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RESEARCH INTERESTS

Network Architectures, Heterogeneous Wireless Ad Hoc and Sensor Networks, Security, Biomedical Engineering, Traffic Management and QoS, Grid Computing, Optical and Satellite Networks, Multimedia Networking, Circuit Design, and Performance Evaluation and Testing.

TEACHING INTERESTS

Computer Networks, Computer and Network Security, Wireless and Mobile Networking, Telecommunications, Computer Architecture, Operating Systems, Performance of Computer Systems, Simulation Techniques.

PROFESSIONAL EXPERIENCE

INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS, IN August 2007 - Present
Associate Professor at the Department of Computer and Information Science

- Leading research activities on heterogeneous wireless networks, network architectures, security, optical networks and bioinformatics.

LOUISIANA STATE UNIVERSITY, Baton Rouge, LA

July 2003 - July 2007

Assistant Professor at the Department of Computer Science

- Since 2006, **Principal Investigator** of the **LSU** project "**Heterogeneous Wireless Communications for Emergency Conditions.**" In this project we are exploring new techniques to use wireless communications during emergency conditions such as after natural or man made disasters, in face of new constrains and challenges in communication and security.
- Since 2005, **Principal Investigator** of the **NSF EPSCoR** project "**Scalable Broadcast Protocols for Wireless Sensor Networks.**" This project deals with the design and development of scalable broadcast protocols for sensor networks, where optimal tradeoffs between scalability, energy consumption and delivery ratio are required.
- Since 2005, **Principal Investigator** of the **Louisiana Board of Regents** project "**QoS and Secure Routing Protocol in Heterogeneous Sensor and Actor Networks.**" **This project was ranked number one at the Research Competitiveness Subprogram.** The design goal is to explore the tradeoffs among scalability, QoS, network life extension and security for routing protocols in heterogeneous wireless sensor networks.

- Since 2004, **Principal Investigator** of the **NSF** project "**Traffic Management in Emergency Situations**." This project focuses on the development of new theoretical solutions to prioritize IP traffic in emergency situations.
- Since 2004, **Principal Investigator** of the **LSU** project "**Hybrid Traceback against DDoS**." This project focuses on the development of new solutions to traceback DDoS attackers on the Internet.

OHIO STATE UNIVERSITY, Columbus, Ohio

1996 - 2003

Research Scientist (since 2000) at the Department of Computer Science and Engineering, Visiting Scholar (1996-2000). Adjunct Assistant Professor at the Department of Electrical and Computer Engineering, since 2002.

- Since 2000, **Principal Investigator** of the **NSF** project "**Traffic Management in IP Networks**". This project focuses on the development new theoretical congestion management solutions for IP networks. Proposed and analyzed Multilevel ECN (MECN) and Load Early Detection (LED), two new congestion management schemes. Developed a control theoretical based analysis framework to compare congestion control solutions and to optimize their performance. Developed new solution to improve TCP's performance over wireless links.
- Since 2000, Directed the Networking and Telecommunication Laboratory (NetLab) at OSU and led the related research. NetLab is a showcase laboratory for the Computer Science department at OSU.
- Since 2001, **Principal Investigator** of the **OAI-TRW-Honeywell** project "**Providing QoS in Next Generation Satellite Networks**". Developed new diffserv based QoS solutions for satellite networks. Tuned existing and new TCP congestion management schemes for satellite links.
- Since 2001, **Principal Investigator** of the **Itec-Ohio** project "**Measurement of QoS Parameters in IP Networks**". Proposed and analyzed new metric for Diffserv, MPLS and Congestion management in IP networks.
- Since 2001, **Co-Principal Investigator** of the **Itec-Ohio** project "**Video Transmission over Satellite Networks**". Developed new integrated network-video solutions for satellite networks.
- Developed new QoS solutions for optical networks. Integrated new proposed quality of signal methods with optical routing.
- Made significant contributions to ATM Forum Standard on "Performance Testing".

POLYTECHNIC UNIVERSITY OF TIRANA, Tirana, Albania

1995-1996

Associate Professor, Chairman of Telecommunications Department, Vice-Dean of the Electrical Engineering Faculty. Leader of several national and international research projects in the areas of computer and telecommunication networks.

- Led the Albanian research team on the "Rural Area Telecommunication Networks", a project funded by European Union under a PECHO program, in collaboration with Polytechnic University of Athens (Greece) and several telecommunication companies.
- New technologies for Distance Learning, funded by the European Union in the framework of Phare program.

- TEMPUS program funded by the European Union for developing new curricula in computer science and telecommunication.

TELESOFT INC., Rome, Italy

1991 - 1995

Senior System Designer at the R&D Department.

- Team leader of the GSM cell planning system project: "Integrated Radio Mobile Advanced Project System" IRMA-PS.
- Developed traffic management and Operation Support Systems applied to analysis and design of the following platforms: Operation and Management System (OMC) for mobile networks GSM and TACS.
- Designed OSS for the Intelligent Network and Billing system for mobile telephone network, and antifraud system for mobile network.

POLYTECHNIC UNIVERSITY OF TIRANA, Tirana, Albania

1986-1991

Research Scientist and Lecturer at the Department of Electronics.

- Designed CADs and simulation environments, which have been successfully used for the design of telecommunication systems in civil and military applications.
- Design of a terrestrial communication system center for the European Weather Forecast satellite "Meteosat."

EDUCATION

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

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

US citizen

AWARDS AND HONORS

- Excellent Paper Award among 331 papers at the 11th *IEEE International Conference on Parallel and Distributed Systems ICPADS 2005*.
- Three IEEE Certificates of Appreciation for Service, 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.
- Soros Foundation Scholarship, 1996
- Scholarship from Italian Telecommunication Institute, March - December 1991
- Ranked number one among all students in 70 years of the Superior School of Telecommunication of the Italian Telecommunication Institute and La Sapienza University of Rome, Italy.
- Graduated Golden Medal from Polytechnic University of Tirana.
- Graduated Golden Medal from High School, Tirana.
- Listed in *International WHO'S WHO of Professionals* since 2000 and in *International WHO'S WHO of Information Technology* since 1999.

PROFESSIONAL MEMBERSHIPS

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

RESEARCH GRANTS: TOTAL \$1.07 Million

- PI, *Scalable Broadcast Protocols for Wireless Sensor Networks*, NSF EPSCoR Award, \$12,000, 2005-06.
- PI, *Heterogeneous Wireless Communications for Emergency Conditions*, LSU Summer Stipend Award, \$5,000, 2006.
- Co-PI, *Development of High-Performance Sensor Networking Infrastructure- Wireless Testbed and Curriculum Innovations*, Louisiana Board of Regents, \$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, \$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, \$73,000, 2005-07.
- PI, *Hybrid Traceback against DDoS*, LSU Faculty Research Grant Award, \$10,000, 2004-05.
- PI, *Traffic Management in Disaster Conditions*, NSF, \$30,000, 2003-05.
- PI, *Traffic Management in IP Networks*, NSF, \$330,000, 2000-03.
- PI, *MPLS Performance Testing*, Spirent, \$10,000, 2002.
- PI, *Providing QoS in Next Generation Satellite Networks*, Collaborative Core Research Program 2000, Ohio Aerospace Institute, \$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, \$80,000, 2002-03.

Pending proposals: five at NSF.

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 Journal Articles

1. **Arjan Durresi**, Vamsi Paruchuri, "Broadcast Protocol for Energy-Constrained Networks," *IEEE Transaction on Broadcasting*, Vol. 53, No. 1, March 2007, pp. 112–119.
2. 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," accepted, to appear in *Journal of Interconnection Networks (JOIN)*, December 2007.
3. Fatos Xhafa, Leonard Barolli, **Arjan Durresi**, "An Experimental Study On Genetic Algorithms for Resource Allocation On Grid Systems," accepted, to appear in *Journal of Interconnection Networks (JOIN)*, December 2007.
4. **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, February 2007, pp. 42–54.
5. Fatos Xhafa, Leonard Barolli, **Arjan Durresi**, "Requirements for an Event-Based Simulation Package for Grid Systems," accepted, will appear in the *Journal of Interconnection Networks (JOIN)*, 2007.
6. Fatos Xhafa, Leonard Barolli, **Arjan Durresi**, "Batch Mode Scheduling in Grid Systems," accepted, will appear in *International Journal of Web and Grid Services (IJWGS)*, Vol. 3, No. 1, 2007.
7. Leonard Barolli, Fatos Xhafa, **Arjan Durresi**, G. De Marco "M3PS: a JXTA-based Multiplatform P2P System and Its Web Application Tools, accepted, to appear in *International Journal of Web Information Systems (IJWIS)*, Vol. 3, No. 1, 2007.
8. **Arjan Durresi**, "Anonymity in the Internet," *Cluster Computing: The Journal of Networks, Software Tools and Applications*, Springer, Vol. 10, No. 1, March 24, 2007, pp. 57–66.
9. **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.
10. **Arjan Durresi**, "QoS-Energy aware Broadcasting for Wireless Ad Hoc Networks," *Journal of Mobile Multimedia (JMM)*, Vol. 2, No. 4, 2006, pp. 344–358.

11. **Arjan Durresi**, Leonard Barolli, Akio Koyama, Makoto Takizawa, "Ubiquitous QoS Communications using Scalable Satellite Networking," accepted in *Journal of Ubiquitous Computing and Intelligence (JUCI)*, August 2006.
12. Akio Koyama, Junpei Arai, Leonard Barolli, **Arjan Durresi**, "EZRP: An Enhanced Zone-Based Routing Protocol for Ad-Hoc Networks and Its Performance Evaluation," accepted in *Concurrency: Practice and Experience*, Wiley InterScience, Vol. 19, No. 8, June 10, 2007, pp. 1141–1156.
13. **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, January 2007, pp. 126–133, Article in Press: doi:10.1016/j.adhoc.2006.05.015, July 2006.
14. **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.
15. **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.
16. **Arjan Durresi**, Vamsi Paruchuri, Mimoza Durresi, Leonard Barolli, Makoto Takizawa, "A Hierarchical Anonymous Communication Protocol for Sensor Networks," accepted in *Journal of Embedded Computing*, June 2006.
17. **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.
18. 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.
19. 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.
20. **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.
21. **Arjan Durresi**, Leonard Barolli, Mukundan Sridharan, Sriram Chellappan, Raj Jain, Hitai Ozbai, "Control Theoretical Optimization of TCP/IP Traffic Management in Satellite Networks," accepted in the *International Journal of Wireless and Mobile Computing (IJWMC)*, May 2006.
22. Hsiao-Chun Wu, Ji Chen, **Arjan Durresi** and Huaibei Zhou, "Automatic Geometry-driven OFDM Quality-of-service Analysis for Indoor Environments," *Journal of Interconnection Networks (JOIN)*, Vol. 7, No. 1, March 2006, pp. 147–161.
23. Songnan Xi, Hsiao-Chun Wu, Tho Le-Ngoc and **Arjan Durresi**, "Fast Channel Estimation Using Maximum-length Shift-register Sequences," accepted in the *International Journal of Wireless and Mobile Computing (IJWMC)*, May 2006.

24. M. Durresi, **A. Durresi**, L. Barolli, "Secure Broadcast for Inter Vehicle Communications," will appear in the *International Journal of High performance Computing and Networking (IJHPCN)*, Vol. 4, No. 5, 2006.
25. Leonard Barolli, Akio Koyama, **Arjan Durresi**, Giuseppe 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.
26. **A. Durresi**, M. Durresi, L. 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.
27. M. Ikeda, L. Barolli, A. Koyama, **A. Durresi**, G. De Marco, J. 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.
28. **A. Durresi**, M. Sridharan, R. Jain, "Congestion Control using Adaptive Multilevel Early Congestion Notification," will appear in the *International Journal of High performance Computing and Networking (IJHPCN)*, Vol. 4, No. 5, 2006.
29. R. Kalidindi, S. Basavaraju, L. Ray, R. Kannan, **A. 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.
30. **Arjan Durresi**, Vamsi Paruchuri, Shantanu Bhardwaj, Raj Jain, "Source Adaptive Network Driven Layered Multicast Video," accepted in *Computer Communications Journal*, 2006.
31. **A. Durresi**, "Routing of Real-time Traffic over a Multilayered Satellite Architecture," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 1, No. 6, 2005, pp. 20–35.
32. **Arjan Durresi**, Vamsi Paruchuri, Raj Jain "Geometric Broadcast Protocol for Heterogeneous Wireless Sensor Networks," *Journal of Interconnection Networks (JOIN)*, Vol. 6, No. 3, September, 2005, pp. 193–208.
33. M. Durresi, **A. Durresi**, L. Barolli, "Scalable Inter-Vehicle Communication Protocol," *Journal of Mobile Multimedia (JMM)*, Vol. 1, No. 3, September 2005, pp. 224–234.
34. N. Nakamura, L. Barolli, K. Sugita, J. Ma, **A. Durresi**, "Implementation of pure P2P Collaboration on Multiplatforms and its Applications," *Journal of Interconnection Networks (JOIN)*, September, 2005, pp. 229–244.
35. **Arjan Durresi**, Vamsi Paruchuri, Rajgopal Kannan, Sitharama S. Iyengar, "Optimized Broadcast Protocol for Sensor Networks," *IEEE Transactions on Computers*, Vol. 54, No. 8, August, 2005, pp. 1013–1024.
36. **Arjan Durresi**, Vamsi Paruchuri, S. Sitharama Iyengar, Rajgopal Kannan "Data Integrity for Sensor Networks," *International Journal of Distributed Sensor Network*, Vol. 1, No. 2, 2005, pp. 205–214.
37. A. Koyama, L. Barolli, G. Capi, B. O. Apduhan, J. Arai, **A. Durresi**, "An Efficient Multi-purpose optimization method for QoS Routing Using Genetic Algorithm," *Journal of Interconnection Networks (JOIN)*, Vol. 5, No. 4, 2004, pp. 409–428.

38. L. Barolli, A. Koyama, Y. Honma, **A. Durresi**, J. Arai, "Performance Evaluation of Selective-Broadcasting Routing Protocol for Ad-hoc Networks," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 1, No. 5, 2005, pp. 5–15.
39. L. Barolli, A. Koyama, B.O. Apduhan, **A. Durresi**, K. Sugita, R. Miho, "Performance Evaluation of a Scalable Media Access Control Protocol for Single Hop WDM Networks," *International Journal of High Performance Computing and Networking (IJHPCN)*, Vol. 3, No. 5/6, 2005, pp. 309–319.
40. **A. Durresi**, V. Paruchuri, L. Barolli, R. Kannan, "Anonymous Communication Protocol for Sensor Networks," *International Journal of Wireless and Mobile Computing (IJWMC)*, Vol. 1, No. 5, 2005.
41. **A. Durresi**, V. Paruchuri, L. Barolli, R. Kannan, and S.S. Ivengar, "Efficient and secure autonomous system based traceback," *Journal of Interconnection Networks (JOIN)*, Vol. 5, No. 2, pp. 151–164, June 2004.
42. Betty Lise Anderson, **Arjan Durresi**, David Rabb and Feras Abou-Galala, "Real-Time All-Optical Quality of Service Monitoring Using Correlation and a Network Protocol to Exploit It," *Journal of Applied Optics*, Vol. 43, No. 5, pp. 1121–1130, February 2004.
43. **Arjan Durresi**, Sastri Kota, Raj Jain, Mukul Goyal, "Achieving QoS for TCP Traffic in Satellite Networks with Differentiated Services," *Space Communications Journal*, Vol. 17, No. 1-3, 2001, pp. 125–136.
44. Kulathumani Vinodkrishnan, **Arjan Durresi**, Nikhil Chandhok, Ramesh Jagannathan, Srinivasan Seetharaman, Raj Jain, "Fault Protection in Optical Networks," *Journal of High Speed Networks*, Vol. 10, No. 2, 2001, pp. 79–90.
45. **Arjan Durresi**, "Computer Aided Design of High Frequency Oscillators," *Journal of Technical Sciences*, Tirana, No.1, 1997, pp. 24–30.
46. **Arjan Durresi**, "Computer Aided Design of High Frequency Filters," *Journal of Technical Sciences*, Tirana, No.1, 1996, pp. 33–40.
47. **Arjan Durresi**, "Planning and Design of mobile network GSM using IRMA-PS System," *Journal of Technical Sciences*, Tirana, No.2, 1995, pp. 17–24.
48. **Arjan Durresi**, "Computer Aided Analysis of High Frequency Circuits," *Journal of Technical Sciences*, Tirana, No.1, 1995, pp. 5–12.
49. **Arjan Durresi**, "Computer Aided Design of High Frequency Amplifiers," *Journal of Technical Sciences*, Tirana, No.3, 1988, pp. 30–42.

Submitted Journal Articles

50. **Arjan Durresi**, Vamsi Paruchuri, Sitharama S. Iyengar, "Routing using BackBone Protocol in Heterogeneous Sensor Networks," submitted to the *IEEE Transactions on Computers*, 2006.
51. **Arjan Durresi**, Vamsi Paruchuri, Raj Jain, Makoto Takizawa, "Adaptive Routing-Energy Management for Heterogeneous Sensor Networks", submitted to the *IEEE/ACM Transaction On Networking*, 2006.
52. **Arjan Durresi**, Vamsi Paruchuri, Joythi Innamuri, Betty Lise Anderson, "QoS Domain Based Optical Routing Protocol," submitted to the *Journal of Selected Areas of Communications*, 2006.

53. **Arjan Durresi**, Vamsi Paruchuri, "Autonomous System based Traceback," submitted to the *IEEE/ACM Transaction On Networking*, 2006.
54. **Arjan Durresi**, Vamsi Paruchuri, "Geometric Adaptive Clustering Protocol for Sensor Networks," submitted to the *IEEE Transactions on Wireless*, 2006.
55. A. Durresi, V. Bulusu, V. Paruchuri, "Key Distribution for Heterogeneous Mobile Sensor Networks," submitted to the *Computer Networks*, 2006.
56. C. Mallanda, A. Suri, V. Kunchakarra, S.S. Iyengar, R. Kannan, **A. Durresi**" Simulating Wireless Sensor Networks with OMNeT++ ", under revision at *IEEE Computers*, 2006.

Books and Book Chapters

57. **Arjan Durresi** and Raj Jain, "ATM Networks," Invited Chapter, in **The Handbook of Computer Networks**, Edited by Hossein Bidgoli, John Wiley & Sons Inc., ISBN-13: 978-0471784616, November 28, 2007.
58. **Arjan Durresi** and Raj Jain, "RTP, RTCP and RTSP - Internet Protocols for Real Time Applications," Chapter in **The Industrial Information Technology Handbook**, Edited by Richard Zurawski, Published by CRC Press, ISBN: 0849319854, February, 2005.
59. Rajgopal Kannan, S. Sitharama Iyengar, **Arjan Durresi**, "Framework for Secure Information Management in Critical Systems," Chapter in **Web and Information Security**, edited by Elena Ferrari and Bhavani Thuraisingham, Published by IRM Press, ISBN: 159140589-0, October 2005.
60. **Arjan Durresi**, Sastri Kota, "IP over Satellite Networks," Chapter in **High Performance TCP/IP Networking**, Edited by Mahbub Hassan and Raj Jain, Published by Prentice Hall, ISBN: 0130646342 October 2003, Prentice Hall
61. Sastri Kota, **Arjan Durresi**, Raj Jain, "Realizing Future Broadband Satellite Network Services," Chapter in **On Modelling and Simulation Environment for Terrestrial and Satellite Networks**, Edited by A. Nejat Ince, Published by Kluwer, ISBN: 0-7923-7547-5, October 2001
62. Gojko Babic, Raj Jain, and **Arjan Durresi**, "ATM Performance Testing and Quality of Service Management," Chapter in **The IEC ATM Handbook**, Edited by Forouzan Golshani and Frank Groom, Published by International Engineering Consortium, ISBN: 0-33217-63-3, Chicago, IL, 2000
63. **Arjan Durresi**, "Exercises of Electronics," 100 Pages, Published by SHBLU Tirana 1989.
64. **Arjan Durresi**, "Microwaves," 270 Pages, Published by SHBLU Tirana 1989.

Refereed Articles in Conference Proceedings

65. Vamsi Paruchuri, **Arjan Durresi**, Raj Jain, "On the (in)effectiveness of Probabilistic Marking for IP Traceback under DDoS Attacks," accepted at *50th IEEE Global Telecommunications Conference GLOBECOM2007*, to be held in Washington, D.C., on November 26-30, 2007.
66. Vamsi Paruchuri, **Arjan Durresi**, Leonard Barolli, Makoto Takizawa, "Three Dimensional Broadcast Protocol for Wireless Networks," accepted at *International Conference on Parallel Processing (ICPP 2007)*, XiAn China, September 10-14, 2007.

67. **Arjan Durresi**, "Architecture for a Ubiquitous Health Monitoring System," accepted at *29th Conference of IEEE Engineering in Medicine and Biology Society - EMBC 2007*, to be held in Lyon, France, August 23-26, 2007.
68. **Arjan Durresi**, Arben Merkoci, Mimoza Durresi, Leonard Barolli, "Integrated Biomedical System for ubiquitous Health Monitoring," accepted at *International Conference on Network-Based Information Systems - NBIS2007*, Regensburg, Germany, 3-7 September 2007.
69. **Arjan Durresi**, Mimoza Durresi, Leonard Barolli, "Wireless Communications for Health Monitoring on Highways," in *Proceedings of the Ninth IEEE International Workshop on Multimedia Network Systems and Applications MNSA-2007*, held in conjunction with The *27th IEEE International Conference on Distributed Computing Systems ICDCS-2007*, Toronto, Canada, June 25-29, 2007.
70. **Arjan Durresi**, Vamsi Paruchuri, "Adaptive Coordination Protocol for Heterogeneous Wireless Networks," in *Proceedings of the IEEE International Conference on Communications - ICC 2007*, Glasgow, Scotland, June 24-28, 2007.
71. **Arjan Durresi**, Vamsi Paruchuri, Leonard Barolli, "FAST: Fast Autonomous System Traceback," in *Proceedings of The IEEE 21st International Conference on Advanced Information Networking and Applications AINA 2007*, Niagara Falls, CA, May 21-23, 2007, pp. 498 – 505.
72. Mimoza Durresi, **Arjan Durresi**, Leonard Barolli, "Herarchical Communications for Battlefields," accepted at *Third IEEE Workshop on Heterogeneous Wireless Networks - HWISE 2007*, held in conjunction with *AINA 2007*, Niagara Falls, CA, May 21-23, 2007, pp. 690 – 695.
73. Fatos Xhafa, Leonard Barolli, **Arjan Durresi**, "Immediate Mode Scheduling of Independent Jobs in Computational Grids," in *Proceedings of The 21st IEEE International Conference on Advanced Information Networking and Applications AINA 2007*, Niagara Falls, CA, May 21-23, 2007, pp. 970 – 977.
74. **Arjan Durresi**, Vamsi Paruchuri, Leonard Barolli, "Secure Spatial Authentication using Cell Phones," in *Proceedings of the International Conference on Availability, Reliability and Security - ARES 2007*, Vienna, Austria, April 10 - 13, 2007, pp. 543 – 549.
75. **Arjan Durresi**, Mimoza Durresi, Fatos Xhafa, Leonard Barolli, "MPLS Traffic Engineering in Satellite Networks," in *Proceedings of the International Conference on Complex, Intelligent and Software Intensive Systems CISIS-2007*, Vienna, Austria, April 10 - 13, 2007, pp. 19 - 26..
76. Leonard Barolli, Makoto Ikeda, **Arjan Durresi**, Fatos Xhafa, Akio Koyama, "A Distributed QoS Routing and CAC Framework: Performance Evaluation of Its SSRA and InterD Agents," in *Proceedings of the International Conference on Complex, Intelligent and Software Intensive Systems CISIS-2007*, Vienna, Austria, April 10 - 13, 2007, pp. 60 – 67.
77. Santi Caballe, Fatos Xhafa, Thanasis Daradoumis, Joan Esteve, Leonard Barolli, **Arjan Durresi**, "Using a Grid Platform for Enabling Real Time User Modeling in On-line Campus," in *Proceedings of the International Conference on Complex, Intelligent and Software Intensive Systems CISIS-2007*, Vienna, Austria, April 10 - 13, 2007, pp. 35 – 42.
78. **Arjan Durresi**, Vamsi Paruchuri, "Scalable Hierarchical Traceback," in *Proceedings of IEEE GLOBECOM 2006*, San Francisco, November 27 - December 1, 2006, NXG01-4: pp. 1–5.

79. **Arjan Durreesi**, Vijay Bulusu, Vamsi Paruchuri, Raj Jain, "Key Distribution in Mobile Heterogeneous Sensor Networks," in *Proceedings of IEEE GLOBECOM 2006*, San Francisco, November 27 - December 1, 2006, WSN09-4: pp. 1 – 5.
80. K. Sugita, N. Uchida, L. Barolli, **A. Durreesi**, "Performance Evaluation of Server Load for a WWW-based Video-Conference System," in *Proceedings of iiWAS-2006*, Yogyakarta, Indonesia, December 2006.
81. Fatos Xhafa, Leonard Barolli, **Arjan Durreesi**, "Evaluation of Batch Mode Methods for Scheduling in Grid Systems," in *Proceedings of International Workshop on Broadband and Wireless Computing, Communication and Applications (BWCCA-2006)*, Yogyakarta, Indonesia, December 4 - 6, 2006.
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Technical Reports

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Invited Talks

1. "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.
2. "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.

3. "Architectures for Heterogeneous Wireless Sensor Networks," presented at the Department of Computer Science, Fordham University, New York, NY, April 28, 2005.
4. "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.
5. "Research on Heterogeneous Wireless Sensor and Actor Networks," presented at the Broadband & Wireless Networking Lab in Georgia Institute of Technology, October 7, 2004.
6. "Security for Sensor Wireless Networks," presented at Polytechnic University of Tirana, Albania, May 14, 2004.
7. "Wireless networking: Interoperability and security challenges," Organizer and Moderator of the Panel on Wireless Networking at *23rd IEEE International Performance Computing and Communications Conference - IPCC 2004*, Phoenix, AZ, April 16, 2004
8. "Research in Emerging Areas of Networking," presented at Fukuoka Institute of Technology, Fukuoka, Japan, March 27, 2004.
9. "Research in Emerging Areas of Networking," Yamacraw Distinguished Speaker, at Georgia Southern University, Statesboro, GA, December 5, 2003.
10. "Enhanced Traffic Management in IP Networks", presented at the 2003 NSF ANIR Principal Investigator Meeting, January 9-10, 2003, Reston, Virginia.
11. "Measuring QoS Parameters in IP Networks and Video over Satellite Networks," presentation of two TAF Project Results, Columbus, Ohio, June 28, 2002.
12. "Computer Networking: Trends and our Research at Netlab in OSU," presented at Lucent, Columbus, Ohio, June 19, 2002.
13. "Traffic Management on Next Generation Satellite Networks with On-Board Processing," presented in the OAI forum: "Collaborations 2002," April 16, 2002, Cleveland Ohio.
14. "QoS Parameters in IP Networks," presented at ITEC-Ohio, March 21, 2002.
15. "Measuring QoS Parameters in IP Networks," presented in the Conference "Windows on the Future," November 29-30, 2001, Columbus, Ohio.
16. "Research in Networking at NetLab," presented in the CIS885 November 27, 2001, Columbus, Ohio.
17. "Operating Support Systems in Optical Networks," invited panelist in IEEE ICCCN 2001, October 14-19, Phoenix, Arizona.
18. "Research in Emerging Networking Technologies at NetLab," presented in the Conference "Windows on the Future," March 29-30, 2001, Columbus, Ohio.
19. "Advanced Research Projects in Networking," presented at Polytechnic University of Tirana, March 20, 2001.
20. "Hot Topics Networking Research in NetLab," presented at ITEC-Ohio, January 22, 2001.
21. "QoS for Real Time Applications over Next Generation Data Networks," presented at NASA LRC Cleveland, December 8, 2000.
22. "QoS in IP over Satellite Networks," presented at the meeting among TRW, OAI, Honeywell, and CIS Department, Columbus, Ohio, November 15, 2000.
23. "Wireless LAN Architectures," presented at CIS and EE Departments, Columbus, Ohio, May 11, 2000.

24. "Network Calculus and Applications," presented at CIS Department, Columbus, Ohio, March 12, 2000.
25. "Transmission of High Quality Multicast Video," presented at CIS and EE Departments, Columbus, Ohio, June 14, 1999.
26. "Wireless Mobile Telephony", presented at CIS and EE Departments, Columbus, Ohio, March 15, 1999.
27. "Streaming Video," presented at CIS and EE Departments, Columbus, Ohio, February 25, 1999.
28. "Scalable Transmission of Multicast Video", presented at CIS and EE Departments, Columbus, Ohio, September 14, 1998.
29. "Multimedia Over the Internet", presented at CIS and EE Departments, Columbus, Ohio, February 23, 1998.

PROJECTS

Heterogeneous Wireless Communications for Emergency Conditions.	LSU. 2006 - Present
Protocols for Heterogeneous Sensor Networks.	Supported by LSU. 2003 - Present
Security in Sensor Networks. Key distribution, anonymity, integrity.	2003 - Present Supported by LSU
Hybrid Traceback against Distributed Denial of Service.	2003 - 05 Supported by LSU
Traffic Management in Disaster Conditions.	Supported by NSF. 2003 - 05
Traffic Management in IP Networks.	Supported by NSF. 2000 - 03
Video Transmission over Satellite Networks.	2000 - 02 Supported by ITEC-OHIO and State of Ohio.
Providing QoS in Next Generation Satellite Networks.	2000 - 02 Supported by Ohio Aerospace Institute, TRW, and Honeywell.
Measuring QoS Parameters in IP Networks.	2000 - 02 Supported by ITEC-OHIO and State of Ohio.
QoS over Satellite Networks.	Supported by NASA. 1999 - 01
Experimental Testbed for Research in Advanced Wireless Communications.	1998 - 00 Supported by NSF.
Congestion Avoidance in High Speed Networks.	Supported by NSF. 1998 - 00
Laboratories for Data Communications and Computer Networks.	1996 - 99 Supported by NSF.
ATM Testbed for Multimedia and Distributed Computing.	1996 - 99 Supported by NSF and Ohio Board of Regents.
Rural area telecommunication networks.	1994 - 96 Supported by European Union.

New technologies for Distance Learning. Supported by European Union.	1994 - 96
Billing for GSM Networks. Supported by Telecom Italia. S.p.A.	1993 - 94
Operation Support Systems for Intelligent Networks. Supported by Telecom Italia. S.p.A.	1993 - 94
GSM Cell Planning System. Supported by Telesoft. S.p.A.	1992 - 94
Operation and Management Centers for GSM Networks. Supported by Telesoft. S.p.A.	1991 - 94

TEACHING EXPERIENCE

At Louisiana State University

- Proposed and designed CSC7702: "Telecommunications Networks", graduate level, taught it on Spring 2004, Fall 2006.
- Proposed and designed CSC7602: "Wireless Networks", graduate level, taught in Fall 2005.
- Designed CSC3501: Computer Organization and Design (Undergraduate Level), taught in Fall 2005.
- Designed CSC7080: "Computer Architecture", graduate level, taught in Spring 2005, 2006.
- Proposed and designed CSC7502: "Advanced Computer and Network Security", graduate level, taught it on Fall 2004.
- Proposed and designed CSC4601: "Computer and Network Security", undergraduate/graduate level, taught it on Fall 2003, 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 thousand 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, Adviser for eleven master degree thesis in the field of computer and telecommunication networks and communications.

Graduate Students at OSU and LSU

Prasanna Jaganathan, graduated in Autumn 2001, M. S. Thesis: Proportional Allocation of Bandwidth. Employed at Citrix, Lauderdale, Fla.

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

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

Sriram Chellappan, graduated in Autumn 2002, M.S. degree, Thesis area: Congestion Control.

Shantanu Bhardwaj, graduated in Summer 2002. M.S. degree, Thesis area: Video Networking.

Durga S. Dash, graduated in Summer 2003. M.S. degree, Thesis area: Satellite Networking. Employed at Microsoft.

Vamsi K Paruchuri, graduated in Summer 2003. M.S. degree, Routing in Ad-hoc networks.

Shivakumar Basavaraju, graduated in Summer 2004. M.S. degree, Thesis area: Sensor networks.

Cariappa Mallanda, graduated in Fall 2004. M.S. degree, Thesis area: Sensor networks.

Nanduri Kishori, graduated in Spring 2005. M.S. degree, Scalable Traceback against Distributed Denial of Service.

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

Lyn Evans, graduated in Fall 2005. M.S. degree, Thesis: Authentication in 3G-WLAN Networks.

Vijay Bulusu, graduated in Summer 2006, M.S. degree, Security in Heterogeneous Wireless Networks.

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

Ping Zhang, working for his PhD thesis in the area of New Internet Architecture.

Research adviser for 10-15 CIS and ECE graduate students each semester.

Master thesis and examination committee member: 14.

Ph.D. thesis and examination committee member: 5.

PROFESSIONAL SERVICES

Editorial Service

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

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

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 on Wireless Sensor Networks*, Special Issue: Heterogeneous Wireless Ad Hoc Networks. Submission deadline: August 15, 2005

Reviews

Served in various NSF review panels.

Reviewed research papers for the following international journals and conferences:

- 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 Globecom 2006, 2005, 2004, 2003, 2002, 2000. 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 IEEE International Workshop on BioComputing*, in conjunction with *AINA 2008*, Ginowan, Okinawa, Japan, on March 25-28, 2008.
- Co-Chair of the *Fourth IEEE International Workshop on Heterogeneous Wireless Networks HWISE2008*, in conjunction with *AINA 2008*, Ginowan, Okinawa, Japan, on March 25-28, 2008.
- Co-Chair of The *Second International Workshop on Advances in Information Security WAIS 2008*, barcelona, Spain, March 4 - 7, 2008, in conjunction with *ARES 2008*.
- International Liaison Co-Chair of the *First International Conference on Complex, Intelligent and Software Intensive Systems CISIS'2007*, Vienna, Austria April 10 - 13, 2007, in conjunction with *ARES 2007*
- Co-Chair of The *First International Workshop on Advances in Information Security WAIS 2007*, Vienna, Austria April 10 - 13, 2007, in conjunction with *ARES 2007*.
- Workshop Chair of *The 21th IEEE International Conference on Advanced Information Networking and Applications (AINA 2007)*, Niagara Falls, Canada May 21-23, 2007.
- Co-Chair of the *Third IEEE International Workshop on Heterogeneous Wireless Networks HWISE2007*, in conjunction with *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 Chair, *The Second IEEE International Workshop in Heterogeneous Wireless Sensor Networks - HWISE 2006*, Vienna, Austria, April 19 - April 21, 2006.
- Founder and Chair, *The First IEEE International Workshop in Heterogeneous Wireless Sensor Networks - HWISE 2005*, Fukuoka, Japan, July 20 - 22, 2005.
- 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 2008, I-SPAN 2008, Globecom 2007, ICC 2007, Globecom 2006, First IEEE International Conference on Integrated Internet Ad hoc and Sensor Networks 2005, The 2nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems - 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 Globecom 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, 2005, 2007, 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 SERVICES

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

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

Computer Science Graduate Admission Committee, 2003, 2004, 2005, 2006, 2007.

Coordinator for the PhD Qualifying Exam in the area of Computer Architecture, 2005, 2006, 2007.

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

Languages

English, French, Italian, Albanian and some German.