Extended Curriculum Vitae

Mr. **GERGELY VID ZÁRUBA**, Ph.D.

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Research/Work Experience:

Professor

The University of Texas at Arlington, September 2013 – (various academic positions since September 2001)

- Professor at the Department of Computer Science and Engineering
- Director of the Undergraduate Computer Engineering Program
- Member of the Undergraduate Assembly.
- Faculty advisor to the student group for Advancement in Mobile Applications
- (MOBI)
- ABET program evaluator.
- Was involved in research funded in excess of $8M (>$2M as PI)
- Tenured Associate Professor between 2008 and 2013
- Assistant Professor between 2001 and 2008
- Received Prestigious Faculty Development Leave for 2009
- Directed and co-directed many research and development projects.
- Member of the Assist, and LearN Laboratories.
- Has managed the Embedded Systems, the Digital Logic, and the Multimedia and Networking Teaching Labs.
- Developed many new courses and labs.
- Supervised many M.S. and Ph.D. students as well as participated in countless Ph.D. and M.S. student committees.

Research Assistant

The University of Texas at Dallas, November 1998 – May 2001

- Doctoral Research in link activation techniques, adaptive medium access control protocols, hybrid medium access protocols for mobile ad hoc networks, Bluetooth scatternet formation issues, and admission control in cellular networks with call degradation.
- Member of the Center for Advanced Telecommunication Systems and Services (CATSS).
- Developed and programmed an extensive discrete-event network emulator (C++/Linux). Programmed optical simulator for evaluation of wavelength switching techniques.
- Published papers in various refereed conferences/journals, and also served as a reviewer for various international conferences/journals.
- Administered Linux and Windows NT computers in CATSS.
- Developed ideas on converting existing simulations into the Opnet package.

Research Assistant

Technical University of Budapest, Hungary, September 1995 – November 1998

- Doctoral and Masters Research in special signaling systems for distributed multimedia services over ATM networks.
- Member of Hungary's then leading academic research laboratory, the High Speed Networks Laboratory (HSNLab).

- Served as liaison between HSNLab and Telia Research A.B., Sweden.
- Supervised graduate students involved in HSNLab projects.
- Teaching assistant for databases laboratory (graduate course).

Guest Researcher — **Telia Research A.B.**, Stockholm, Sweden, February 1997 - July 1997

- Participated in a joint R&D effort with Telia Research and HSNLab.
- Designed/implemented a multimedia signaling protocol and corresponding applications for ATM enabled SUN workstations.

Intern — **Ericsson Austria A.G.**, Vienna, Austria, February 1996 - July 1996

- Designed, prototyped, programmed and tested a micro-controller based management card for a new PBX product communicating via an I^2C bus.
- Repaired electronic test equipment.

Lecturer — **Gábor Dénes Technical College**, Budapest, Hungary, fall 1995, fall 1996

- Held basic and advanced computer lab classes on UNIX (Linux) operating system principles.

Education:

Ph.D. — **University of Texas at Dallas**, May 2001

- Ph.D. in **Computer Science**, doctoral advisor: Dr. Imrich Chlamtac (Fellow IEEE, Fellow ACM, Distinguished Chair in Telecommunications)
- Attended UTD between August 1999 and May 2001**.**
- Research in link activation for mobile radio networks.
- Ph.D. studies at the Technical University of Budapest, August 1997 – August 1999.
- Graduate coursework included: advanced radio networks, multimedia communications, and telecommunication protocols.

Masters — **Technical University of Budapest**, Hungary, June 1997

- Masters in **Computer Engineering** (Technical Informatics Engineering)
- Attended school between August 1992 and June 1997.
- Completed defense at the Department of Telecommunications and Telematics
- Emphasis on Business Telecommunications and Multimedia.
- Graduate studies at the **Technical University of Vienna, Austria**, February 1996 – July 1996.
- Graduate coursework included: telecommunication networks, telecommunication protocols, multimedia enabled networks, optical networks (FDDI, ATM), radio communications, control theory, voice recognition, voice and video compression, information theory, operating systems, data bases, object oriented programming, hypermedia.

Telecomm. Technician — Pataki István Technical High School, Budapest, Hungary, September 1988 - May 1992

- Honor roll student
- Attended High School in Frankfurt a.M., Germany, fall 1986 – fall 1988

Theses:

- Ph.D. – Link Activation Methods in Advanced Mobile Radio Networks
- Masters – Video Conference Application for the EMMA Teleconference Service

Professional Affiliations:

- Senior member of the Institute of Electrical and Electronics Engineers (IEEE) (member of ComSoc)

Professional Activities:

- Technical Program Committee member for IEEE PerCom 2017, IEEE PerCom 2016, IEEE PerCom 2015, IEEE PerCom 2014 PETRA 2013, IEEE PerCom 2013, IEEE PerCom 2012, IEEE PerCom 2012, IEEE PerCom 2011, WoWMoM 2011, IEEE PerCom 2010, IEEE CCNC 2010, IEEE WoWMoM 2009, IEEE CCNC 2009, WINSYS2009, IEEE PerCom 2009, ICST COMNETS 2008, WINSYS2008, IEEE PerCom 2008, IEEE WoWMoM 2008, ICPADS 2007, ICST BroadNets2007, IEEE PerCom2007, IEEE WoWMoM 2007, WINSYS2007, AdHocNOW2006, ICETE2006, BroadNets 2006, PerCom2006, WINSYS2006, WoWMoM 2006,, AdHocNOW2005, ICETE2005, BroadNets 2005, HICSS-39 WPAN minitrack, IEEE WoWMoM 2005, PerCom2005, BoradNets 2004, HICSS-38 WPAN minitrack, HICSS-37 WPAN minitrack, OptiComm2003, WMAN2003, ICC2003, HICSS-36 WPAN minitrack, PerCom2003, OptiComm2002
- Technical Program Committee Chair for IEEE PerCom 2017
- Editorial Board member for the Elsevier Computer Communications Journal.
- Steering Committee member for the IEEE International Conference on Pervasive Computing and Communications (IEEE PerCom)
- Faculty Advisor for the Mobile Device Programming Student Group (MOBI) at UTA.
- International Advisory Committee member for the HTE (IEEE sister society) Infocommunications Journal.
- Member and consulting member of the UT Arlington IRB (Institutional Review Board)
- Member of the UTA Undergraduate Assembly.
- General Chair for IEEE PerCom 2014
- Vice-General Chair for IEEE PerCom 2009
- Technical Program Vice-Chair (Networking) for IEEE PerCom 2008
- Finance and Registrations Chair for IEEE PerCom 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2016, 2017
- Frequent reviewer for the National Science Foundation, for various European Union funding sources, and for UT System proposals.
- Reviewed and evaluated multiple tenure cases at U.S. Universities.
- Demo Chair for IEEE MASS 2007
- Workshops Chair for IEEE PerCom 2007
- Work in Progress Session Chair for IEEE PerCom 2006
- Minitrack Chair: on Wireless Local and Personal Area Networks at the Hawaiian International Conference on System Sciences (Software Track) 2003, 2004, 2005, and 2006
- Local Chair for IEEE PerCom 2003
- Publicity Chair: Optical Networking and Communications Conference – OptiComm 2002 and 2003
- Guest Editor of the ACM/Kluwer journal: Mobile Networks and Applications (MONET), Special Issue on Advances in Research of Wireless Personal Area Networking and Bluetooth Enabled Networks, 2002
- Internet Chair: Optical Networking and Communications Conference – OptiComm 2000
- Publicity Chair: Workshop on Wireless Mobile Multimedia (In conjunction with ACM MobiCom) 2002.
- Reviewer for several major conferences (Globecom, Infocom, VTC, MobiCom, ICC) and journals (ACM WINET, ACM MONET, IEEE TPDS, IEEE ToN, IEEE TMC, IEEE JSAC) on topics of wireless cellular and ad hoc networking, and optical communications.

Language Proficiencies:

- Hungarian (native)
- English
- German

Scholarships and Awards:

04/15	Lockheed Martin Excellence in Teaching Award
03/15	IEEE PerCom 2015 Service Award
03/14	IEEE PerCom 2014 Service Award
2013	Promoted to Full Professor
2013	Recognized at 4th UTA Celebration of Faculty Creative Works
03/13	IEEE PerCom 2013 Service Award
2012	Recognized at 3rd UTA Celebration of Faculty Creative Works
03/12	IEEE PerCom 2012 Service Award
03/11	IEEE PerCom 2011 Service Award
2011	Recognized at 2nd UTA Celebration of Faculty Creative Works
03/10	IEEE PerCom 2010 Service Award
2010	Recognized at 1st UTA Celebration of Faculty Creative Works
03/09 – 05/09	Invited Visiting Research Fellow at the Universität Mannheim, Germany
02/09	Invited Visiting Research Fellow at the Hong Kong Polytechnic University
03/09	IEEE PerCom 2009 Service Award
03/09	Research Excellence Award of the College of Engineering
05/08	Faculty Development Leave Award for 2009
03/08	IEEE PerCom 2008 Service Award
03/08	Research Excellence Award of the College of Engineering
10/07	IEEE MASS Service Award
06/07 – 08/07	ONR Summer Research Faculty Award
03/07	Research Excellence Award of the College of Engineering
03/07	IEEE PerCom 2007 Service Award
03/06	Research Excellence Award of the College of Engineering
03/06	IEEE PerCom 2006 Service Award
08/00	Best Paper Award at the ACM MSWIM'2000 workshop.
08/99 - 05/01	Recipient of the TxTec scholarship award.
08/97 – 12/98	Recipient of the honorific Hungarian State Scholarship for Ph.D. studies.
02/96 – 07/96	Ericsson Austria scholarship for studies in Vienna, Austria.
09/95 – 05/97	Technical University of Budapest graduate scholarship.

Patents

- **G.V. Záruba**, M. Huber, F.A. Kamangar, D.Levine, "Location and Tracking System, Method and Device Using Wireless Technology," patent number: 7,592,909, September 22nd, 2009.
- **G.V. Záruba**, D. Schoech, M. Huber, F.A. Kamangar, D.Levine, "System and Method for Social Service Management,"Draft number: UTP-162US, September, 2009.

Funded Grants and Gifts:

- M. Huber, F. Kamangar, , **G. Záruba**, "Functional Imitation of Observed Tasks by Co-Robos," NSF-NRI, EAGER, 09/01/2015-08/31/2016, total award: $139,968, 2015.
- C. Cason, M, Huber, K. Daniel, **G. Záruba**, D. Levine, "Lakewood Village in Kind Contribution to the SmartCare project," Lakewood Village, Christian Care Centers. 2012-2017, $190,015 (2012).

- **G. Záruba**, M. Huber, P. Cohen, F. Kamangar, D. Levine, (V. Athitsos, J. Gao, H. Huang, J. Huang, G-L. Mariottini, and F. Makedon,) "Graduate Assistance in Areas of National Need - Educating Health Informatics Researchers at the Computer Science and Engineering Department of The University of Texas at Arlington," Department Of Education, total award: $980,549 (from EDU:$533,064), awarded: August 2012, (from 09/2012-08/2016).
- K. De, A. Farbin, **G. Záruba**, "Next Generation Workload Management and Analysis System for Big Data", DOE-CS, total award:$1.7M UTA:$704,488, awarded: August 2012, (from 09/2012-08/2016).
- M. Huber, I. Ahmad, **G. Záruba**, K. Daniel, C. Cason, "REU Site: Research Experiences for Undergraduates in Intelligent Environments for Healthy Living and Aging in Place", NSF-REU, total award: $244,989 ; awarded: 2/2012, for 3 summers.
- D. Schoech, J. Boyes, B. Black, M. Huber, **G. Záruba**, D. Levine, "FunTimes: An Online, Multiuser, Web-smartphone Game for Youth," Carter Foundation, total award: $100,000, funded: January 2011 (to 06/2012).
- C. Cason, M, Huber, K. Daniel, **G. Záruba**, D. Levine, "SmartCare: A Technology Discovery Center for Improving In-Home Health Care," HRSA, total award: $643.5k, awarded: January 2010 until December 2014.
- **G.V. Záruba**, D. Schoech, M. Huber, "Administrative Supplements Request Through the Recovery Act to Parent Grant: 1G08LM009262-01A1 ; Teleherence: Monitoring/Increasing Treatment Adherence via Web Telecommunications," source: NIH-NLM, total award: $66,200 (no indirect), submitted: June 2009, funded: July 2009.
- **G.V. Záruba**, "Discretionary PerCom Travel 2010" source: European Office of Aerospace Research and Development, total award:$5,000, awarded: March 2010
- **G.V. Záruba**, "NSF Student Travel Grant for IEEE PerCom 2009," source:NSF-NeTS, total award:$25,000, awarded: January 2009.
- J. Priest, **G.V. Záruba**, Y. Lei, D. Levine, M. Huber, "Logistics, Distribution, and Supply Chain Research and Technology Demonstration Project," source: Arlington Chamber of Commerce Foundation, total award: $227,292 (no indirect), submitted: October 2007.
- M. Wright**,** D. Levine, **G.V. Záruba**, M.Huber, "UTA/TPD Proposal for Research and Development in a Software Security Environment," source: TheftProof Data, Inc., Total award: $28,897, submitted: September 2007 (follow-up finding).
- **G.V. Záruba**, M. Huber, D. Levine, F.A. Kamangar, "PLR: Mesh Networked, Two-Way Personnel Locator Radios and Relays," source: National Institute of Justice (NIJ-DoJ) , total award: $264,879 submitted: May 2007.
- **G.V. Záruba**, M.Huber, M. Wright, D. Levine, "UTA/TPD Proposal for Research and Development in a Software Security Environment," source: TheftProof Data, Inc., Total award: $64,528, submitted: April 2007.
- **G.V. Záruba**, D. Schoech, F.A. Kamangar, M. Huber, D. Levine, "Teleherence: Monitoring/Increasing Adherence via Web Telecommunications," source: NIH-NLM, total award: $404,870 (no indirect), submitted: July 2006, funded: April 2007.
- **G.V. Záruba**, "ONR Faculty Summer Research Fellowship," source: ONR-ASEE, total award: personal expenses for the summer, does not go through UTA (about $20,000), submitted: November 2006, funded: February 2007.
- **G.V. Záruba**, M.Huber, F. Kamangar, Roger Walker, J.C. Chiao, Daniel Engels, "SMT (Surface Mount Technology) Prototyping Workstation," source: CoE-REF, amount: $25,733, submitted February 2007, funded: March 2007.
- M. Huber, I. Ahmad, **G.V. Záruba**, J.C. Tiernan, "REU-Site: Research Experiences for Undergraduates in Information Processing and Decision Making for Intelligent and Secure Environments" source: NSF-REU, total award: $281,614, submitted: August 2006, funded: February 2007.
- F.A. Kamangar, **G.V. Záruba**, M. Huber, D. Levine, "Remote Monitoring and Control of Sensor/Actuator Nodes in Cellular Networks," source: Sensor Logic, Inc., total award: $85,122, duration: 03/01/06-08/31/07, submitted: February 2006, funded: March 2006.

- F.A. Kamangar, **G.V. Záruba,** D. Levine, M. Huber, D. Schoech, S.K. Das, M. Kumar, D. Cook, K. Varghese, J. Smith, "Connect – A Personal Remote Messaging and Monitoring Infrastructure for Persons With Disabilities," source: Texas Health and Human Services Commission, total award: $2,112,000, duration: 01/01/03-08/30/05, submitted: October 2002, funded: September 2003.
- S. Chakravarthy, L. Holder, A. Aslandongan, , S. Das, J. Yu, **G.V. Záruba,** K. De, D. Levine, F. Kamangar, M. Kumar, J. Oh, "Acquisition of High Performance Distributed Computing and Storage Infrastructure at UTA," source: NSF-MRI, total award: $950,000, duration: 09/01/02-08/31/03, Awarded: September 2002.
- **G.V. Záruba**, D. Levine, K. De, "University Partner Program (IxUPP) Equipment Donation," source: IXIA Partner Program, total donation is approximated at $120,000, awarded: September 2002.
- **G.V. Záruba**, "Constructing Bluetooth Enabled Ad Hoc Networks," source: UTA-REP, total award: $10k, duration 09/01/02-08/31/03, awarded: September 2002.

Programming and Computer Skills:

- Advanced programming skills in C, C**++**, and Pascal
- Linux , Solaris, Windows 9x, Windows 7, XP administration experience
- Matlab, NS2, Opnet Modeller/Planner, program package knowledge
- Intel 8051, PIC, TI MSP430 micro-controller programming
- HTML – web design, PHP, Python, Perl
- Familiar with languages: Python, SQL, Ada, Prolog, Basic, SML, and 80386 assembly

Interests and Activities:

- Playing with own children.
- Enjoy many sports such as martial arts, soccer, table tennis, and swimming.
- Interests in mechanics, history, politics, music, stock market and investing.
- Hobbies include repair of electronic equipment, motorcycle - automobile repair, cars of the 60s, 70s, and 80s, and wood and metal works.

Student Advisees

Ph.D. Students:

- Victor Govindaswamy, graduated: 2006 Fall
- Rui Huang, graduated: 2006 Fall
- Aaron Thengkok Thor, graduated 2009 Summer
- Fawaz Bokhari, graduated: 2012 Spring
- Sudhamsh Reddy, graduated: 2013 Spring (co-supervised with M. Huber)
- Mikhail Titov, expected graduation: 2015
- Chance Eary, expected graduation: 2016 (co-supervised with M. Kumar)
- Nicholas "Brent" Burns, expected graduation: 2018 (co-supervised with M. Huber)
- Zahra "Mitra" Anvari, expected graduation: 2019
- Md. Samiul Arshad , expected graduation 2020

Master Students:

- Kumaran Sambandan, thesis, graduation: 2003 Summer
- Deepak Jayanna, thesis, graduation: 2003 Summer
- Karthi Keyan, project, graduation: 2003 Spring
- Jyothsna Kalvala, thesis, graduation: 2003 Fall
- Suresh Pallikondan, thesis, graduation: 2004 Spring
- William Wallace, thesis, graduation: 2007 Fall
- Iqbal Awais, thesis, graduation: 2009 Spring

- Vijay Dixit, thesis, graduation: 2008 Fall
- Mirza Elahi, thesis, graduation: 2008 Fall
- Peter Sassaman, expected graduation: 2018 Spring
- Arjun Mani Gupta, expected graduation: 2018 Spring

Publications

- **Journals/Magazines/Book Chapters**

J1. A. Asudeh, S.K. Das, G. Záruba, "**A General Model for MAC Protocol Selection in Wireless Sensor Networks**," Elsevier Ad Hoc Networks, vol. 36, pp. 189-202., January 2016.

J2. V. Govindaswamy, G. Záruba, G. Balasekaran, "**Mathematical Modeling of the RED-RWM Active Queue Management Scheme**," *International Journal of Networks and Communications*, vol. 4 (1), March 2014.

J3. M. Elahi, K. Rajpurohit, J. Rosenberger, G. Záruba, J. Priest, "**Optimizing Real-Time Vehicle Sequencing of a Paint Shop Conveyor System**," *OMEGA- The International Journal of Management Science, vol. 55, Issue C, pp. 61-72.*.

J4. V. Govindaswamy, G. Záruba, "**Easing Congestion in Computer Networks using Receiver-Window Modification (RWM) Scheme**," *International Journal of Networks and Communications*, vol. 2 (5), September 2012.

J5. F. Bokhari, G. Záruba, "**On the Use of Smart Ants for Efficient Data Forwarding in Wireless Mesh Networks**," *The International Journal of Wireless and Mobile Networks*,vol. 4 (2), pp. 117-134, 2012.

J6. M. Titov, G. Záruba, A. Klimentov, K. De, for the ATLAS collaboration, "**A Probabilistic Analysis of Data Popularity in ATLAS Data Caching**," *Journal of Physics: Conference Series*, Vol. 396, Part 3, 2012 (journal version of C9).

J7. F. Bokhari, G. Záruba, "**Partially Overlapping Channel Assignments in Wireless Mesh Networks**," *Wireless Mesh Networks - Efficient Link Scheduling, Channel Assignment and Network Planning Strategies*, Andrey V. Krendzel (Ed.), ISBN: 978-953-51-0672-2, InTech, 2012

J8. R. Huang, G.V. Záruba, "**Monte-Carlo Localization of Wireless Sensor Networks with a Single Mobile Beacon**," *ACM/Springer Journal of Wireless Networks, ISSN: 1022-0038 (print) 1572-8196 (online)*, vol. 15 (8), pg. 978, November 2009.

J9. R. Huang, G.V. Záruba, S.K. Das, "**Device Localization in Ubiquitous Computing Environments,**" *Advances in Ubiquitous Computing Environments*, IGI Global Publishers, March 2008.

J10. R. Huang, G.V. Záruba, "**Incorporating Multiple Sensory Data for Mobile Ad Hoc Networks Localization**," *IEEE Transactions on Mobile Computing*, vol. 6 (9), pp. 1090-1104, September 2007.

J11. R. Huang, G.V. Záruba, "**Location Tracking in Mobile Ad Hoc Networks using Particle Filters**," *Elsevier Journal of Discrete Algorithms, vol. 5 (3), September 2007*.

J12. G.V. Záruba, F.A. Kamangar, M. Huber, and D. Levine, "**CONNECT – A Personal Remote Messaging and Monitoring System to Aid People with Disabilities,**" *IEEE Communications Magazine*, pp. 101-109, September, 2005.

J13. G.V. Záruba, M. Huber, F.A. Kamangar, and I. Chlamtac, "**Indoor Location Tracking Using RSSI Reading from a Single Access Point**," *ACM/Springer Journal of Wireless Networks (WINET)*, vol. 13:2 April 2007.

J14. F.A. Kamangar, D. Levine, G.V. Záruba, and R. Thomas, "**Mobile Agent Connection Establishment and Management (CEMA) - Message Exchange for Pervasive Computing Environments**," *Journal of Supercomputing*, vol. 31 (1), pp. 79-99, Jan, 2005.

J15. G.V. Záruba, and S.K. Das, "**Off-the-Shelf Enablers of Ad Hoc Networks**," *2nd Chapter of: Ad Hoc Networking*, IEEE Press and John Wiley and Sons, Inc., New York, August 2004. Basagni, M. Conti, S. Giordano, and I. Stojmenovic, editors. ISBN: 0471373133

J16. A.D. Myers, V.R. Syrotiuk, and G.V. Záruba, "**An Adaptive Generalized Transmission Protocol for Mobile Ad Hoc Networks,**" *ACM/Kluwer Journal on Mobile Networks and Applications (MONET)*, vol. 7, 493-502, 2002.

J17. G.V. Záruba, I. Chlamtac, and S.K. Das, "**A Prioritized Real-Time Wireless Call Degradation Framework for Optimal Call Mix Selection,**" *ACM/Kluwer Journal of Mobile Networks and Applications (MONET)*, vol. 7, nr. 2, pp 143-151, April 2002.

J18. A. Faragó, A.D. Myers, V.R. Syrotiuk, and G.V. Záruba, "**Meta-MAC Protocols: Automatic Combination of MAC Protocols to Optimize Performance for Unknown Conditions,**" *IEEE JSAC, special issue on: Analysis and Synthesis of MAC Protocols*, vol. 18, no. 9, pp. 1670-1682, September, 2000.

- **Conferences**

C1. N. Burns, P. Sassaman, M. Huber, K. Daniel, G. Záruba, "PESTO: Data Integration for Visualization and Device Control in the SmartCare Project," In the proceedings of the PASTA Workshop, IEEE International Conference on Pervasive Computing and Communications, pp 409-414, March 2016.

C2. A. Asudeh, G. Zhang, N. Hassan, C. Li, G.Záruba, "Crowdsourcing Pareto-optimal Object Finding by Pairwise Comparisons," Proceedings of the 24th ACM International Conference on Information and Knowledge Management, Melbourne, Australia, October 19-23, 2015.

C3. K. Farkas, G. Záruba, "IEEE PerCom 2014 Conference in Budapest, Hungary," IEEE Communications Magazine, Conf. Report, pp. 2-4, October 2014.

C4. F. Bokhari, G.Záruba, "i-POCA: Interference-aware Partially Overlapping Channel Assignment in 802.11-based Meshes," 5th IEEE International Workshop on Hot topics in Mesh Networking (IEEE HOTMESH), Madrid, Spain, June 4th, 2013.

C5. C. Eary, M. Kumar, G. Záruba, "DiTON: Towards Facilitating Distributed Transactions in Opportunistic Networks," *To appear in the Proceedings of the IEEE International Conference on Pervasive Computing and Communications (PerCom 2013) Work in Progress*, San Diego, CA, March ,2013.

C6. K. De, A. Klimentov, S. Panitkin, M. Titov, A. Vaniachine, T. Wenaus, D. Yu, G. Záruba, "PanDA: Next Generation Workload Management and Analysis System for Big Data," *Supercomputing, in the proceedings of The International Conference for High Performance Computing Networking, Storage, and Analysis (SC12)*, Salt Lake City, Utah, November, 2012.

C7. S. Reddy, G. Záruba, M. Huber,"**A Game Theoretic Framework for Communication in Fully Observable Multiagent Systems**," *To appear in the Proceedings of The IEEE 11th International Conference on Machine Learning and Applications (ICMLA 2012),* Boca Raton, Florida, December 12-15, 2012.

C8. S. Reddy, V. Gopikrishna, G. Záruba, M. Huber,"**Inverse Reinforcement Learning for Decentralized Non-Cooperative Multiagent Systems**," *To appear in the Proceedings of the 2012 IEEE International Conference of Systems, Man, and Cybernetics*, Soul, Korea, October 14-17, 2012.

C9. M. Titov, G. Záruba, A. Klimentov, K. De, for the ATLAS collaboration, "**A Probabilistic Analysis of Data Popularity in ATLAS Data Caching**," *Proceedings of The International Conference on Computing in High Energy and Nuclear Physics (CHEP)*, New York, NY, May, 2012.

C10. J. Davies, F. Kamangar, G. Záruba, M. Huber, V. Athitsos, "**Use of RSSI and Time-of-Flight Wireless Signal Characteristics for Location Tracking**," *Proceedings of the 4th International Conference on Pervasive Technologies Related to Assistive Environments,* Crete, Greece, May 25-27, 2011.

C11. F. Bokhari, G.V. Záruba, "**AntMesh: An Efficient Data Forwarding Scheme for Load Balancing in Multi-Radio Infrastructure Mesh Networks,**" *Proceedings of the Fourth IEEE International Workshop on Enabling Technologies and Standards for Wireless Mesh* Networking, San Francisco, November 8, 2010.

C12. A. Iqbal, L. Zhou, M. Huber, G.V. Záruba, "**Optimizing Trajectories of Mobile Beacons to Localize Sensor Networks** ," *Proceedings of the 3rd International Conference on Pervasive Technologies Related to Assistive Environments,* Samos, Greece, June 23-25, 2010.

C13. J. Michopoulos, G.V. Záruba, "**A Portable Computational Cluster for Modeling and Simulation**", *Proceedings of the ASME IDETC/CIE 2009* (American Society of Mechanical Engineers Design Engineering Technical Conferences and Computer Information in Engineering Conference), San Diego, CA, August 30 – September 3rd, 2009.

C14. V. Govindaswamy, G.V. Záruba, G. Balasekaran, "**Receiver Window Modified Random Early Detection Queues with Rechoke**," *Proceedings of the IEEE Canadian Conference on Electrical and Computer Engineering*, Newfoundland, Canada, May 3-6, 2009.

C15. F. Bokhari, G.V. Záruba, "**AMIRA: Interference-aware Routing Using Ant Colony Optimization in Wireless Mesh Networks**," *Proceedings of the 2009 IEEE Wireless Communications and Networking Conference (WCNC2009)*, Budapest, Hungary, April 5-8, 2009.

C16. A.T. Thor, G.V. Záruba, D. Levine, K. De, T.J. Wenaus, "**VIGs: A Grid Simulation and Monitoring Tool for ATLAS Workflows**," *Proceedings of Many-Task Computing on Grids and SuperComputers (MTAGS), ACM/IEEE SuperComputing'08*, November, 2008.

C17. D. Ramachandran, A. Maiti, G. Mwangi, M. Huber, D. Levine, F. Kamangar, R. Schoech, and G.V. Záruba, "**Technology to Help Patients Adhere to Treatment Plans – A Brief Introduction to the Teleherence Project**," *Proceedings of the Biotechnology and Bioinformatics Symposium (BIOT-2008)*, Arlington, Texas, October 17-18, 2008.

C18. V. Govindaswamy, G.V. Záruba, G. Balasekaran, "**Analyzing the Accuracy of Choke Hits, Choke Misses, and Choke-Red Drops**," *Proceedings of the IEEE Conference on Electrical and Computer Engineering (CCECE'08)*, Niagara Falls, Ontario, May 4-7, 2008.

C19. T. Nivas, G.V. Záruba, "**On the Upper Bound of Sensor Network Lifetime – A Flow Optimization Approach**," *Procedings of the ACM Grace Hopper Celebratory Conference for Women in Computing*, October 17-20, Orlando, FL, 2007.

C20. V. Govindaswamy, G.V. Záruba, G. Balasekaran, "**RECHOKe: A Scheme for Detection, Control, and Punishment of Malicious Flows in IP Networks**," *Proceedings of the IEEE Global Communications Conference (Globecom 2007), Washington, D.C., November 26-30*, 2007.

C21. R. Huang, G.V. Záruba, "**Complexity and Error Propagation of Localization Using Interferometric Ranging**," *Proceedings of the IEEE International Conference on Communications (ICC2007)*, pp. 3063-3069, Glasgow, UK, June 24-28, 2007.

C22. R. Huang, G.V. Záruba, "**Beacon Deployment for Sensor Network Localization**," *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC2007)*, pp. 3188-3193, Hong Kong, HK, March 11-15, 2007.

C23. R. Huang, G.V. Záruba, "**Static Path Planning for Mobile Beacons to Localize Sensor Networks,**" *Workshop Proceedings of the IEEE Pervasive Computing and Communications 2007 (PerCom2007), International Workshop on Sensor Networks and Systems for Pervasive Computing*, pp. 323-330, New York, NY, March 19-23, 2007.

C24. A.T. Thor, G.V. Záruba, D. Levine, "**A Broker and Job Advertisement Based Grid Scheduling Framework,"** *Proceedings of the Parallel and Distributed Computing Systems Conference (PDCS 2006)*, Dallas, Texas, November 13-15, 2006.

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