)*, Fukuoka, Japan, March 29-31, 2004.

- Publicity Co-Chair, *The 24th International Conference on Distributed Computing Systems*, Tokyo, Japan, March 23-27, 2004.

- Organizer and Moderator for the panel "Wireless networking: Interpretability and security challenges at the 23rd *IEEE International Performance and Communication Conference*, April 15-17, 2004 - Phoenix, Arizona.

- Organizer of special session on "Sensor Networks" at *BroadNets 2004*.

- Technical Program Committee Member:

  Globecom 2006-21, ICC 2007-19, I-SPAN 2008, First IEEE International Conference on Integrated Internet Ad hoc and Sensor Networks 2005, MASS'05, Symposium on Mobile Computing 2005, Second International Workshop on Networked Sensing Systems - INSS 2005, The First International Workshop on Security in Networks and Distributed Systems, The 7th International Workshop on Multimedia Network Systems and Applications (MNSA 2005), The 11th International Conference on Parallel and Distributed Systems ICPADS-2005, AINA 2005, BroadNets 2004, AINA 2004, SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2003), IEEE Globecomm 2002, SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2002), IEEE ICCCN 2001, SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2001).

- Session Chair: Globecom 2006, AINA 2004-09, BroadNets 2004, IPCCC 2004, SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2003), SPIE Conference on Quality of Service over Next-Generation Data Networks (ITCom 2002), IEEE ICCCN 2001, SPIE ITCom 2001, IEEE ICCCN 2000.

DEPARTMENTAL and SCHOOL SERVICES

CS Club Faculty Advisor 2016-present

Advisory Committee, Department of Computer and Information Science, IUPUI, 2011-present.

SOS Critical Thinkers Committee, IUPUI, 2021-2022

Primary Committee 2011 - 2022

SOS Unit Committee 2014-15

SOS Scholarship Committee 2013-17

SOS Appeals Committee 2015-16

Chair of Graduate Committee, Department of Computer and Information Science, IUPUI, 2019-20.

Graduate Committee, Department of Computer and Information Science, IUPUI, 2013-present.

Undergraduate Committee, Department of Computer and Information Science, IUPUI, 2009-12.

Research Committee, School of Science, IUPUI, 2007-13, 2022-23.

Computer Science Graduate Committee, LSU: 2003, 2004, 2005, 2006; IUPUI: 2007, 2008, 2018, 2019.

Computer Science Faculty Search Committee, LSU, 2003, 2004, 2005, 2006. Selected and hired five faculty candidates, 2003-05.

Computer Science Ph.D. and M.S Review Program Committee, LSU, 2003, 2004, 2005. Designed new Ph.D. and M.S programs in 2004.

Coordinator for the Ph.D. Qualifying Exam in the area of Computer Architecture, LSU, 2005, 2006, 2007.

Computer Science Undergraduate Curriculum, ABET accreditation Committee, LSU, 2006, 2007.