THOMAS F. LA PORTA
207 Electrical Engineering West
The Pennsylvania State University
University Park, PA 16802
tlp@cse.psu.edu
814-865-6725

Highlights

Director, School of Electrical Engineering and Computer Science. Evan Pugh Professor and William E. Leonhard Chair Professor. IEEE Fellow and Bell Labs Fellow. Received an Eta Kappa Nu Outstanding Young Electrical Engineer Award (one of three awarded), Bell Labs Distinguished Technical Staff Award, and four best paper awards. Founding Editor-in-Chief of *IEEE Transactions on Mobile Computing* and past Editor-in-Chief of *IEEE Personal Communications*. Founding Director of the Institute of Networking and Security Research at Penn State. Previously Director of both the Mobile Networking Research in Bell Labs Research and the Advanced Mobile Networking in the Wireless Business Unit of Lucent. Co-inventor on 38 patents related to telecommunications, including two that won the Thomas Alva Edison Patent Award.

Education

1992 Ph.D., Electrical Engineering, Columbia University, New York, NY
1987 M.E., Electrical Engineering, The Cooper Union, New York, NY
1986 B.E., Electrical Engineering, The Cooper Union, New York, NY

Employment

2016	Director, School of Electrical Engineering and Computer Science, Penn State
2016-	Evan Pugh Professor, Computer Science and Engineering, Penn State
2014-	Director, Semantically-Aware Quality of Information-Aware Networking Thrust, Network Sciences Collaborative Technology Alliance (five year renewal of award directly below)
2009-14	Director, Collaborative Technology Alliance Network Sciences Communications Network Academic Research Center (awarded $35M grant to lead a major network sciences research center sponsored by the U.S. Army Research Lab)
2012-	William E. Leonhard Chair in Engineering, Computer Science and Engineering, Penn State
2007-	Distinguished Professor, Computer Science and Engineering, Penn State
2006, 2009	Distinguished Researcher, University of Roma La Sapiena (Su 06, Sp 09)
2002-06	Professor, Computer Science and Engineering, Penn State
2002-	Founding Director, Institute of Networking and Security Research (formerly Networking and Security Research Center, Ben Franklin Center of Excellence), Penn State. Founded center that currently includes faculty from the College of Engineering, Smeal College of Business, Dickinson

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	Law School, Great Valley Campus, Applied Research Lab, and the College of Information Sciences and Technology. Members have received more than $30M in new funds since 2006.
2000-02	Director, Advanced Mobile Networking Department, Wireless Networks Group, Lucent Technologies (concurrent with below)
1997-02	Director, Mobile Networking Research Department, Bell Laboratories Research, Lucent Technologies
1991-97	Distinguished Member of Technical Staff/Member Technical Staff, Bell Laboratories Research, Lucent Technologies
1986-91	Member Technical Staff, Network Performance Center, AT&T Bell Labs

Consulting

2022 *DLA Piper – on behalf of Applie*
Consulted on three IPRs related to mobile data systems. Wrote and was deposed on three declarations.

2021-22 *Duane Morris – on behalf of Metaswitch C.A. No. 17-1736-RGA-SRF*
Consulted on VoIP switching technology, wrote reports.

2020 *Haynes and Boone – on behalf of Google*
Pre-IPR consulting on telephony systems.

2019 *EriseIP – Apple Inc. v. Maxell LTD, Case IPR2020-00201, on behalf of Apple*
Consulting on systems for wireless electronic displays and control, wrote declaration with respect to IPR. Deposed on declaration.

2017-18 *Sidley – Huawei Technologies v. Samsung Electronics v. HiSilicon, N.D. California. Civil Action No. 3:16-cv-2787-WHO, on behalf of Samsung*
Consulting on cellular telecommunications systems on 2 patents. Wrote infringement, validity, non-infringement and invalidity reports, deposed.

2017 *Ropes and Gray - Nokia Technologies Oy & Alcatel-Lucent USA Inv. v. Apple Inc. (E.D. Tex. Civil Action Nos. 2:16-cv-144 and 2:16-cv-1441, on behalf of Apple*
Consulting on cellular communication systems.

2015-17 *Sidley - Intellectual Ventures LLC v. AT&T Mobility, et al Civil Action No. 12-cv-193-LPS, on behalf of US Cellular*
Consulting on cellular communication systems. Wrote report on invalidity. Deposed on report.

2016-17 *Duane Morris - Patent Asset Licensing, LLC v. WideOpenWest Finance, LLC et al., Case No. 3:15-cv-743-J-32MCR*
Wrote declarations with respect to IPRs for three patents. Deposed on declarations.

2014 *Sidley Austin – on behalf of Apple*
Consulting on cellular communication systems. Wrote declarations with respect to IPRs for three patents.

2012-14 *Winston Strom - Prism Technologies LLC v. Cellco Partnership d/b/a Verizon Wireless No. 8:12-cv-126-LES-TDT, on behalf of Verizon*
Consulting on secure transaction systems. Wrote report with respect to non-infringement.

2015 *Haynes Boone*
Consulted on patents with respect to signaling in cellular systems

2015 *Duane Morris AIP Acquisition, LLC v. Verizon Services Corp., et al., Case No. 1:14-cv-516-GMS, on behalf of Verizon*
Wrote declarations with respect to IPRs for two patents.

2011-2012: *Sidley Austin (EON vs. T-Mobile et al) Case No. 6:10-CV-379-LED-JDL, on behalf of RIM*
Consulted on telecommunications systems. Wrote expert report with respect to non-infringement. Deposed on report.

2009-2014: *Hogan Lovells (High Point SARL vs. Sprint Nextel Corp) Case No. 09-2269-CM-DJW, on behalf of Sprint*
Consulted on cellular telecommunications equipment. Deposed with respect to declaration on claim construction. Presented tutorial to court appointed Special Master. Testifed as expert witness at Markman hearing. Wrote declarations with respect to inventorship, deposed twice on declarations.

2011 – 2012: *Nixon Peabody*
Consulted on cellular telecommunication systems.

2009 – 2010: *Goodwin Proctor*
Consulted on hybrid circuit/packet switched systems for voice communication. Deposed on expert report with respect to validity.

2009-2010: *Crowell and Moring*
Consulted on patent litigation for wireless messaging systems.

2007 - 2009: *Goodwin Proctor*
Consulted on cellular telecommunications systems. Deposed on expert report with respect to validity.

2007 - 2008: *Moses and Singer*

Consulted on patent litigation regarding secure data access.

2007: *Latham*
Consulted on patent litigation regarding telecommunications systems.

2006 – 2007: *Kirkland and Ellis*
Consulted on patent litigation regarding cellular services and Internet telephony (two clients).

2005-2006: *Moses and Singer*
Consulted on patent litigation regarding smart card technology. Deposed on expert reports regarding infringement and validity.

2005-2006: *Fish and Richardson*
Consulted on two patent litigations regarding security in cellular networks (2G and 3G), and WiFi, WiMax, 3G networks; evaluated one patent on wireless technology.

2005-2006: *Howrey*
Consulted on patent litigation regarding packet multimedia telephony and wireless technology. Deposed on expert report with respect to claim construction.

Honors and Awards

- **Evan Pugh Professor,** 2016, Penn State University (top 1% of faculty)
- **Faculty Teaching Award,** 2014, Dept. of Computer Science and Engineering
- **William E. Leonhard Chair in Engineering**, 2012
- **Thomas Alva Edison Patent Award,** 2009, Multiple-protocol home location register and method of use
- **Distinguished Professor**, 2007
- **IEEE Computer Society Golden Core Member,** 2005, for being a distinguished volunteer
- **Thomas Alva Edison Patent Award,** 2005, Wireless Packet System for Efficient Wide Area Bandwidth Utilization
- **IEEE Computer Society Meritorious Service Award,** 2004, for outstanding service as Editor-in-Chief of IEEE Transactions on Mobile Computing
- **IEEE Fellow,** 2002, to contributions to systems for advanced broadband, mobile data and mobile telecommunication networks
- **Bell Labs Fellow,** 2000, for outstanding contributions in mobile wireless networks in the areas of call processing, signaling, mobility management, and applications
- **An Eta Kappa Nu Outstanding Young Electrical Engineer Award** (one of three awarded), 1996
- **Bell Labs Distinguished Staff Award,** 1996, for outstanding research in call processing
- **Keynote talks,** IEEE ICDCS, IEEE MASS, IEEE ICCCN

- **Six best paper awards** (IEEE ISSLS 1993, IEEE BSS 1995, IEEE ISSLS 1996, IEEE ICNP 2010, ACM Symposium on SDN Research 2017, SECURECOMM 2018)

Professional Service

Editorships

2006-08	Editor-in-Chief, IEEE Applications of Practice Magazine
2003-04	Technical Editor, ACM Mobile Communications Review
2001-04	Founding Editor-in-Chief, IEEE Transactions on Mobile Computing
2000-10	Senior Advisor, IEEE Personal Communications Magazine
2000-05	Technical Editor, KICS/IEEE Journal of Communications and Networks
1997-99	Editor-in-Chief, IEEE Personal Communications Magazine
1995-10	Associate Editor, ACM/Kluwer Journal on Wireless Networks
1995-10	Associate Editor, ACM/Baltzer Journal of Mobile Networks and Applications
1993-96	Technical Editor, IEEE Personal Communications Magazine

Professional Societies and Associations

2013	Chair, IEEE Computer Society Transactions on Mobile Computing EiC Search Committee
2007-09	Member, Board of Governors, IEEE Communications Society
2006-07	Director of Magazines, IEEE Communications Society
2005-10	Steering Committee Member, IEEE/ACM Transactions on Networking (Co-chair, 2007)
2005-	Steering Committee Member, IEEE Transactions on Mobile Computing (Chair, 2008-10)
2005	IEEE Computer Society Golden Core Member
2004-06	The President's National Security Telecommunications Advisory Committee (NSTAC)
2003	Chair, IEEE Computer Society Pervasive Computing EiC Search Committee
2003-	ACM Member
1984-	IEEE (Fellow, 2002)

Conference Committees

2013	General Chair, ACM Workshop on Mission Oriented Sensor Networks (MiseNet 2013)
2011	General Co-Chair, IEEE International Conference on Network Protocols (ICNP 2011)
2009	Program Co-Chair, Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)
2009	Co-Chair, NSF Workshop on Future Directions of Wireless Sensor Systems
2008	Chair, NSF Workshop on Wireless Security, Atlanta, GA
2008	General Chair, IEEE Mobile Ad-hoc and Sensor Systems (MASS 2008)
2007	Program Chair, Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2007)
2006	General Co-Chair, International ICST Conference on Mobile and Ubiquitous

	Systems (MobiQuitous 2006) (sponsored by IEEE, ICST, and ACM)
2005	General Co-Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 2005)
2004	Program Co-Chair, IEEE International Conference on Network Protocols (ICNP 2004)
2004	Program Co-Chair, International ICST Conference on Mobile and Ubiquitous Systems (MobiQuitous 2004) (co-sponsored by IEEE and ACM)
2004	Tutorial Chair, Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2004)
2003	Co-Chair, NSF Workshop on Wireless Networks
2001	Panel Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 2001)
2000	Panel Chair, IEEE International Conference on Network Protocols (ICNP 2000)
1997	Tutorial Chair, IEEE INFOCOM 1997
1997	Tutorial Chair, IEEE International Conference on Network Protocols (ICNP 1997)
1996	Vice-Chair, Annual International Conference on Mobile Computing and Networking (MobiCom 1996)

Research Programs

Network Science:

Director and overall PI of the Communications Network Academic Research Center funded by the U.S. Army Research Lab leading a team of 23 PIs and 9 institutions (Penn State (prime), USC, UC Davis, UC Santa Cruz, CUNY, UC Riverside, North Carolina State, Stanford and Raytheon BBN). Awarded five year renewal; now Director of Semantically-Aware Quality-of-Information Aware Networking Thrust, 25% of overall $135M Army Research Lab Network Science project. To date research contributions include:

- Defining and formalizing a metric called Quality of Information which allows requestors of information to specify characteristics of the information they require to make decisions, and then enable network algorithms to provide data transport and security services to meet these requirements. Work transitioned to Harris Corp.
- Defined, formalized and modeled a new measure of network capacity called the Operational Information Content Capacity (OICC) which measures the amount of information of sufficient quality carried by a network.
- Working with computational linguistics researchers, defined algorithms for optimal information retrieval strategies given uncertainty of query requirements based on pragmatic query transformation.
- Developed new general models to determine network scalability accounting for realistic network configurations and application-specific quality of information requirements.
- Developed algorithms for resource allocation in highly dynamic wireless environments for extracting information of specified quality from stored video.

Leading Defense Threat Reduction Agency (DTRA) funded effort on network reliability jointly with Army Research Lab. To date research contributions include:

- Defined new algorithms for diagnosing large-scale network failures based on partial information of network endpoint connectivity.
- Defined new algorithms for minimum cost network restoration given mission critical applications that must be supported.
- Developed models for the spread of failures between multiple networks with different structures, determining topologies and interconnect architectures that slow and speed the spread between networks; won best student poster at DTRA PI meeting.
- Developed algorithms to infer a network topology based on partial information; resulting algorithm performed significantly better than competing solutions in terms of network metrics.

Network Security:

Co-PI on a $48M 10-year science of cyber security program funded by the Army Research Lab. To date contributions include:

- Developed algorithms to prevent malicious users from detecting the migration of a virtual machine between servers. The algorithms prevent timing analysis attacks by making packet inter-arrival time statistics and the distribution of overall response time delays mathematically indistinguishable from normal traffic.

Wireless Sensor Networks:

Leader of the Sensor Information Processing and Delivery Technical Area of the U.S. ARL and U.K. MoD 10-year joint International Technology Alliance (ITA) program for five years, and currently Project Champion. Also partially funded by NSF. To date research contributions include:

- Developed algorithms for resource allocation given statistical uncertainty of the value of future observations, the exact resources consumed by future tasks, and the uncertainty of event of interest that will occur. This work is being featured at the ITA capstone event.
- Algorithms to formalize information needs and allocate sensing and communications resources to meet these needs. Work has been transitioned into both the U.S. Army and U.K, MoD.
- Algorithms and protocols to optimally allocate resources in a multi-hop wireless sensor networks to maximize network utility including in-network data transformations.
- Algorithms based on Voronoi and Laguerre geometry to move sensors to increase network coverage and recover from node failure.
- Key distribution algorithms to ensure secure sensor communication. Submitted to IEEE 802.11 standards group by partnering company (3ETI).

Mobile Telecommunication Networks:

Leading research on signaling, call processing, mobility management, security, and hybrid wireless solutions for cellular telecommunication systems. Funded by NSF and ARO. Contributions include:

- Tools and algorithms for ensuring security in wireless telecommunication networks. Feature article in *NY Times* business section, October 2005. Appointed to The President's National Security Telecommunications Advisory Committee.
- Develop lightweight protocol interworking algorithms that led to the industry's first system supporting seamless global roaming between U.S. and international standards, and WiFi networks. Resulted in product deployed in Lucent-built third generation wireless networks and currently supports more than 100 million subscribers. Team consisted of 8 researchers and up to 50 developers. Won Bell Labs President's Gold Medal and Thomas Alva Edison Patent Award.
- Distributed software control architectures based formal decomposition of functions and data structures that drastically reduced data movement and signaling overhead in mobile environments. Led to network controllers deployed in CDMA2000 and UMTS networks.
- An IP-based mobile switching center with new efficient mobility management and signaling protocols. This was the first "soft-switch" which is now a standard part of all Internet-telephony and third generation wireless systems. Awarded Thomas Alva Edison Patent Award.
- Multiclass algorithms and software for signaling overload control for wireless call processing. Deployed in CDMA2000 mobile switching centers.
- Architecture and protocols for forming and managing hybrid wireless networks that maintain signal orthogonality and support diversity to improve wireless network performance.

Mobile Wireless Data Systems:

Leading research on network architectures, protocol design, and software systems to enable all-IP mobile networks. Funded by NSF. Contributions include:

- Algorithms and protocols to preserve location privacy while enabling the use of network-based location-based services.
- A novel architecture, service-set, and protocols for web access and messaging services from traditional cellular handsets. Led to initial text messaging products from Lucent Technologies.
- Algorithms for optimal rate control and resource allocation for networks that employ network coding.
- Algorithms for enabling secure and highly scalable RFID networks.
- Security solutions that enable network-based performance enhancements
- Micromobility protocol (HAWAII) and IP paging services. Led to formation of a working group at the Internet Engineering Task Force.
- Security protocols application support to enable 802.11/3G roaming. Led to product offering from Lucent Technologies.

- An asymmetric link layer protocol (AIRMAIL) designed specifically for wireless links. Incorporated into CDMA2000 standards.

Software for Telecommunication Network Control:

Led and participated in several projects on call processing and service control for ISDN and B-ISDN networks.

***Ph.D. Research* (advised by Prof. Mischa Schwartz)**

MultiStream Protocol (MSP): Designed, validated, and implemented a new feature-rich high-speed transport protocol on a parallel processor platform.

Students

Advising 7 Ph.D. students; graduated 17 Ph.D. students, 16 M.S. students, and 4 Honors students.

Grants

CPS: Medium: Coupled cAscade Modeling, Prevention, and Recovery, Co-PI (PI: Chaudhuri, Co-PI: He), NSF, $999,000, 2018-20

CSR: Small: Energy-Aware and QoE-Aware Video Streaming on Mobile Devices, Co-PI (PI: Cao), NSF, $, 2018-20.

International Technology Alliance, Distributed Analytics Information Sciences (DAIS), US Army Research Lab & UK Ministry of Defence, PI, $1.6M, 9/16–9/21. (One of 6 project leads on team of 14 partners including industry and academia, Prime: IBM).

International Technology Alliance (CONCERTO), Network and Information Sciences International Technology Alliance, US Army Research Lab & UK Ministry of Defence, PI, $2.5M, 5/06–5/14. (One of 4 technical area leads on team of 12 partners including industry and academia, Prime: IBM).

Collaborative Technology Alliance Network Sciences Communications Network Academic Research Center, Overall PI and Center Director ARL, $35M, 2009–2018 (renewed in 2014). (Penn State Amount for 9/08–9/16 is $7.7M).

HDTRA1-10-1-0085: State Estimation and Optimal Recovery in networks with Massive Cascading Failures – Topic D: Network Adaptability from WMD Disruption and Cascading Failures, PI (Co-PI: Cao and Swami [US-ARL]), Defense Threat Reduction Agency, (option years added in 2014) $1,650,000, 8/10–5/16.

Collaborative Research Alliance, Co-PI (PI: McDaniel), ARL, up to $48M ($600K for candidate), 2013–2022.

Wireless Network Defense, PI, DARPA (sub to Lockheed Martin), $150,000, 2013–2014.

MANET and DTN Routing for Tactical Networks, PI (Co-PI: Cao), CERDEC, $175,000, 2013–2014.

Small: Efficient Energy-Aware Web Browsing in Wireless Networks, Co-PI (PI: Cao), NSF, $499,368, 2012–2015.

QoI-Aware Named Data Networking, PI, Harris Corp, $50,000, 2012–2013.

Student Travel Support for IEEE ICNP, PI, NSF, $10,000, 2011.
Aqua – QoI-Aware client, co-PI (PI: Govindan, USC), US-Army Research Lab, $50,000, 2011–2012.
Harnessing Network Coding Gains in Multi-Rate Wireless Networks, PI (PI: Krishnamurthy, UC Riverside), NSF, $240,000, 2010–2013.
Characterizing and Mitigating Wireless Systems Vulnerabilities, Defense University Research Instrumentation Program (DURIP), Co-PI (PI: McDaniel), Army Research Office (ARO), $150,000, 5/09–5/10.
Supporting Multi-Missions in Wireless Sensor Networks, Co-PI (PI: Cao), NSF, $450,000, 2009–2012.
Collaborative Research: Security Services in Open Telecommunications Networks, Co-PI (PI: McDaniel), NSF, $598,488, 2009–2012.
Secure Supply Chain Management for Telecom, PI (with McDaniel and Shu), Alcatel-Lucent, $110,000, 2009.
Secure 3G/4G Mobility, PI, SPRINT Labs, $55,000, 2008–2009.
Network State Discovery and Analysis in Defense of WMD Attacks, PI, (with Cao), Defense Threat Reduction Agency, $215,000, 2008–2009.
Wireless Mesh with Mobility, PI (with Cao), The Technology Collaborative, $172,000, 8/07–7/08.
ARSENAL: A Cross Layer Architecture for Secure and Resilient Tactical Mobile Ad Hoc Networks," co-PI (PI: Cao), ARO MURI, $780,000, 6/07–5/12.
Wireless Network Security, PI (with Yener and Jaeger), Raytheon, $50,000, 1/07–12/07.
Security for Internet/IMS Convergence, PI (with Jaeger and McDaniel), Cisco URP, $100,000, 2007–2008.
NeTS WN: Protecting Services for Emerging Wireless Telecommunications Infrastructure, PI, NSF, $400,000, 2007–2009.
Ben Franklin Center of Excellence for the Networking and Security Research Center, Director and PI, $175,000, 2007–2009.
Mobile Sensor Systems, PI (with Cao), The Technology Collaborative, $140,000, 7/06–6/07.
Telecommunications Evolution and Security, PI (with Yener and Jaeger), Raytheon, $50,000, 6/06–12/06.
Distributed Adaptive Channelization Control, DARPA CBMANET Program, PI (with Yener), $303,000, 6/06–12/07. (Prime: BAE Systems CONCERTO Project).
Overload Controls for SIP Servers, IBM Faculty Award Program, PI, $30,000, 2006.
NeTS-NOSS: Controllable Node Mobility for Mission-Oriented Sensor Networks, co-PI (PI: Cao, Kesidis, Das), National Science Foundation, $458,000, 9/05–8/09.
Capacity Building Information Assurance, senior personnel (PI: Liu and others), National Science Foundation DUE, $296,466 8/05–7/06.
CRI: Collaborative Research: WORKIT: A Universal Wireless Open Research KIT, PI (with other institutions), National Science Foundation, $124,956, 8/05–7/08.
Efficient Hybrid Security for Networks of Simple Devices, PI (with Cao), The Technology Collaborative, $166,288, 7/05–6/06.
SGER: Exploratory Research on Relay Network of Agile Radios, National Science Foundation, PI (with Yener), $95,018, 3/05–9/06.

Group Mobility Management for Sensors, DARPA/ONR Emerging Surveillance Plexsus (ESP), subcontract with PSU ARL, $72,000, 1/05–12/05.

Mobile Multi-Layered IPSec: Advanced Services, PI (with Cao), The Technology Collaborative, $178,435, 1/05–12/05.

Secure Services in IP-Based Third Generation Wireless Networks, IBM Faculty Award Program, PI, $30,000, 2005.

Student International Travel Support for IEEE International Conference on Networking Protocols (ICNP 2004); October 5-8, 2004; Berlin, Germany, PI, National Science Foundation, $15,500, 9/04–8/05.

Asymmetric Security Solutions for Networks of Simple Devices, PI (with Cao), The Technology Collaborative, $184,000, 7/04–6/05

Group Mobility Management for Sensors, **DARPA/ONR Emerging Surveillance Plexsus (ESP),** subcontract with PSU ARL, $30,000, 5/04–12/04.

Mobile Multi-layered IP Security, PI (with Cao), Pittsburgh Digital Greenhouse, $189,000, 7/03–6/04.

CISCO CIAG Equipment Donation, co-PI (with Liu, Chen), $110,000, 2003.

Journals Publications

1. La Porta, T. F., M. Schwartz. May 1993. The MultiStream Protocol: A Highly Flexible High-Speed Transport Protocol. *IEEE Journal on Selected Areas in Communications* 11(4):519-530.
2. La Porta, T. F., M. Schwartz. December 1993. Performance Analysis of MSP Feature-Rich High-Speed Transport Protocol. IEEE/ACM Transactions on Networking 1(6):740-753.
3. La Porta, T. F., M. Veeraraghavan. 1993. Evaluation of Broadband UNI Signaling Protocol Techniques. *Journal of High Speed Networks* 2(3):209-238. IOS Press.
4. La Porta, T. F., M. Schwartz. February 1994. Verification of the MultiStream Protocol (MSP) Using COSPAN. *Formal Methods in System Design* 4(2):123-153.
5. Veeraraghavan, M., T. F. La Porta. 1994. Object-Oriented Analysis of Signaling and Control in Broadband Networks. *International Journal of Communication Systems* 7:131-148.
6. Ayanoglu, E., S. Paul, T. F. La Porta, K. K. Sabnani. R. D. Gitlin. 1995. AIRMAIL: A Link-Layer Protocol for Wireless Networks. *ACM/Baltzer Wireless Networks Journal* 1(1):47-59.
7. Veeraraghavan, M., T. F. La Porta, R. Ramjee. 1995. A Distributed Control Strategy for Wireless ATM Networks. *ACM/Baltzer Wireless Networks Journal* 1(3):323-339.
8. La Porta, T. F., M. Veeraraghavan, P. Treventi, R. Ramjee. June 1995. Distributed Call Processing for Personal Communications Services. *IEEE Communications Magazine* 33(6):66-75.
9. Veeraraghavan, M., T. F. La Porta, W. S. Lai. November 1995. An Alternative Approach to Call/Connection Control in Broadband Switching Systems. *IEEE Communications Magazine* 33(11):90-97.
10. Ramjee, R., T. F. La Porta, M. Veeraraghavan. December 1995. The Use of Network-based Migrating User Agents for PCS. *IEEE Personal Communications Magazine*. pp. 62-68.
11. La Porta, T. F., K. K. Sabnani, A. S. Sawkar. Autumn, 1996. Distributed Call Processing for Wireless Mobile Networks. *Bell Labs Technical Journal* 1(2):127-142.
12. La Porta, T. F., K. K. Sabnani, R. D. Gitlin. 1996. Challenges for Nomadic Computing: Mobility Management and Wireless Communications. *ACM/Baltzer Journal on Mobile Networks and Nomadic Applications* 1(1):3-16.
13. La Porta, T. F., M. Veeraraghavan, R. W. Buskens. December 1996. Comparison of Signaling Loads for PCS Systems. *IEEE/ACM Transactions on Networking* 4(6):840-856.
14. La Porta, T. F., K-W. Chen. August 1997. A Direct Signaling System for Flexible Access and Deployment of Telecommunication Services. *IEEE/ACM Transactions on Networking* 5(4):489-501.
15. Woo, T., T. F. La Porta, K. K. Sanbani. October 1997. Pigeon: A Wireless Two-Way Messaging System. IEEE Journal on Selected Areas in Communications 15(8):1391-1405.

16. Ramjee, R., T. F. La Porta, J. Kurose, D. Towsley. June 1998. Performance Evaluation of Connection Re-Routing Schemes for ATM-based Wireless Networks. *IEEE/ACM Transactions on Networking* 6(3):249-261.
17. La Porta, T. F., R. Ramjee, T. Woo, K. K. Sabnani. August 1998. Experiences with Network-Based User Agents for Mobile Applications. *ACM/Baltzer Journal of Mobile Networks and Applications* 3(2):123-141.
18. La Porta, T. F. 1999. Signaling. Chapter in *Wiley Encyclopedia of Electrical and Electronics Engineering* 19:276-284. Ed. J. G. Webster.
19. Shah, N., A. Sawkar, J. Marinho, K. K. Sabnani, T. F. La Porta, T. C. Chiang. January-March 2000. Wireless Data Networking, Standards, and Applications. 5(1):130-149.
20. Ramjee, R., T. F. La Porta, L. Salgarelli, S. Thuel, K. Varadhan, L. Li. August 200. IP-Based Access Network Infrastructure for Next Generation Wireless Data Networks. IEEE Personal Communications Magazine 7(4):34-41.
21. Ramjee, R., T. F. La Porta, J. Kurose, D. Towsley. November 2000. User Agent Migration Policies in Wireless Networks. *IEEE Journal of Selected Areas of Communication* 18(11):2465-2489.
22. Lennox, J., K. Murakami. M. Karaul, T. F. La Porta. October 2001. Interworking Internet Telephony and Wireless Telecommunications Networks. *ACM Computer Communications Review* 31(5):25-36.
23. Thuel, S., L. Salgarelli, R. Ramjee, T. F. La Porta. 2002. Dynamic Configuration of Mobile Devices for Wireless Internet Access. *Mobile and Wireless Internet Access*, Chapter 10. Edited by K. Makki. Kluwer Academic Publishers.
24. Ramjee, R., K. Varadhan, L. Salgarelli, S. Thuel, T. F. La Porta. June 2002. HAWAII: A Domain Based Approach for Mobility in Wide-Area Wireless Networks. *IEEE/ACM Transactions on Networking* 10(3):396-410.
25. Ramjee, R., L. Li, T. F. La Porta, S. Kasera. September 2002. IP Paging Service for Mobile Hosts. *ACM/Kluwer Journal on Wireless Networks* 8(5):427-441.
26. Haase, O., K. Murakami, T. F. La Porta. August 2003. Unified Mobility Manager - Enabling Efficient SIP/UMTS Mobile Network Control. *IEEE Wireless Communications* 10(4):66-75.
27. Murakami, K., O. Haase, J. Shin*, T. F. La Porta. June 2004. Mobility Management Alternatives for Migration to Mobile Internet Session-Based Services. *IEEE Journal on Selected Areas of Communications* 22(5):818-833. (Third author supervised by candidate)
28. Yashiro, T., T. F. La Porta. December 2005. Nomadic Agent System: Infrastructureless Location Based Service System. *Journal of Information Processing Society of Japan* 46(12):2952-2962.
29. Wang*, G., G. Cao, T. F. La Porta. June 2006. Movement Assisted Sensor Deployment. *IEEE Transactions on Mobile Computing* 5(6):640-652. (First author co-supervised by candidate)
30. Shin*, J., K. H. Lee, A. Yener, T. F. La Porta. August 2006. On-demand Diversity Wireless Relay Networks. *ACM Journal of Mobile Networks and Applications* 11(4):593-611. (First author supervised by candidate)

31. Wang*, G., G. Cao, P. Berman, T. F. La Porta. May 2007. Bidding Protocols for Deploying Mobile Sensors. *IEEE Transactions on Mobile Computing* 6(5):563-576. (First author co-supervised by candidate)
32. Traynor*, P., R. Kumar*, H. Choi*, G. Cao, S. Zhu, T. F. La Porta. June 2007. Efficient Hybrid Security Mechanisms for Heterogeneous Sensor Networks. *IEEE Transactions on Mobile Computing* 6(6):663-677. (First author co-supervised and second and third authors supervised by candidate)
33. Zhang, W., G. Cao, T. F. La Porta. 2007. July 2007. Data Dissemination with Ring-Based Index for Wireless Sensor Networks. *IEEE Transactions on Mobile Computing* 6(7):832-847.
34. Kotapati*, K., P. Liu, T. F. La Porta. August 2007. Dependency Relation Based Vulnerability Analysis of 3G Networks: Can It Identify Unforeseen Cascading Attacks? *Telecommunications Systems, Special Issue on Security, Privacy and Trust for Beyond 3G Networks* 35(3-4):99-122. (First author supervised by candidate)
35. Zhang, W., G. Cao, T. F. La Porta. October 2007. Dynamic Proxy Tree-Based Data Dissemination Schemes for Wireless Sensor Networks. *ACM/Kluwer Wireless Networks (WINET)* 13(5):583-595.
36. Shin*, J., R. Kumar*, P. Kishen*, T. F. La Porta. November 2007. Channelization for Dynamic Multi-Frequency, Multi-Hop Wireless Cellular Networks. *Ad Hoc Networks Journal* 5(8):1284-1302. (First three authors supervised by candidate)
37. Tonesi, D., Y. Sun*, L. Salgarelli, T. F. La Porta. February 2008. Evaluation of Signaling Loads in 3GPP Networks. *IEEE Wireless Communications* 15(1):92-100. (Second author supervised by candidate)
38. Kumar*, R., R. Crepaldi, H. Rowaihy*, A. Harris, G. Cao, F. Anjum, M. Zorzi, T. F. La Porta. June 2008. Mitigating Performance Degradation in Congested Sensor Networks. *IEEE Transactions on Mobile Computing* 7(6):682-697. (First and third authors supervised by candidate)
39. Choi*, H., H. Song, G. Cao, T. F. La Porta. December 2008. Mobile Multi-Layered IPSec. *ACM/Springer Wireless Networks (WINET)* 14(6):895-913. (First author supervised by candidate)
40. Traynor*, P., W. Enck, P. McDaniel, T. F. La Porta. December 2008. Exploiting Open Functionality in SMS-Capable Cellular Networks. *Journal of Computer Security* 16(6):713-742. IOS Press. (First author co-supervised by candidate)
41. Eswaran*, S., M. Johnson, A. Misra, T. F. La Porta. January 2009. Distributed Utility-Based Rate Adaptation Protocols for Prioritized, Quasi-Elastic Flows. *ACM SIGMOBILE Mobile Computing and Communications Review (M2CR)* 13(1):2-13. (First author supervised by candidate)
42. Traynor*, P., W. Enck, P. McDaniel, T. F. La Porta. February 2009. Mitigating Attacks on Open Functionality in SMS-Capable Cellular Networks. *IEEE/ACM Transactions on Networking* 17(1):40-53. (First author co-supervised by candidate)
43. Sun*, Y., T. F. La Porta, P. Kermani. March 2009. A Flexible Privacy-Enhanced Location Based Services System Framework and Practice. *IEEE Transactions on Mobile Computing* 8(3):304-321. (First author supervised by candidate)
44. Choi*, H., W. Enck, J. Shin*, P. McDaniel, T. F. La Porta. May 2009. ASR: Anonymous and Secure Reporting of Traffic Forwarding Activity in Mobile Ad Hoc Networks. *ACM Wireless Networks (WINET)* 15(4):525-539. (First and third authors supervised by candidate)

45. Venkateswaran, A., V. Sarangan, T. F. La Porta, R. Acharya. June 2009. A Mobility-Prediction-Based Relay Deployment Framework for Conserving Power in MANETs. *IEEE Transactions on Mobile Computing* 8(6):750-765.
46. Kotapati*, K., P. Liu, T. F. La Porta. November 2009. Evaluating MAPSec by Marking Attack Graphs. *Kluwer/ACM Wireless Networks Journal* 15(8):1042-1058. (First author supervised by candidate)
47. Bar-Noy, A., T. Brown, M. Johnson, T. F. La Porta, O. Liu, H. Rowaihy*. July 2010. Sensor-Mission Assignment in Wireless Sensor Networks. *ACM Transactions on Sensor Networks*. Volume 6, Issue 4, Article 36, 33 pages. (Sixth author supervised by candidate) (Peer reviewed)
48. Rowaihy*, H., M. Johnson, D. Pizzacaro, A. Bar-Noy, A. Preece, T. F. La Porta. November 2010. Sensor Mission Assignment in Constrained Environments. *IEEE Transactions on Parallel and Distributed Systems* 21(11):1692-1705. (First author supervised by candidate) (Peer reviewed)
49. La Porta, T. F., G. Maselli, C. Petrioli. February 2011. Anti-collision Protocols for Single-Reader RFID Systems: Temporal Analysis and Optimization. *IEEE Transactions on Mobile Computing* 10(2):267-279.
50. Wang*, G., M. J. Irwin, H. Fu, P. Berman, W. Zhang, T. F. La Porta. February 2011. Optimizing Sensor Movement Planning for Energy Efficiency. *ACM Transactions on Sensor Networks*. Volume 7, Issue 4, Article 33, 17 pages. (First author co-supervised by candidate)
51. Bartolini, N., T. Calamoneri, T. F. La Porta, S. Silvestri. June 2011. Autonomous Deployment of Heterogeneous Mobile Sensors. *IEEE Transactions on Mobile Computing* 10(6):753-766.
52. Traynor*, P., C. Amrutkar, V. Rao, T. Jaeger, P. McDaniel, T. F. La Porta. June 2011. From Mobile Phones to Responsible Devices. *Journal of Security and Communication Networks (SCN)* 4(6):719-726. (First author co-supervised by candidate) (Peer reviewed)
53. Kumar*, R., T. F. La Porta. July 2011. Cooperative Channelization in Wireless Networks with Network Coding. *IEEE Transactions on Processing and Distributed Systems* 22(7):1073-1084. (First author supervised by candidate)
54. Alayev, Y., A. Bar-Noy, T. F. La Porta. August 2011. Broadcasting Info-Pages to Sensors: Efficiency vs. Energy Conservation. *ACM/Springer Wireless Networks Journal* 17(6):1529-1542.
55. Tang, L., X. Yu, S. Kim, J. Han, W.-C. Peng, Y. Sun, A. Leung, T. F. La Porta. 2012. Multidimensional Sensor Data Analysis in Cyber-Physical System: An Atypical Cube Approach. *International Journal of Distributed Sensor Networks*. 19 pages.
56. Chen*, F., M. Johnson, Y. Alayev, A. Bar-Noy, T. F. La Porta. January 2012. Who, When, Where: Timeslot Assignment to Mobile Clients. *IEEE Transactions on Mobile Computing* 11(1):73-85. (First author supervised by candidate)
57. Eswaran*, S., A. Misra, F. Bergamasachi, T. F. La Porta. March 2012. Utility-based Bandwidth Adaptation in Mission-Oriented Wireless Sensor Networks. *ACM Transactions on Sensor Networks*. Volume 8, Issue 2, 17 pages. (First author supervised by candidate)
58. Neely, M. J., S. Rager*, T. F. La Porta. May 2012. Max Weight Learning Algorithms for Scheduling in Unknown Environments. *IEEE Transactions on Automatic Control* 57(5):1179-1191. (Second author supervised by candidate)
59. Bartolini, N., T. Calamoneri, T. F. La Porta, C. Petrioli. July 2012. Sensor Activation and Radius Adaptation (SARA) in Heterogeneous Sensor Networks. *ACM Transactions on Sensor Networks*. Volume 8, Issue 3, 24 pages.

60. Eswaran*, S., A. Misra, T. F. La Porta. August 2012. Control-theoretic Utility Maximization in Multihop Wireless Networks under Mission Dynamics. *IEEE/ACM Transactions on Networking* 20(4):1082-1095. (First author supervised by candidate)
61. Eswaran*, S., J. Edwards*, A. Misra, T. F. La Porta. September 2012. Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multi-hop Wireless Networks. *IEEE Transactions on Mobile Computing* 11(9):1484-1498. (First two authors supervised by candidate)
62. Chen*, F., M. Johnson, A. Bar-Noy, I. Fermin, T. F. La Porta. October 2012. Proactive Data Dissemination to Mission Sites. *Wireless Networks* 18(7):749-762. (First author supervised by candidate)
63. Gao, W., G. Cao, T. F. La Porta, J. Han. January 2013. On Exploiting Transient Social Contact Patterns for Data Forwarding in Delay Tolerant Networks. *IEEE Transactions on Mobile Computing* 12(1):151-165.
64. Ray*, S., T. F. La Porta, P. Basu, G. Cao, S. Schaffer, D. Dent. March 2013. Metric Driven Mobility Modeling in Tactical Networks. *Journal of Defense Modeling and Simulation* 10(2):161-179.
65. Tang, L., X. Yu, S. Kim, Q. Gu, J. Han, A. Leung, T. F. La Porta. May 2013. Trustworthiness Analysis of Sensor Data in Cyber-physical Systems. *Journal of Computer and System Sciences* 79(3):383-401.
66. Basu, P., R. Gibbens, T. F. La Porta, C.-Y. Lin, A. Swami, E. Yoneki. June 2013. Guest Editorial: Network Science. *IEEE Journal on Selected Areas in Communications* 31(6):993-996.
67. Kim, T.-S., I. Broustis, S. Vural, D. Syrivelis, S. Singh, S. V. Krishnamurthy, T. F. La Porta. June 2013. Realizing the Benefits of Wireless Network Coding in Multi-Rate Settings. *IEEE/ACM Transactions on Networking* 21(3):950-962.
68. Tang, L., Y. Zheng, J. Yuan, J. Han, A. Leung, W.-C. Peng, T. F. La Porta. December 2013. A Framework of Traveling Companion Discovery on Trajectory Data Streams. *ACM Transactions on Intelligent Systems and Technology*. Volume 5, No. 1, Article 3, 34 pages.
69. Bartolini, N., G. C. Bongiovanni, T. F. La Porta, S. Silvestri. February 2014. On the Vulnerabilities of the Virtual Force Approach to Mobile Sensor Deployment. *IEEE Transactions on Mobile Computing* 13(11):2592-2605.
70. Li, Q., G. Cao, T. F. La Porta. March 2014. Efficient and Privacy-Aware Data Aggregation in Mobile Sensing. *IEEE Transactions on Dependable and Secure Computing* 11(2):115-129.
71. Edwards*, J., A. Bahjat*, Y. Jiang, T. Cook, T. F. La Porta. April 2014. Quality of Information-aware Mobile Applications. *Pervasive and Mobile Computing* 11:216-228. Elsevier. (First and second authors supervised by candidate)
72. Zhang, C., J. Han, L. Shou, J. Lu, T. F. La Porta. May 2014. Splitter: Mining Fine-Grained Sequential Patterns in Semantic Trajectories. *PVLDB* 7(9):769-780.
73. La Porta, T. F., C. Petrioli, C. Phillips, D. Spenza. June 2014. Sensor-mission Assignment in Rechargeable Wireless Sensor Networks. *ACM Transactions on Sensor Networks*. Volume 10, Issue 4, Article 60, 39 pages.
74. Alayev, Y., F. Chen*, Y. Hou, M. P. Johnson, A. Bar-Noy, T. F. La Porta, K. K. Leung. July 2014. Throughput Maximization in Mobile WSN Scheduling With Power Control and Rate Selection. *IEEE Transactions on Wireless Communications* 13(7):4066-4079.

75. Zheng, Q., G. Cao, T. F. La Porta, A. Swami. July 2014. Cross-Layer Approach for Minimizing Routing Disruption in IP Networks. *IEEE Transactions on Parallel Distrib. Syst.* 25(7):1659-1669.
76. Ciftcioglu, E. N., A. Michaloliakos, A. Yener, K. Psounis, T. F. La Porta, R. Govindan. December 2014. Operational Information Content Sum Capacity: From Theory to Practice. *Computer Networks* 75(1-17).
77. Tati*, S., B. Ko, G. Cao, A. Swami, T. F. La Porta. March 2015. Adaptive Algorithms for Diagnosing Large-scale Failures in Computer Networks. *IEEE Transactions on Parallel and Distributed Systems* 26(3):646-656.
78. Tang, L. A., X. Yu, Q. Gu, J. Han, G. Jiang, A. Leung, T. F. La Porta. April 2015. A Framework for Mining Trajectories from Untrustworthy Data in Cyber-Physical System. *ACM Transactions on Knowledge Discovery from Data*. Volume 9, Issue 13, Article 16, 35 pages.
79. Papageorgiou, G., S. Singh, S. V. Krishnamurthy, R. Govindan, T. F. La Porta. April 2015. A Distortion-resistant Routing Framework for Video Traffic in Wireless Multihop Networks. *IEEE/ACM Transactions on Networking* 23(2):414-425.
80. Tati*, S., S. Rager, B.-J. Ko, G. Cao, A. Swami, T.F. La Porta, netCSI: A Generic Fault Diagnosis Algorithm for Large-Scale Failures in Computer Networks, *IEEE Transactions on Dependable and Secure Computing*13(3):355-368, May/June 2016.
81. Lu, Z., X. Sun, W. Wen, G. Cao. T.F. La Porta, Algorithms and Applications for Community Detection in Weighted Networks, *IEEE Transactions on Parallel and Distributed Systems*, to appear.
82. Alayev, Y., A. Bar-Noy, M. Johnson, L. Kaplan, T. F. La Porta. July 2015. You Can't Get There from Here: Sensor Scheduling with Refocusing Delays. *Wireless Networks* 21(5):1683-1698.
83. Atya, A., I. Broustis, S. Singh, D. Syrivelis, S. Krishnamurthy, T.F. La Porta, A Policy Aware Enforcement Logic for Appropriately Invoking Network Coding, *IEEE/ACM Transactions on Networking*, 24(4):2005-2018, Aug. 2016.
84. Holbert*, B., S. Tati*, S. Silvestri, T. F. La Porta, A. Swami. September 2015. Network Topology Inference with Partial Information. *IEEE Transactions on Network and Service Management* 12(3):406-419.
85. S. Silvestri, N. Bartolini, S. Ciavaralla, T.F. La Porta, "On the Vulnerabilities of Voronoi-based Approaches to Mobile Sensor Deployment," IEEE Transactions on Mobile Computing, 15(12), 2016.
86. R. Ramanathan, E. Ciftcioglu, A. Samanta, R. Urgaonkar, T. F. La Porta, "Symptotics: A Framework for Estimating the Scalability of Real-World Wireless Networks," ACM/Springer Wireless Networks Journal, DOI 10.1007/s11276-016-1204-4, to appear.
87. N. Bartolini, S. Ciavarella, T. F. La Porta, S. Silvestri, "On Critical Service Recovery After Massive Network Failures," IEEE/ACM Transactions on Network, 25(4):2235 – 2249, August, 2017.
88. N. Bartolini, T. Calamoneri, S. Ciavarella, T. F. La Porta, S. Silvestri, "Autonomous Mobile Sensor Placement in Complex Environments," ACM Transactions on Autonomous and Adaptive Systems, to appear.

89. T.A. Dao, A.K. Roy-Chowdhury, H. Madhyastha, S. Krishnamurthy, T.F. La Porta, "Managing Redundant Content in Bandwidth Constrained Wireless Networks, IEEE/ACM Transactions on Networking, 25(2): 988 – 1003, April, 2017.
90. M. Lin, S. Silvestri, N. Bartolini, T.F. La Porta, "Selective Activation in Dense Femtocell Networks," IEEE Transactions on Wireless Communications, 15(10):7018-7029.
91. H. Khamfroush, N. Bartolini, T.F. La Porta, A. Swami, J, Dillman, "On Propagation of Phenomena in Interdependent Networks," IEEE Transactions on Network Science and Engineering, 3(4):225 – 239, Oct-Dec, 2016.
92. Z. Lu, G. Cao, T.F. La Porta, "TeamPhone: Networking Smart Phone for Disaster Recovery," IEEE Transaction on Mobile Computing, to appear.
93. D. Z. Tootaghaj, T. He, T.F. La Porta, "Parsimonious Tomography: Optimizing Cost-Identifiability Trade-off for Probing-based Network Monitoring," ACM Performance Evaluation Review (PER), 45 (2), 107-110, 2018.
94. S. Rager, E. Ciftioglu, R. Ramanathan, T.F. La Porta, R. Govindan, "Scalability and Satisfiability of Quality-of-Information in Wireless Networks," IEEE/ACM Transactions on Networking, 10.1109/TNET.2017.2781202, 26 (1), 398-411, 2018.
95. Z. Lu, X. Sun, Xiao, T. F. La Porta, "Cooperative Data Offload in Opportunistic Networks: From Mobile Devices to Infrastructure," IEEE/ACM Transactions on Networking, Digital Object Identifier: 10.1109/TNET.2017.2747621, 25(6):3382-3395, December, 2017.
96. S. Achleitner, T.F. La Porta, P. McDaniel, S. Sugrim, S.V. Krishnamurthy, R. Chada, "Deceiving Network Reconnaissance Using SDN-based Virtual Topologies," IEEE Transactions on Network and Service Management, DOI: 10.1109/TNSM.2017.2724239, 14(4): 1098-1112, December, 2017.
97. S. Achleitner, N. Bartolini. T. He, T.F. La Porta, D. Tootaghaj, "Fast Network Configuration in Software Defined Networks," IEEE Transactions on Network and Service Management, DOE 10.1109/TNSM.2018.2874051, 15 (4), 1249-1263, 2018.
98. D. Tootaghaj, N. Bartolini, H. Khamfroush, T. He, N. Ray Chaudhuri, T. La Porta, "Mitigation and Recovery from Cascading Failures in Interdependencv Networks Under Uncertainty," IEEE Transactions on Control of Network Systems, DOI:10.1109/TCNS.2018.2843168, **6**(2):501-514, June 2019.
99. Z. Lu, K. Chan, S. Pu, T. F. La Porta, "CrowdVision: A Computing Platform for Video Crowdprocessing Using Deep Learning," IEEE Transactions on Mobile Computing, 18(7):1513-1526, DOI: 10.1109/TMC.2018.2864212, July, 2019.
100. D. Tootaghaj, N. Bartolini, H. Khamfroush, T. He, N. Ray Chaudhuri, T. La Porta, On Progressive Network Recovery from Massive Failures under Uncertainty, IEEE Transactions on Network and Service Management, Digital Object Identifier: 10.1109/TNSM.2018.2880155, 16(1): 113-126, March, 2019.
101. A. Atya, Z. Qian, S. Krishnamurthy, T. La Porta, P. McDaniel, L. Marvel, "Catch Me If You Can: A Closer Look at Malicious Co-Residency on the Cloud," IEEE/ACM Transactions on Networking, Digital Object Identifier: 10.1109/TNET.2019.2891528, 27(2):560-576, April, 2019.
102. M. Lin, N. Bartolini, T. F. La Porta, M. Giallorenzo, "On Interference Aware Power Adjustment and Scheduling in Femtocell Networks," IEEE/ACM Transactions on

Networking, Digital Object Identifier: 10.1109/TNET.2020.2973833, 28(2): 736-749, April, 2020.

103. N. Felemban, F. Mehmeti, H. Khamfroush, Z. Lu, S. Rallapalli. K. Chan, T.F. La Porta, "PicSys: Energy-Efficient Fast Image Search on Distributed Mobile Networks," IEEE Transactions on Mobile Computing, Digital Object Identifier: 10.1109/TMC.2019.2963150, 20(4):1574-1589, April, 2021.
104. Z. Lu, K. Chan, R. Urgaonkar, S. Pu, T. F. La Porta, "NetVision: On-demand Video Processing in Wireless Networks," IEEE/ACM Transactions on Networking, 28(1): 196-209, Digital Object Identifier: 10.1109/TNET.2019.2954909, February, 2020.
105. Y. Cao, A. Osama, S. Singh, Z. Qian, S. Krishnamurthy, T.F. La Porta, P. Mohapatra, L. Marvel, "Packet Header Obfuscation Using MIMO," IEEE/ACM Transactions on Networking, 28(4): 1712-1725, August 2020.
106. Z. Lu, S. Rallapalli, K. Chan, S. Pu, T. F. La Porta, "Augur: Modeling the Resource Requirements of ConvNets on Mobile Devices," IEEE Transactions on Mobile Computing, DOE: 10.1109/TMC.2019.2946538, 20(2):352-365, Feb, 2021
107. S. Achleitner, Q. Burke, P. McDaniel, T. Jaeger, T.F. La Porta, S.Krishnamurthy, "MLSNet: A Policy Complying Multilevel Security Framework for Software Defined Networking," IEEE Transactions on Network and Service Management, Digital Object Identifier: 10.1109/TNSM.2020.3045998, 18(1):729-744, March, 2021.
108. V. Farhadi, T. He, T. F. La Porta, H. Khamfroush, S. Wang, K. Chan, K Poularakis, "Service Placement and Request Scheduling for Data-intensive Applications in Edge Clouds," IEEE/ACM Transactions on Networking, Digital Object Identifier: 10.1109/TNET.2020.3048613, 29(2):779-792, April 2021.
109. F. Mehmeti, T.F. La Porta, "Reducing the Cost of Consistency: Performance Improvements in Next Generation Cellular Networks with Optimal Resource Reallocation," IEEE Transactions on Mobile Computing, Digital Object Identifier: 10.1109/TMC.2020.3039757, 2020, to appear.
110. X. Chen, T. Tan, G. Cao, T.F. La Porta, "Context-Aware and Energy-Aware Video Streaming on Smartphones," IEEE Transactions on Mobile Computing, Digital Object Identifier: 10.1109/TMC.2020.3019341, 2020, to appear.
111. S. Gharebaghi, N. Ray Chaudhuri, S. G. Vennelaganti, T. He, T. F. La Porta, "Inclusion of Pre-Existing Undervoltage Load Shedding Schemes in AC-QSS Cascading Failure Models," IEEE Transactions on Power Systems, 36(6): 5645-5656 Digital Object Identifier: 10.1109/TPWRS.2021.3075210, November, 2021.
112. Q. Burke, P.McDaniel,T. La Porta, M. Yu, T. He, Misreporting Attacks in Software-Defined Networking," Springer Mobile Networks and Applications, to appear.

Conference Proceedings

113. La Porta, T. F., M. Schwartz. December 1991. Architectures, Features, and Implementation of High-Speed Transport Protocols. *Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 1991).* pp. 1717-1721. Phoenix, AZ.
114. La Porta, T. F., M. Schwartz. December 1992. A High-Speed Protocol Parallel Implementation: Design and Analysis. *Proceedings of the Fourth International*

Conference on High Performance Networking (HPN 1992). pp. 135-150. Liege, Belgium.

115. La Porta, T. F., M. Schwartz. May 1993. A Highly Flexible High-Speed Transport Protocol: Functionality and Performance. *Proceedings of IEEE International Conference on Communications (ICC 1993).* pp. 182-186. Geneva, Switzerland.
116. La Porta, T. F., M. Schwartz. March 28-April 1, 1993. Performance Analysis of MSP: A Feature-Rich High-Speed Transport Protocol. *Proceedings of INFOCOM 1993.* pp. 513-520. San Francisco, CA.
117. Veeraraghavan, M., T. F. La Porta. June 1993. Homogeneous Signaling for ATM, LANS, MANS, and WANS. *Proceedings of the Second International Conference on Computer Communications and Networks (ICCCN 1993).* pp. 54-57. San Diego, CA.
118. La Porta, T. F., M. Veeraraghavan. November 1993. Functional Signaling Architecture for Broadband Networks. *Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 1993).* pp. 1012-1016. Houston, TX.
119. Veeraraghavan, M., T. F. La Porta. September 27-October 1, 1993. Signaling Models for Control of B-ISDN and IN Services. *Proceedings of the IEEE International Symposium on Subscriber Loops and Services (ISSLS 1993).* pp. 198-203. Vancouver, Canada.
120. La Porta, T. F., M. Veeraraghavan. May 1994. Designing and Implementation of a Distributed Call Processing Architecture. *Proceedings of the 1994 International Conference on Communications (ICC 1994).* pp. 278-282. New Orleans, LA.
121. La Porta, T. F., M. Veeraraghavan. April 1995. An Experimental Signaling Architecture and Modular Signaling Protocols. *Proceedings of International Switching Symposium (ISS 1995).* Berlin, Germany.
122. Veeraraghavan, M., T. F. La Porta, W. S. Lai. April 1995. An Alternative Approach to Call/Connection Control in Broadband Switching Systems. *Proceedings of IEEE BSS 1995.* Poznan, Poland.
123. Paul, S., E. Ayanoglu, T. F. La Porta, K. K. Sabnani, R. D. Gitlin. April 1995. An Asymmetric Protocol for a Wireless Link. *Proceedings of IEEE INFORCOM 1995.* pp. 1053-1062. Boston, MA.
124. Qin, Z., M. Veeraraghavan, T. F. La Porta. November 1995. An Improved Mobile Tracking and Location Procedure for ATM-Based PCNs. *Proceedings of IEEE Globecom 1995.* pp. 6-11. Singapore.
125. La Porta, T. F., M. Veeraraghavan. June 1995. Direct Signaling: A New Access Signaling Architecture. *Proceedings of IEEE ICC 1995.* pp. 93-98. Seattle, WA.
126. Veeraraghavan, M., T. F. La Porta, R. Ramjee. 1995. A Distributed Control Strategy for Wireless ATM Networks. *Proceedings of IEEE ICC 1995,* published in *ACM/Baltzer Wireless Networks Journal* 1(3):323-339.
127. Woo, T., T. F. La Porta, K. K. Sanbani. 1997. Pigeon: A Wireless Two-Way Messaging System. *Proceedings of the Seventh International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 1996).* pp. 693-697. Taiwan.
128. Veeraraghavan, M., T. F. La Porta, R. Ramjee. February 1996. User Signaling Servers for ATM-Based PCS Networks. *Proceedings of the International Symposium on Subscriber Loops and Services (ISSLS 1996).* pp. 163-169. Melbourne, Australia.

129. La Porta, T. F., A. Sawkar, W. Strom. 1997. The Role of Technology in Wireless Access Network Evolution. *Proceedings of ISS 1997.*
130. Sabnani, K. K., T. Woo, T. F. La Porta. September 1997. A System for Wireless Data Services. *Proceedings of the Eighth International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 1997).* pp. 205-229. Helsinki, Finland. (Invited)
131. Woo, T., T. F. La Porta, K. K. Sabnani. October 1997. User Agents and Flexible Messages: A New Approach to Wireless Two-Way Messaging. *Proceedings of the IEEE International Conference on Network Protocols (ICNP 1997).* pp. 53-62. Atlanta, GA.
132. Woo, T., T. F. La Porta, J. Golestani, N. Agarwal. March 29-April 2, 1998. Update and Search Algorithms for Wireless Two-Way Messaging: Design and Performance. *Proceedings of INFOCOM 1998.* pp. 737-747. San Francisco, CA.
133. Ramjee, R., T. F. La Porta, J. F. Kurose, D. F. Towsley. March 29-April 2, 1998. User Agent Migration Policies in Multimedia Wireless Networks. *Proceedings of INFOCOM 1998.* pp. 1147-1155. San Francisco, CA.
134. La Porta, T. F., R. Ramjee, K. Murakami, Y-J. Lin, R. Buskens. September 1998. Cluster Mobile Switching Center for Third Generation Wireless Systems. *Proceedings of the Ninth International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 1998).* 1:121-125. Boston, MA. (Invited)
135. Murakami, K., R. W. Buskens, R. Ramjee, Y-J. Lin, T. F. La Porta. June 1998. Design, Implementation, and Evaluation of Highly Available Distributed Call Processing Systems. *Proceedings of the 28th International Symposium on Fault-Tolerant Computing (FTCS 1998).* pp. 118-127. Munich, Germany.
136. La Porta, T. F., D. Lee, Y-J. Lin, M. Yannakakis. November 1998. Protocol Feature Interactions. *Proceedings of the Joint International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols (FORTE1998).* pp. 59-74. Paris, France.
137. La Porta, T. F., L. Salgarelli, G. Foster. September 1999. Mobile IP and Wide Area Wireless Data. *Proceedings of the Wireless Communications and Networking Conference (WCNC 1999).* pp. 1528-1532. New Orleans, LA.
138. Ramjee, R., T. F. La Porta, S. Thuel, K. Varadhan, S. Y. Wang. October 31-November 3, 1999. HAWAII: A Domain-based Approach for Supporting Mobility in Wide-Area Wireless Networks *Proceedings of the Seventh International Conference on Network Protocols (ICNP 1999).* pp. 283-292. Toronto, Canada.
139. Lennox, J., K. Murakami, M. Karaul, T. F. La Porta. March 2000. Interworking Internet Telephony and Wireless Telecommunications Networks. *Proceedings of the IEEE Workshop on IP Telephony (IPTel 2000)*. New York, NY.
140. La Porta, T. F., K. Murakami, R. Ramjee. September 2000. RIMA: Router for Integrated Mobile Access. *Proceedings of the Eleventh International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2000).* pp. 315-321. London, England.
141. Ramjee, R., L. Li, T. F. La Porta, S. Kasera. July 2001. IP Paging Service for Mobile Hosts. *Proceedings of the Seventh Annual International Conference on Mobile Computing and Networking (Mobicom 2001).* pp. 332-345. Rome, Italy.
142. Kasera, S., J. Pinheiro, C. Loader, M. Karaul, A. Hari, T. F. La Porta. November 2001. Fast and Robust Signaling Overload Control. *Proceedings of the Ninth*

International Conference on Network Protocols (ICNP 2001). pp. 323-331. Riverside, CA.

143. Wang*, G., W. Zhang, G. Cao, T. F. La Porta. October 2003. On Supporting Distributed Collaboration in Sensor Networks. *Proceedings of the IEEE Military Communications Conference (MILCOM 2003).* pp. 752-757. Boston, MA.
144. Tarnacha, A., T. F. La Porta. October 2003. E-STROBE: An Adaptive Beacon Activation Algorithm for Sensor Location. *Proceedings of the IEEE Semiannual Vehicular Technology Conference (VTC 2003).* Proceedings on CD-ROM. Orlando, FL.
145. Zhang, W., G. Cao, T. F. La Porta. November 2003. Data Dissemination with Ring-Based Index for Sensor Networks. *Proceedings of the IEEE International Conference on Network Protocols (ICNP 2003).* pp. 305-314. Atlanta, GA. (Acceptance ratio is about 15%)
146. Wang*, G., G. Cao, T. F. La Porta. November 2003. A Bidding Protocol for Deploying Mobile Sensors. *Proceedings of the IEEE International Conference on Network Protocols (ICNP 2003).* pp. 315-324. Atlanta, GA. (Acceptance ratio is about 15%)
147. Wang*, G., G. Cao, T. F. La Porta. March 2004. Movement-Assisted Sensor Deployment. *Proceedings of IEEE INFOCOM 2004*. pp. 2469-2479. Hong Kong. (First author supervised by candidate) (Acceptance ratio is about 18%)
148. Zhang, W., G. Cao, T. F. La Porta. October 2004. Dynamic Proxy Tree-Based Data Dissemination Schemes for Wireless Sensor Networks. *Proceedings of the First IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2004)*. pp. 21-30. Fort Lauderdale, FL.
149. Wang*, G., G. Cao, T. F. La Porta. October 2004. Proxy-Based Sensor Deployment for Mobile Sensor Networks. *Proceedings of the First IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2004)*. pp. 493-502. Fort Lauderdale, FL. (First author supervised by candidate)
150. Wang*, G., G. Cao, T. F. La Porta, W. Zhang. March 2005. Sensor Relocation in Mobile Sensor Networks. *Proceedings of IEEE INFOCOM 2005*. pp. 2302-2312. Miami, FL. (First author supervised by candidate)
151. Choi*, H., H. Song, G. Cao, T. F. La Porta. March 2005. Mobile Multi-Layered IPSec. *Proceedings of IEEE INFOCOM 2005*. pp. 1929-1939. Miami, FL. (First two authors supervised by candidate)
152. Choi*, H., H. Song, G. Cao, T. F. La Porta. April 2005. Mobile IPsec. *Proceedings of the IEEE Communications, Quality, and Reliability Workshop (CQR 2005)*. pp. 78-84. St. Pete Beach, FL. (First author supervised by candidate)
153. Kotapati*, K., P. Liu, Y. Sun*, T. F. La Porta. May 2005. A Taxonomy of Cyber Attacks on 3G Networks. *Proceedings of the IEEE International Conference on Intelligence and Security Informatics (ISI 2005).* Springer-Verlag LNCS 3495(1):631-633. Atlanta, GA. (First and third authors supervised by candidate)
154. Choi*, H., W. Enck, J. Shin*, P. McDaniel, T. F. La Porta. July 2005. Secure Reporting of Traffic Forwarding Activity in Mobile Ad Hoc Networks. *Proceedings of the Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (MobiQuitous 2005)*. pp. 12-21. San Diego, CA. (First and third authors supervised by candidate)
155. Wang*, G., M. J. Irwin, P. Berman, H. Fu, T. F. La Porta. August 2005. Optimizing Sensor Movement Planning for Energy Efficiency. *Proceedings of the International Symposium on Low Power Electronics and Design (ISLPED 2005)*. pp. 215-220. San Diego, CA. (First author co-supervised by candidate)

156. Kasera, S., J. Pinhiero, C. Loader, M. Karaul, A. Hari, T. F. La Porta. November 2005. Robust Multiclass Signaling Overload Control. *Proceedings of the Thirteenth IEEE International Conference on Network Protocols (ICNP 2005)*. pp. 246-258. Boston, MA.
157. Enck, W., P. Traynor*, P. McDaniel, T. F. La Porta. November 2005. Exploiting Open Functionality in SMS-Capable Cellular Networks. *Proceedings of the Twelfth ACM Conference on Computer and Communications Security (CCS 2005)*. pp. 393-404. Alexandria, VA. (Second author co-supervised by candidate)
158. Sun*, Y., P. Liu, P. Kermani, T. F. La Porta. December 2005. An Architecture and Key Management Approach for Maintaining Privacy in Location Based Group Services. *Proceedings of the First International Conference on Collaborative Computing: Networking, Applications, and Worksharing (CollaborateCom 2005)*. Proceedings on CD-ROM. San Jose, CA. (First author supervised by candidate)
159. Traynor*, P., G. Cao, T. F. La Porta. April 2006. The Effects of Probabilistic Key Management on Secure Routing in Sensor Networks. *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2006)*. pp. 659-664. Las Vegas, NV. (First author co-supervised by candidate)
160. Traynor*, P., H. Choi*, G. Cao, S. Zhu, T. F. La Porta. April 2006. Establishing Pair-Wise Keys in Heterogeneous Sensor Networks. *Proceedings of IEEE INFOCOM 2006*. 25(1): 2073-2084**.** Barcelona, Spain. (First author co-supervised and second author supervised by candidate)
161. Kotapati*, K., P. Liu. T. F. La Porta. May 2006. CAT – A Practical Graph & SDL Based Toolkit for Vulnerability Assessment of 3G Networks. *Proceedings of the Twenty-First IFIP International Information Security Conference (SEC 2006)*. pp. 158-170. Karlstad, Sweden. (First author supervised by candidate)
162. Shin*, J., T. F. La Porta. June 2006. Hybrid Wireless Networks. *Proceedings of the Fifth Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net 2006)*. Proceedings on CD-ROM. Lipari, Sicily, Italy. (First author supervised by candidate)
163. Traynor*, P., R. Kumar*, H. B. Saad*, G. Cao, T. F. La Porta. June 2006. LIGER: Implementing Efficient Hybrid Security Mechanisms for Heterogeneous Sensor Networks. *Proceedings of the Fourth International Conference on Mobile Systems, Applications, and Services (MobiSys 2006)*. pp. 15-27. Upsalla, Sweden. (First author co-supervised, second and third authors supervised by candidate)
164. Traynor*, P., J. Shin*, B. Madan, S. Phoha, T. F. La Porta. September 2006. Efficient Group Mobility for heterogeneous Sensor Networks. *Proceedings of the IEEE Vehicular Technology Conference (VTC 2006)*. 6 pages. Montreal, Canada. (First two authors supervised by candidate)
165. Traynor*, P., W. Enck, P. McDaniel, T. F. La Porta. September 2006. Mitigating Attacks on Open Functionality in SMS-Capable Cellular Networks. *Proceedings of the Twelfth Annual International Conference on Mobile Computing and Networking (Mobicom 2006)*. pp. 182-193. Los Angeles, CA. (First author co-supervised by candidate)
166. Rowaihy*, H., S. Eswaran*, P. Johnson, T. Brown, A. Barnoy, D. Verma, T. F. La Porta. April 2007. A Survey of Sensor Selection Schemes in Wireless Sensor Networks. *Proceedings of the SPIE Unattended Ground, Sea, and Air Sensor*

Technologies and Applications IX Conference 6562:65621A1-A13. Orlando, FL. (First two authors supervised by candidate)

167. Brown, T., A. Barnoy, D. Verma, P. Johnson, H. Rowaihy*, T. F. La Porta, D. Sarioz. April 2007. Geometric Considerations for Optimally Placing Sensors in a Field. *Proceedings of the SPIE Unattended Ground, Sea, and Air Sensor Technologies and Applications IX Conference*. 9 pages. Orlando, FL. (Fifth author supervised by candidate)
168. Rowaihy*, H., W. Enck, P. McDaniel, T. F. La Porta. May 2007. Limiting Sybil Attacks in Structured Peer-to-Peer Networks. *Proceedings of the Twenty-Sixth Annual IEEE Conference on Computer Communications (INFOCOM 2007) Mini-Symposium on Security, Streaming, and Overlays*. pp. 2596-2600. Anchorage, Alaska. (First author supervised by candidate)
169. Choi*, H., T. F. La Porta, P. McDaniel. June 2007. Privacy Preserving Communication in MANETs. *Proceedings of Fourth Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON 2007)*. pp. 233-242. San Diego, CA. (First author supervised by candidate)
170. Bar-Noy, A., T. Brown, M. Johnson, T. F. La Porta, O. Liu, H. Rowaihy*. July 2007. Assigning Sensors to Missions with Demands. *Proceedings of the Third International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS 2007)*. Springer-Verlag LNCS 4837:114-125. Wroclaw, Poland.
171. Traynor*, P., P. McDaniel, T. F. La Porta. August 2007. On Attack Causality in Internet-Connected Cellular Networks. *Proceedings of the Sixteenth USENIX Security Symposium (SECURITY 2007)*. pp. 307-322. Boston, MA. (First author co-supervised by candidate)
172. Choi*, H., S. Zhu, T. F. La Porta. September 2007. SET: Detecting Node Clones in Sensor Networks. *Proceedings of the Third International Conference on Security and Privacy in Communication Networks (SecureComm 2007)*. 10 pages. Proceedings on CD-ROM. Nice, France. (First author supervised by candidate)
173. Venkateswaran, A., V. Sarangan, T. F. La Porta, R. Acharya. October 2007. A Mobility Prediction Based Relay Deployment Framework for Conserving Power in MANETs. *Proceedings of the Tenth ACM International Workshop on Modeling Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2007)*. pp. 209-216. Crete Island, Greece.
174. Shin*, J., R. Kumar, T. F. La Porta. October 2007. Relay Based Multi-hop Access to Wireless Mesh Networks. *Proceedings of the Fourth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2007)*. Proceedings on CD-ROM. 3 pages. Pisa, Italy. (First author supervised by candidate) (Poster presentation)
175. Teng, J., G. Cao, T. F. La Porta. October 2007. Sensor Relocation with Mobile Sensors: Design, Implementation, and Evaluation. *Proceedings of the Fourth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2007)*. Proceedings on CD-ROM. 9 pages. Pisa, Italy.
176. Eswaran*, S., A. Misra, T. F. La Porta, K. Leung. March 2008. Providing Rapid Adaptation for Dynamic Missions in Mobile, Wireless Sensor Environments. *Proceedings of the SPIE Defense and Security Symposium*. Volume 6981. 12 pages. Orlando, FL. (First author supervised by candidate)
177. Preece, A., M. Gomez, G. de Mel, W. Vasconcelos, D. Sleeman, S. Colley, G. Pearson, T. F. La Porta. March 2008. Matching Sensors to Missions Using a

Knowledge-based Approach. *Proceedings of the SPIE Defense and Security Symposium*. Volume 6981. 12 pages. Orlando, FL.

178. Shin*, J., R. Kumar*, T. F. La Porta, Y. Shin. March 31-April 3, 2008. Multi-hop Wireless Relay Networks of Mesh Clients. *Proceedings of the IEEE Wireless Communications & Networking Conference (WCNC 2008)*. pp. 2717-2722. Las Vegas, NV. (First two authors supervised by candidate)
179. Kumar*, R., H. Choi*, J. Shin*, T. F. La Porta. April 2008. Channelization for Network Coding in Wireless Networks. *Proceedings of the Twenty Seventh Conference on Computer Communications (IEEE Infocom 2008)*. pp. 366-370. Phoenix, AZ. (First three authors supervised by candidate)
180. Sun*, Y., F. Chen*, T. F. La Porta. May 2008. Multiple Backhaul Mobile Access Router: Design and Experimentation. *Proceedings of the IEEE International Conference on Communications (ICC 2008)*. pp. 4543-4548. Beijing, China. (First two authors supervised by candidate)|
181. Johnson, M., H. Rowaihy*, D. Pizzocaro, A. Bar-Noy, S. Chalmers, T. F. La Porta, A. Preece. June 2008. Frugal Sensor Assignment. *Proceedings of the Fourth IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2008)*. Springer-Verlag LNCS 5067:219-236. Santorini Island, Greece. (Second author supervised by candidate)
182. Kotapati*, K., P. Liu, T. F. La Porta. June 2008. "EndSec" An End-to-End Message Security Protocol for Mobile Telecommunication Networks. *Proceedings of First IEEE Workshop on Security, Privacy and Authentication in Wireless Networks (SPAWM)*, held in conjunction with *IEEE WoWMoM 2008*. pp. 1-7. Newport Beach, CA. (First author supervised by candidate)
183. Alayev, Y., A. Bar-Noy, T. F. La Porta. June 2008. Broadcasting Info-Pages to Sensors: Efficiency vs. Energy Conservation. *Proceedings of IEEE SECON 2008*. pp. 368-376. San Francisco, CA.
184. Eswaran*, S., A. Misra, T. F. La Porta. June 2008. Utility-Based Adaptation in Mission-oriented Wireless Sensor Networks. *Proceedings of IEEE SECON 2008*. pp. 278-286. San Francisco, CA. (First author supervised by candidate)
185. Shao, M., S. Zhu, G. Cao, T. La Porta, P. Mohapatra. September 2008. A Cross-layer Dropping Attack in Video Streaming over Ad Hoc Networks. *Proceedings of the Fourth International Conference on Security and Privacy in Communication Networks (SecureComm 2008)*. Proceedings on CD-ROM. 8 pages. Istanbul, Turkey.
186. Tichogiorgos, J., K. Leung, A. Misra, T. F. La Porta. September 2008. Distributed Network Utility Optimization in Wireless Sensor Networks Using Power Control. *Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2008)*. 6 pages. Cannes, France.
187. Alayev, Y., A. Bar-Noy, F. Chen*, I. Fermin, T. F. La Porta, A. G. Pearson, T. Pham. September 2008. A System Architecture for Filtering and Disseminating Data in Sensor Networks. *Proceedings of the Fifth SPIE European Symposium on Optics/Photonics in Security and Defence, Unmanned/Unattended Sensors and Sensors Networks V*. Volume 7112. 9 pages. Cardiff, Wales. (Third author supervised by candidate)
188. Gomez, M., A. Preece, M. Johnson, G. de Mel, W Vasconcelos, A. Bar-Noy, T. F. La Porta, D. Pizzocaro, H. Rowaihy*. September 2008. A Knapsack Approach to Sensor-mission Assignment with Uncertain Demands. *Proceedings of the Fifth SPIE*

European Symposium on Optics/Photonics in Security and Defence, Unmanned/Unattended Sensors and Sensors Networks V. Volume 7112. 12 pages. Cardiff, Wales. (Ninth author supervised by candidate)

189. Gomez, M., A. Preece, M. Johnson, G. de Mel, W. Vascencelos, C. Gibson, A. Bar-Noy, K. Borowiecki, T. F. La Porta, D. Pizzocaro, H. Rowaihy*, G. Pearson, T. Pham. September 29-October 3, 2008. An Ontology-Centric Approach to Sensor-Mission Assignment. *Proceedings of the Sixteenth International Conference on Knowledge Engineering and Knowledge Management (EKAW 2008)*. pp. 347-363. Catania, Italy. (Eleventh author supervised by candidate)
190. Rowaihy*, H., M. Jonson. S. Eswaran*, D. Pizzocaro, A. Bar-Noy, T. F. La Porta, A. Misra, A. Preece. October 2008. Utility-Based Joint Sensor Selection and Congestion Control for Task-Oriented WSNs. *Proceedings of IEEE Asilomar*. 5 pages. Monterey, CA. (First and third authors supervised by candidate)
191. Gomez, M., A. Preece, M. Johnson, G. de Mel, W. Vascencelos, A. Bar-Noy, K. Borowiecki, T. F. La Porta, D. Pizzocaro, H. Rowaihy*, G. Pearson, T. Pham. November 2008. Reasoning and Resource Allocation for Sensor-Mission Assignment in a Coalition Context. *Proceedings of MILCOM 2008*. 7 pages. San Diego, CA. (Tenth author supervised by candidate)
192. Lin*, M., H. Rowaihy*, T. Bolbrock*, G. Cao, T. F. La Porta. November 30-December 4, 2008. Data Collection Using RFID and a Mobile Reader. *Proceedings of IEEE Globecom 2008*. pp. 741-746. New Orleans, LA. (First three authors supervised by candidate)
193. Rowaihy*, H., M. Johnson, A. Bar Noy, T. Brown, T. F. La Porta. November 30-December 4, 2008. Assigning Sensors to Competing Missions. *Proceedings of IEEE Globecom 2008*. pp. 44-49. New Orleans, LA. (First author supervised by candidate)
194. Misra, A., S. Eswaran*, T. F. La Porta. January 2009. Control-Theoretic, Mission-Driven, Optimization Techniques for Wireless Sensor Networks. *Proceedings of the Third Workshop on Intelligent Networks: Adaption, Communication & Reconfiguration (IAMCOM 2009)*. Proceedings on CD-ROM. 8 pages. Bangalore, India. (Second author supervised by candidate)

195. Rowaihy*, H., M. Johnson, D. Pizzocaro, A. Bar-Noy, L. Kaplan, T. F. La Porta, A. Preece. June 2009. Detection and Localization of Sensor Assignment with Exact and Fuzzy Locations. *Proceedings of the International Conference on Distributed Computing in Sensor Systems (DCOSS 2009)*. Springer-Verlag LNCS 5516:28-43. Marina Del Ray, CA. (First author supervised by candidate)
196. Eswaran*, S., M. Johnson, A. Misra, T. F. La Porta. June 2009. Adaptive In-Network Processing for Bandwidth and Energy Constrained Mission-Oriented Multi-hop Wireless Networks. *Proceedings of the International Conference on Distributed Computing in Sensor Systems (DCOSS 2009)*. Springer-Verlag LNCS 5516:87-102. Marina Del Ray, CA. (First author supervised by candidate)
197. Melervey*, R., Y. Sun*, T. F. La Porta. June 2009. Multiple Backhaul Mobile Access Router Striping. *Proceedings of the IEEE International Conference on Communications (ICC 2009)*. 6 pages. Dresden, Germany. (First two authors supervised by candidate)
198. Eswaran*, S., A. Misra, T. F. La Porta. June 2009. Control-theoretic Optimization of Utility over Mission Lifetimes in Multi-hop Wireless Networks. *Proceedings of the Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*. 9 pages. Rome, Italy. (First author supervised by candidate)
199. Shao, M., W. Hu, S. Zhu, G. Cao, S. Krishnamurthy, T. F. La Porta. June 2009. Cross-layer Enhanced Source Location Privacy in Sensor Networks. *Proceedings of the Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*. 9 pages. Rome, Italy.
200. Chen*, F., M. Johnson, A. Bar-Noy, I. Fermin, T. F. La Porta. June 2009. Proactive Data Dissemination to Mission Sites. *Proceedings of the Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*. 9 pages. Rome, Italy. (First author supervised by candidate)
201. La Porta, T. F., G. Maselli, C. Petrioli. June 2009. Optimal Frame Tuning for Aloha Protocols in RFID Networks. *Proceedings of the Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*. 3 pages. Rome, Italy. (Poster)
202. Yang, Y., S. Zhu, G. Cao, T. F. La Porta. September 2009. An Active Global Attack Model for Sensor Source Location Privacy: Analysis and Countermeasures. *Proceedings of the Fifth International ICST Conference on Security and Privacy in Communication Networks (SecureComm 2009)*. 20 pages. Athens, Greece.
203. Bartolini, N., T. Calamoneri, T. F. La Porta, A. Massini, S. Silvestri. October 2009. Autonomous Deployment of Heterogeneous Mobile Sensors. *Proceedings of the Seventeenth Annual IEEE International Conference on Network Protocols (ICNP 2009)*. pp. 42-51. Princeton, NJ. **(Best paper award)**
204. Chen*, F., M. Johnson, Y. Alayev, A. Bar-Noy. October 2009. Who, When, Where: Timeslot Assignment to Mobile Clients. *Proceedings of the Sixth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2009)*. pp. 90-99. Macau SAR, China. (First author supervised by candidate)
205. Traynor*, P., M. Lin*, M. Ongtang, V. Rao, T. Jaeger, T. F. La Porta, P. McDaniel. November 2009. On Cellular Botnets: Measuring the Impact of Malicious Devices on a Cellular Network Core. *Proceedings of the Sixteenth ACM Conference on Computer and Communications Security (CCS 2009)*. pp. 223-234. Chicago, IL.

(First author co-supervised and second author supervised by candidate) (Acceptance rate: 18.4%)

206. Kim, T-S., S. Vural, I. Broustis, D. Syrivelis, S. V. Krishnamurthy, T. F. La Porta. March 2010. A Framework for Joint Network Coding and Transmission Rate Control in Wireless Networks. *Proceedings of the IEEE Conference on Computer Communication (INFOCOM 2010)*. pp. 2937-2945. San Diego, CA. (Peer reviewed)
207. Bartolini, N., T. Calamoneri, T. F. La Porta, S. Silvestri. March 2010. Mobile Sensor Deployment in Unknown Fields. *Proceedings of the IEEE INFOCOM Mini-Symposium on Hardware and Sensors*. pp. 471-475. San Diego, CA. (Peer reviewed)
208. Chen*, F., M. Johnson, A. Bar-Noy, T. F. La Porta. April 2010. Cooperative Data Dissemination to Mission Sites. *Proceedings of the SPIE Defense Security and Sensing Conference 2010*. 7 pages. Orlando, FL. (First author supervised by candidate)
209. Eswaran*, S., A. Misra, T. F. La Porta, F. Bergamaschi. April 2010. Implementation of Utility Based Resource Optimization Protocols on ITA Sensor Fabric. *Proceedings of the SPIE Defense Security and Sensing Conference 2010*. 8 pages. Orlando, FL. (First author supervised by candidate)
210. Lin*, M., H. Choi*, T. F. La Porta. August 2010. Network Integration in 3G and 4G Wireless Networks. *Proceedings of the Fourth IEEE International Workshop on Wireless Mesh and Ad Hoc Networks (WiMAN 2010)*. 8 pages. Zurich, Switzerland. (First two authors supervised by candidate)
211. Kumar*, R., S. Tati*, F. de Mello, S. V. Krishnamurthy, T. F. La Porta. October 2010. Network Coding Aware Rate Selection in Multi-rate IEEE 802.1. *Proceedings of the Eighteenth IEEE International Conference on Network Protocols (ICNP 2010)*. pp. 99-102. Kyoto, Japan. (First two authors supervised by candidate)
212. Cirincione, G., R. Govindan, S. Krishnamurthy, T. F. La Porta, P. Mohapatra. October 31-November 3, 2010. Impact of Security Properties on the Quality of Information in Tactical Military Networks. *Proceedings of the IEEE Military Communications Conference (MILCOM 2010)*. pp. 1-6. San Jose, CA.
213. Bhajat*, A., G. Cao, B. Krishnamachari, T. F. La Porta. October 31-November 3, 2010. Leveraging Social Networks for Key Distribution to Secure Communication in Tactical Military Networks. *Proceedings of the IEEE Military Communications Conference (MILCOM 2010)*. pp. 26-31. San Jose, CA. (First author supervised by candidate)
214. Alayev, Y., A. Bar-Noy, M. Johnson*, L. M. Kaplan, T. F. La Porta. November 2010. You Can't Get There from Here: Sensor Scheduling with Refocusing Delays. *Proceedings of the IEEE Seventh International Conference on Mobile Adhoc and Sensor Systems (MASS 2010)*. pp. 462-471. San Francisco, CA. (Third author supervised by candidate)
215. Traynor*, P., J. Schiffman, T. F. La Porta. December 2010. Constructing Secure Localization Systems with Adjustable Granularity Using Commodity Hardware. *Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2010)*. 6 pages. Miami, FL. (First author co-supervised by candidate)
216. Bar-Noy, A., G. Cirincione, R. Govindan, S. Krishnamurthy, T. F. La Porta, P. Mohapatra, M. Neely, A. Yener. March 2011. Quality of Information-Aware Networking for Tactical Military Networks. *Proceedings of the Third International Workshop on Information Quality and Quality of Service for Pervasive Computing (IQ2S 2011)*. pp. 2-7. Seattle, WA.
217. Chen*, F., D. Pizzacaro, M. Johnson*, A. Preece, A. Bar-Noy, T. F. La Porta. April 2011. Broadcast Scheduling with Data Bundles. *Proceedings of the SPIE Defense,*

Security, and Sensing 2011. 8 pages. Orlando, FL. (First and third authors supervised by candidate)

218. Johnson*, M., T. F. La Porta, A. Yener, R. Govindan, K. Spounis, R. Ramanthan. April 2011. Operational Information Content Capacity. *Proceedings of the SPIE Defense, Security, and Sensing 2011*. 7 pages. Orlando, FL. (First author supervised by candidate)
219. Asterjadhi, A., R. Kumar*, T. F. La Porta, M. Zorzi. June 2011. Broadcasting in Multi Channel Wireless Networks in the Presence of Adversaries. *Proceedings of the Eighth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2011)*. pp. 377-385. Salt Lake City, UT. (Second author supervised by candidate)
220. La Porta, T. F., C. Petrioli, D. Spenza. June 2011. Sensor-mission Assignment in Wireless Sensor Networks with Energy Harvesting. *Proceedings of the Eighth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2011)*. pp. 413-421. Salt Lake City, UT.
221. Kumar*, R., S. Eswaran*, T. F. La Porta. June 2011. End-to-End Rate Selection for Opportunistic Reception in Multi-Rate Wireless Network. *Proceedings of the Eighth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2011)*. pp. 601-609. Salt Lake City, UT. (First two author supervised by candidate)
222. Pizzocaro, D., A. Preece, F. Chen*, T. F. La Porta, A. Bar-Noy. June 2011. A Distributed Architecture for Heterogeneous Multi-Sensor Task Allocation. *Proceedings of the Seventh IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2011)*. 8 pages. Barcelona, Spain. (Third author supervised by candidate)
223. Kumar* R., G. Maselli, C. Petrioli, T. F. La Porta. October 31-November 4, 2011. Interference Cancellation-based RFID Tag Identification. Proceedings of the *Fourteenth ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2011)*. pp. 111-118. Miami Beach, FL. (First author supervised by candidate)
224. Zhuo, X., Q. Li, G. Cao, Y. Dai, B. Szymanksi, T. F. La Porta. October 2011. Social-Based Cooperative Caching in DTNs: A Contact Duration Aware Approach. *Proceedings of the Eighth IEEE International Conference on Mobile and Ad Hoc Sensor Systems (MASS 2011)*. pp. 92-101. Valencia, Spain. (Li presented)
225. Tati*, S., S. Rager*, B. J. Ko, G. Cao, A. Swami, T. F. La Porta. October 2011. netCSI: A Generic Fault Diagnosis Algorithm for Large Scale Failures in Computer Networks. *Proceedings of the Thirtieth International Symposium on Reliable and Distributed Systems (SRDS 2011)*. Madrid, Spain. (First two authors supervised by candidate)
226. Rager*, S., E. Ciftcoglu, A. Yener, T. F. La Porta, M. J. Neely. November 2011. Distributed Backpressure Protocols with Limited State Feedback. *Proceedings of the IEEE Military Communications Conference (MILCOM 2011)*. pp. 693-698. Baltimore, MD. (First author supervised by candidate)
227. Zhang, Y., S. Ray*, G. Cao, T. F. La Porta. November 2011. Data Replication in Mobile Tactical Networks. *Proceedings of the IEEE Military Communications Conference (MILCOM 2011)*. pp. 797-803. Baltimore, MD. (Second author supervised by candidate)

228. Zheng, Q., G. Cao, A. Swami, T. F. La Porta. November 2011. Detecting and Localizing Large-Scale Router Failures Using Active Probes. *Proceedings of the IEEE Military Communications Conference (MILCOM 2011)*. pp. 1170-1175. Baltimore, MD.
229. Chen*, F., K. Guo, J. Lin, T. F. La Porta. March 2012. Intra-cloud Lightning: Building CDNs in the Cloud. *Proceedings of the Thirty-First Annual International Conference on Computer Communications (INFOCOM 2012)*. pp. 433-441. Orlando, FL. (First author supervised by candidate)
230. Bahjat*, A. Y. Jiang, T. Cook, T. F. La Porta. March 2012. Quality of Information Functions for Networked Applications. *Proceedings of the Tenth Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2012) Workshops*. pp. 2-7. Lugano, Switzerland. (First author supervised by candidate)
231. Chen*, F., T. F. La Porta, D. Pizzocaro, A. Preece, M. Srivastava. April 2012. A System Architecture for Exploiting Mission Information Requirement and Resource Allocation. *Proceedings of the SPIE Defense, Security, and Sensing 2012*. 9 pages. Baltimore, MD. (First author supervised by candidate)
232. Tang, L., Q. Gu, X. Yu, J. Han, T. F. La Porta, A. Leung, T. Abdelzaher, L. Kaplan. April 2012. IntruMine: Mining Intruders in Untrustworthy Data of Cyber-Physical Systems. *Proceedings of the Twelfth SIAM International Conference on Data Mining (SDM 2012)*. pp. 600-611. Anaheim, CA.
233. Alayev, Y., F. Chen*, Y. Hou, M. Johnson*, A. Bar-Noy, T. F. La Porta, K. Leung. May 2012. Throughput Maximization in Mobile WSN Scheduling with Power Control and Rate Selection. *Proceedings of the Eighth IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2012)*. pp. 33-40. Hangzhou, China. (Second author supervised by candidate)
234. Chen*, F., T. F. La Porta, M. Srivastava. May 2012. Resource Allocation with Stochastic Demands. *Proceedings of the Eighth IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2012)*. pp. 257-264. Hangzhou, China. (First author supervised by candidate)
235. Zheng, Q., G. Cao, T. F. La Porta, A. Swami. June 2012. Optimal Recovery from Large-Scale Failures in IP Networks. *Proceedings of the Twenty-Third IEEE International Conference on Distributed Computing Systems (ICDCS 2012)*. pp. 295-304. Macau, China.
236. Chen*, F., M. Johnson*, A. Bar-Noy, T. F. La Porta. June 2012. Convergecast with Aggregatable Data Classes. *Proceedings of the Ninth Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON 2012)*. pp. 148-156. Seoul, South Korea.
237. Tati*, S., B.-J. Ko, G. Cao, A. Swami, T. F. La Porta. June 2012. Adaptive Algorithms for Diagnosing Large-Scale Failures in Computer Networks. *Proceedings of the IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2012)*. 12 pages. Boston, MA. (First author supervised by candidate)
238. Ra, M.-R., B. Liu, T. F. La Porta, R. Govindan. June 2012. Medusa: A Programming Framework for Crowd-Sensing Applications. *Proceedings of the Tenth International Conference on Mobile Systems, Applications, and Services (MobiSys 2012)*. pp. 337-350. Ambleside, UK.

239. Lin*, M., T. F. La Porta. July 30-August 2, 2012. Dynamic Interference Management with Femotcells. *Proceedings of the Twenty-First IEEE International Conference on Computer Communication Networks (ICCCN 2012)*. 9 pages. Munich, Germany. (First author supervised by candidate)
240. De Coppi, N., J. Ning, G. Papageorgiou, M. Zorzi, S. Krishnamurthy, T. F. La Porta. July 30-August 2, 2012. Network Coding-Aware Queue Management in Multi-Rate Wireless Networks. *Proceedings of the Twenty-First IEEE International Conference on Computer Communication Networks (ICCCN 2012)*. 7 pages. Munich, Germany.
241. Kim*, E. Y., P. McDaniel, T. F. La Porta. September 2012. A Detection Mechanism for SMS Flooding Attacks in Cellular Networks. *Proceedings of the Eighth International Conference on Security and Privacy in Communication Networks (SECURECOMM 2012)*. 18 pages. Padua, Italy. (First author supervised by candidate)
242. Ramanathan, R. A. Samanta, T. F. La Porta. October 2012. Symptotics: A Framework for Analyzing the Scalability of Real-World Wireless Networks. *Proceedings of the Ninth ACM Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN 2012)*. pp. 31-38. Paphos, Cyprus.
243. Papageorgiou, G., S. Singh, S. V. Krishnamurthy, R. Govindan, T. F. La Porta. October 30-November 2, 2012. Distortion-Resilient Routing for Video Flows in Wireless Multi-hop Networks. *Proceedings of the Twentieth IEEE International Conference on Network Protocols (ICNP 2012)*. 10 pages. Austin, TX.
244. Atya, A.F., I. Broustis, S. Singh, D. Syrivelis, S.V. Krishnamurthy, T. F. La Porta. April 2013. Wireless Network Coding: Deciding When to Flip the Switch. *Proceedings of the IEEE INFOCOM Mini-Conference*. pp. 260-264. Turin, Italy.
245. Feng, Z., G. Papageorgiou, S.V. Krishnamurthy, R. Govindan, T. F. La Porta. April 2013. Trading Off Distortion for Delay for Video Transmissions in Wireless Networks. *Proceedings of the IEEE INFOCOM Mini-Conference*. pp. 1878-1886. Turin, Italy.
246. Bartolini, N., G. Bongiovanni, T. F. La Porta, S. Silvestri*. April 2013. On the Security Vulnerabilities of the Virtual Force Approach to Mobile Sensor Deployment. *Proceedings of the Thirty-Second IEEE International Conference on Computer Communications (INFOCOM 2013)*. pp. 2418-2426. Turin, Italy.
247. Tang, L., X. Yu, S. Kim, Q. Gu, J. Han, A. Leung, T. F. La Porta. August 2013. Mining Lines in the Sand: On Trajectory Discovery from Untrustworthy Data in Cyber-Physical System. *Proceedings of the Nineteenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2013)*. pp. 410-418. Chicago, IL.
248. Yang, Y., N. Chawla, P. Basu, B. Prabhala*, T. F. La Porta. August 2013. Link Prediction in Human Mobility Networks. *Proceedings of the Advances in Social Networks Analysis and Mining (ASONAM 2013)*. pp. 380-387. Niagara, ON, Canada.
249. Lin*, M., T. F. La Porta. September 2013. Utility-based Femto-cell Pilot Management. *Proceedings of the Twenty-Fourth Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2013)*. London, UK.

250. Papageorgiou, G., J. Gasparis, S. V. Krishnamurthy, R. Govindan, T. F. La Porta. December 2013. Resource Thrifty Secure Mobile Video Transfer on Open WiFi Networks. *Proceedings of the Ninth ACM International Conference on Emerging Network Experiments and Technologies (CoNext 2013)*. 12 pages. Santa Barbara, CA.
251. Holbert*, B., S. Tati*, S. Silvestri*, A. Swami, T. F. La Porta. November 2013. Effects of Partial Topology on Fault Diagnosis. *Proceedings of the Military Communications Conference (MILCOM 2013)*. pp. 725-730. San Diego, CA.
252. Ciftioglu*, E., R. Ramanathan, T. F. La Porta. November 2013. Scalability Analysis of Tactical Mobility Patterns. *Proceedings of the Military Communications Conference (MILCOM 2013)*. pp. 1888-1893. San Diego, CA.
253. Hu*, N., D. Pizzocaro, M. P. Johnson, T. F. La Porta, A. Preece. October 2013. Resource Allocation with Non-Deterministic Demands and Profits. *Proceedings of the Tenth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2013)*. pp. 145-153. Hangzhou, China.
254. Ciftcioglu, E. N., A. Michaloliakos, K. Psounis, T. F. La Porta, A. Yener. April 2014. Power Minimization with Quality-of-information Outages. *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2014)*. pp. 1655-1660. Istanbul, Turkey.
255. Lin*, M., T. F. La Porta. April 2014. Energy-aware Enterprise Femtocell Deployment. *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2014)*. pp. 2312-2317. Istanbul, Turkey.
256. Prabhala*, B., J. Wang, B. Deb, T. F. La Porta, J. Han. April 2014. Leveraging Periodicity in Human Mobility for Next Place Prediction. *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2014).* pp. 2665-2670. Istanbul, Turkey.
257. Rager*, S., E. Ciftcioglu, T. F. La Porta, A. Leung, W. Dron, R. Ramanathan, J. Hancock. May 2014. Data Selection for Maximum Coverage in Sensor Networks with Cost Constraints. *Proceedings of the IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2014)*. pp. 209-216. Marina Del Ray, CA.
258. Bartolini, N., G. Bongiovanni, T. F. La Porta, S. Silvestri*, F. Vincenti. June 2014. Voronoi-based Deployment of Mobile Sensors in the Face of Adversaries. *Proceedings of the IEEE International Conference on Communications (ICC 2014)*. pp. 532-537. Sydney, Australia.
259. Tati*, S., S. Silvestri*, T. He, T. F. La Porta. June 30-July 3, 2014. Robust Network Tomography in the Presence of Failures. *Proceedings of the Thirty-Fourth IEEE International Conference on Distributed Computing Systems (ICDCS 2014)*. Pp. 481-492. Madrid, Spain.
260. Rager*, S. T., E. N. Ciftcioglu, T. F. La Porta. August 2014. Performance Analysis of Practical Distributed Backpressure Protocols. *Proceedings of the Twenty-Third International Conference on Computer Communication and Networks (ICCCN 2014)*. pp. 1-8. Shanghai, China.
261. McDaniel, P., T. Jaeger, T. F. La Porta, N. Papernot, R. J. Walls, A. Kott, L. M. Marvel, A. Swami, P. Mohapatra, S. V. Krishnamurthy, I. Neamtiu. November 2014. Security and Science of Agility. *Proceedings of the First ACM Workshop on Moving Target Defense (MTD 2014)*. pp. 13-19. Scottsdale, AZ. **(Keynote Address)**

262. Dao, T., A. K. Roy-Chowdhury, H. V. Madhyastha, S. V. Krishnamurthy, T. F. La Porta. December 2014. Managing Redundant Content in Bandwidth Constrained Wireless Networks. P*roceedings of the Tenth ACM International on Conference on Emerging Networking Experiments and Technologies (CoNEXT 2014)*. pp. 349-362. Sydney, Australia.
263. Silvestri*, S., B. Holbert*, P. Novotny, T. F. La Porta, A. Wolf, A. Swami. January, 2015. Inferring Network Topologies in MANETs Applied to Service Redeployment. *Proceedings of 17th International Conference on Computer Communications and Networks (ICCN),* Zurich, Switzerland.
264. Holbert*, B., S. Tati*, S. Silvestri*, T. F. La Porta, A. Swami. February 2015. Network Topology Inference with Partial Path Information. *Proceedings of the International Conference on Computing, Networking and Communications (ICNC 2015)*. pp. 796-802. Garden Grove, CA.
265. Mukherjee*, M., J. Edwards*, H. Kwon, T. F. La Porta. March 2015. Quality of Information-aware Real-time Traffic Flow Analysis and Reporting. *Proceedings of the 2015 IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops*. pp. 69-74. St. Louis, MO.
266. Prabhala*, B., T. F. La Porta. April 26-May 1, 2015. Next Place Predictions Based on User Mobility Traces. *Proceedings of the 2015 IEEE Conference on Computer Communications Workshops, INFOCOM Workshops.* pp. 93-94. Hong Kong, China.
267. Hu*, N., T. F. La Porta, N. Bartolini. October, 2015. Self-Adaptive Resource Allocation for Event Monitoring with Uncertainty in Sensor Networks. *Proceedings of the 12th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS 2015).* Dallas, TX.
268. M. Lin*, S. Silvestri*, N. Bartolini, T.F. La Porta. October, 2015. Energy-Efficient Selective Activation in Femtocell Networks. *Proceedings of the 12th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS 2015).* Dallas, TX.
269. J. Edwards, T. Cassidy, G. de Mel, T. F. La Porta, "Integrating Quality of Information with Pragmatic Assistance," Proc. of IEEE 13th International Workshop on Managing Communications and Services, 2016.
270. S. Rager, E. Ciftioglu, R. Ramanathan, T.F. La Porta, R. Govindan, "Scalability and Satisfiability of Quality of Information in Wireless Networks," Proc. of IEEE WCNC, 2016.
271. Z. Lu, G. Cao, T.F. La Porta, "Networking Smartphones for Disaster Recovery," Proc. of IEEE PERCOM, 2016.
272. T. He, N. Bartolini, H. Khamfroush, I. Kim, L. Ma, T.F. La Porta, "Service Placement for Detecting and Localizing Failures Using End-to-End Observations", Proc. of IEEE ICDCS, 2016.
273. N. Bartolini, S. Ciavarella, T. F. La Porta, S. Silvestri, "Network Recovery After Massive Failures," IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2016).
274. "S. Achleitner, T.F. La Porta, S. Krishnamurthy, V.S. Quizhpi, "Network Coding Efficiency in the Presence of an Intermittent Backhaul Network," Proc. of IEEE ICC 2016.
275. M. Lin, N. Bartolini, T. F. La Porta, "Power Adjustment and Scheduling in OFDMA Femtocell Networks," Proc. of IEEE INFOCOM, 2016.

276. Z. Lu, X. Sun, T. F. La Porta, "Cooperative Data Offloading in Opportunistic Mobile Networks," Proc. of IEEE INFOCOM, 2016.
277. N. Felemban, Z. Lu, T.F. La Porta, K. Chan, K, "Video processing of complex activity detection in resource-constrained networks," 2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP). IEEE, 2016.
278. S. Achleitner, S. Sugrim, P. McDaniel, S. Krishnamurthy, R. Chadha, T.F. La Porta, "Cyber Deception: Virtual Networks to Defend Insider Reconnaissance," Proc. Of ACM Workshop on Managing Insider Security Threats (MIST) 2016.
279. Z. Lu, K. Chan, R. Urgaonkar, T.F. La Porta, "On-demand Video Processing in Wireless Networks," Proc. Of IEEE ICNP, 2016.
280. Z. B. Celik, N. Hu, Y. Li, N. Papernot, P. Mc Daniel, R. Walls, J. Rowe, K. Levitt, N. Bartolini, T.F. La Porta, R. Chadha, "Mapping Sample Scenarios to Operational Models," Proc. Of IEEE MILCOM, 2016.
281. J. Edwards, R. Passonneau, T. Cassidy, T.F. La Porta, "Resource Allocations for Pragamatically-assisted Quality of Information-Aware Networking," Proc. of IEEE ICCCN, 2017.
282. D. Tootaghaj, H. Khamfroush, N. Bartolini, S. Ciaverelli, S. Hayes, T.F. La Porta, Network Recovery from Massive Failures and Uncertain Knowledge of Failures," IFIP Networking, 2017.
283. S. Achleitner, T.F. La Porta, P. McDaniel, S. Krishnamurthy, A. Poylisher, C. Serban, "Stealth Migration: Hiding Virtual Machines on the Network," Proc. of IEEE INFOCOM, 2017.
284. S. Ciavarella, N. Bartolini, H. Khamfroush, T.F. La Porta, "Progressive Damage Assessment and Network Recovery After Massive Failures," Proc. of IEEE INFOCOM, 2017.
285. A. Atya, Z. Qian, S. Krishnamurthy, T.F. La Porta, P. McDaniel, L. Marvel, "Malicious Co-Residency on the Cloud: Attacks and Defense," Proc. of IEEE INFOCOM 2017.
286. S. Achleitner, T.F. La Porta, T. Jaeger, P. McDaniel, "Adversarial Network Forensics in Software Defined Networking, Proc of ACM Symposium on SDN Research, 2017. **Best student paper.**
287. D. Tootaghaj, H. Khamfroush, N. Bartolini, S. Ciaverelli, S. Hayes, T.F. La Porta, "Network Recovery from Massive Failures and Uncertain Knowledge of Failures," IFIP Networking, 2017.
288. J. Edwards, R. Passonneau, T. Cassidy, T.F. La Porta, "Resource Allocations for Pragamatically-assisted Quality of Information-Aware Networking," Proc. of IEEE ICCCN, 2017.
289. D. Z. Tootaghaj, N. Bartolini, H. Khamfroush, T.F. La Porta, "Controlling Cascading Failures in Interdependent Networks under Incomplete Knowledge," Proc. of 36th Symposium on Reliable Distributed Systems, 2017.
290. J. Acquaviva, M. Mahon, B. Einfalt, and T.F. La Porta, "Optimal Cyber-Defense Strategies for Advanced Persistent Threats: A Game Theoretical Analysis," Proc. of 36th Symposium on Reliable Distributed Systems, 2017.
291. A. Atya, A. Aqil, K. Khalil, Z. Qian, S. V. Krishnamurthy, T. F. La Porta, "Stalling Live Migrations on the Cloud," Proc. of 11th USENIX Workshop on Offensive Technologies (WOOT), 2017.

292. Z. Lu, S. Rallapalli, K. Chan, T.F. La Porta, “Modeling Resource Requirements of Convolutional Neural Networks on Mobile Devices,” Proc. of ACM Multimedia, 2017.
293. D. Z. Tootaghaj, T. He, T.F. La Porta, “Parsimonious Tomography: Optimizing Cost-Identifiability Trade-off for Probing-based Network Monitoring,” IFIP Performance, 2017.
294. Z. Lu, K. Chan, T.F. La Porta, “A Computing Platform for Video Crowdprocessing Using Deep Learning,” Proc. Of IEEE INFOCOM, 2018.
295. Y. Cao, A. Atya, S. Singh, Z. Qian, S. Krishnamurthy, T. La Porta, P. Krishnamurthy and L. Marvel “A Framework for MIMO-based Packet Header Obsfucation,” Proc. of IEEE INFOCOM, 2018.
296. T. He, H. Khamfroush, S. Wang, S. Stein, T.F. La Porta, “It's Hard to Share: Joint Service Placement and Request Scheduling in Edge Clouds with Sharable and Non-sharable Resources,” Proc. of IEEE ICDCS, 2018.
297. S. Saghaian, T.F. La Porta, T. Jaeger, B. Celik, P.McDaniel, “Mission-oriented Security Model, Incorporating Security Risk, Cost and Payout,” International Conference on Security and Privacy in Communication Networks (SECURECOMM), 2018 (**best paper**).
298. G. Bent, G. de Mel, R Ganti, T. F. La Porta, G. Pearson, T. Pham, S. Stein., A. Swami, L. Tassiulas, I. Taylor, “Learning Service Semantics for Self-organization in Distributed Environments: Concepts and Research Directions, Proc. of IEEE MILCOM, 2018.
299. V. Walls, H. Kwon, T.F. La Porta, S. Stein, L. Tassiulas, “On the Design of Resource Allocation Algorithms for Low-Latency Video Analytics,” Proc. of IEEE MILCOM, 2018.
300. H. Alhulayyil, K. Khalil, S. Krishnamurthy, D. Cansever, T. F. La Porta, A. Swami, “On the Detection of Adaptive Side-channel Attackers in Cloud Environments,” Proc. of IEEE Globecom CISS, 2018.
301. M. Ochal, S. Stein, F. Bi, M. Cook, E. Gerding, T. He and T. La Porta, “Online Mechanism Design using Reinforcement Learning for Cloud Resource Allocation,” Proc of 2nd Workshop on Advances in Augmentation in Artificial Intelligence,” 2018.
302. N. Desai, W. Chong, H. Achilles, S. Daijavad, T.F. La Porta, “Large-Scale Hybrid Ad Hoc Network for Mobile Platforms: Challenges and Experiences,” Proc. of IEEE SMARTCOMP, 2019.
303. F. Mehmeti, and T. F. La Porta, "Optimizing 5G Performance by Reallocating Unused Resources," in Proc. of IEEE ICCCN 2019, Valencia, Spain.
304. F. Mehmeti, T.F. La Porta, “Admission Control for Consistent Users in Next Generation Cellular Networks,” Proc. of IEEE International Conference on Communications (ICC), 2019.
305. V. Farhadi, F. Mehmeti, T.F. La Porta, T. He, H. Khamfroush, S. Wang, K.S. Chan, “Service Placement and Request Scheduling for Data-intensive Applications in Edge Clouds,” Proc. of IEEE INFOCOM, 2019.
306. S. Gharebaghi, S. G. Vennelaganti, N. R. Chaudhuri*, T. He, T. La Porta, “Solving the Divergence Problem in AC-QSS Cascading Failure Model by Introducing the

Effect of a Realistic UVLS Scheme," 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 2020.

307. K. Wheatman, F. Mehmeti, M. Mahon, H. Qui, K. Chan, T.F. La Porta, "Optimal Resource Allocation for Crowdsourced Image Processing," Proc. of IEEE SECON, 2020.
308. S. Stein, M. Ochal, I.-A. Moisoiu, E. Gerding, R. Ganti, T. He, T.F. La Porta, "Strategyproof Reinforcement Learning for Online Resource Allocation," Proc. of Adaptive Agents and Multi-Agents Systems (AAMAS), 2020.
309. P. Basu, T. Salonidis, B. Kraczek, S. Saghaian, A. Sydney, B-J. Ko, T.F. La Porta, K. S. Chan, "Decentralized placement of data and analytics in wireless networks for energy-efficient execution," Proc. of IEEE INFOCOM, 2020.
310. Q. Burke, P.McDaniel,T. La Porta, M. Yu, T. He, Misreporting Attacks in Software-Defined Networking," Proc of 16th EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2020).
311. S. M. Saghaian, T.F. La Porta, S. Silvestri, P. McDaniel, "Improving Robustness of a Popular Probabilistic Clustering Algorithm Against Insider Attacks," Proc of 16th EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2020).
312. I. Barclay, C. Simpkin,. G. Bent, T. La Porta, D. Miller, A. Preece, I. Taylor, D. Verma, "Enabling Discoverble Trsuted Services for Highly Dynamic Decentralized Workflows," Proc of 15th Workshop on Workflows in Support of Large-Scale Science (WORKS20), held in conjunction with SC20, 2020.
313. K. Wheatman, F. Mehmeti, M. Mahon, T.F. La Porta, G. Cao, "(Multi-User Competitive Energy-Aware and QoE-Aware Video Streaming on Mobile Devices," Proc. of Q2SWINet'20 held in conjunction with ACM MSWiM, 2020.
314. Y. Huang, T. He, N. Chaudhuri, T.F. La Porta, "Power Grid State Estimation under General Cyber-Physical Attacks," Proc. of 2020 IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm) - Cyber Security and Privacy Symposium, 2020.
315. S. Shringarputale, P. McDaniel, K. Butler, T. La Porta, "Co-residency Attacks on Containers are Real," The ACM Cloud Computing Security Workshop, 2020.
316. C. Rublein, F. Mehmeti, M. Towers, S. Stein, T.F. La Porta, "Online Resource Allocation in Edge Computing Using Distributed Bidding Approaches," Proc. of IEEE MASS 2021.
317. N. Felemban, F. Mehmeti, H. Kwon, T.F. La Porta, "EDIR: Efficient Distributed Image Retrieval of Novel Objects in Mobile Networks," Proc. of IEEE MASS 2021.
318. Z. Wang, S. Zhu, K. Man, P. Zhu, Y. Hao, Z. Qian, S. Krishnamurthy, T. La Porta, M. De Lucia, "Ambiguity-Aware Network Intrusion Detection based on Symbolic Model Comparison," Proc. of ACM CCS 2021..
319. V. Farhadi, S. G. Vennelaganti, T. He, N. Ray Chaudhuri and T. La Porta, "Budget-Constrained Reinforcement of SCADA for Cascade Mitigation," Proc of IEEE International Conference on Computer Communications and Networks (ICCCN 2021).
320. S. Gharebaghi, G. Vennelaganti, N. Ray Chaudhuri, T. He, T.F. La Porta, "A More Realistic AC-QSS Cascading Failure Model with Decentralized UVLS and

Centralized RAS," Proc of IEEE Power and Energy Society General Meeting, Washington, D.C., July, 2021.

321. F. Mehmeti, T.F. La Porta, "Modeling and Analysis of mMTC Traffic in 5G Base Stations," Proc. of IEEE Consumer Communications & Networking Conference (CCNC), 2021.
322. N. Felemban, F. Mehmeti, T.F. La Porta, "VidQ: Video Query Using Optimized Audio-Visual Processing," International Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet '21), in conjunction with ACM MSWIM, 2021.
323. F. Mehmeti, T.F. La Porta, "Admission Control for mMTC Traffic in 5G Networks," International Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet '21), in conjunction with ACM MSWIM, 2021.
324. F. Mehmeti, T.F. La Porta, "Resource Allocation for Improved User Experience with Live Video Streaming in 5G," International Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet '21), in conjunction with ACM MSWIM, 2021.
325. F. Mehmeti, T.F. La Porta, "Efficient Resource Allocation with Constrained Rate Variability in Cellular Networks," International Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet '21), in conjunction with ACM MSWIM, 2021.
326. F. Mehmeti, T.F. La Porta, "Admission Control for URLLC Users in 5G Networks," 24th International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (ACM MSWIM), 2021.
327. F. Mehmeti, T.F. La Porta, "Minimizing Rate Variability with Effective Resource Utilization in 5G Networks," Proc. of 19th ACM International Symposium on Mobility Management and Wireless Access (MobiWac), 2021. **Best Paper**
328. Y. Huang, T. He, N. Chaudhuri, T.F. La Porta, "Preventing Outages under Coordinated Cyber-Physical Attack with Secured PMUs," Proc. of 2021 IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm) - Cyber Security and Privacy Symposium, 2021.

Patents (with various co-inventors)

329. **5,434,852 (7/18/95)**: Distributed Processing Architecture for Control of Broadband and Narrowband Communication Networks
330. **5,473,679 (12/5/95)**: A Signaling System for Broadband Communications Networks
331. **5,509,010 (4/16/96)**: Communications Signaling Protocols
332. **5,563,939 (10/8/96)**: Method and System for Delivering a Communication Service
333. **5,570,367 (10/29/96)**: Asymmetric Protocol for Wireless Communications
334. **5,600,663 (2/4/97)**: Adaptive Forward Error Correction System
335. **5,659,544 (8/19/97)**: Method and System for Distributed Control in Wireless Cellular and Personal Communications Networks
336. **5,918,158 (6/28/99)**: Two-Way Wireless Messaging System
337. **5,943,408 (8/24/99)**: Flexible Direct Signaling System
338. **5,943,334 (8/24/99)**: Method of Using an Intelligent Mobile Terminal for Reconnecting Calls in a Wireless Network

339. **5,953,331 (9/14/99)**: Wireless Packet System for Efficient Wide Area Bandwidth Utilization
340. **5,959,543 (9/28/99)**: Two-Way Wireless Messaging System with Flexible Messages
341. **5,970,122 (10/19/99)**: Two-Way Wireless Messaging System Having a User Agent
342. **5,974,300 (10/26/99**): Two-Way Wireless Cellular Messaging System
343. **6,014,429 (1/11/00)**: Two-Way Wireless Cellular Messaging System with Transaction Server
344. **6,016,319 (1/18/00)**: Communication System for Transmission of Datagram Packets Over Connection-Oriented Networks
345. **6,041,103 (3/21/00)**: Interactive Call Identification
346. **6,081,715 (6/27/00)**: Method and System for Distributed Control in Wireless and Cellular Personal Communication Systems
347. **6085086 (7/4/00)**: Network-Based Migrating User Agents for Personal Communication Services
348. **6192250 (2/20/01)**: A Cluster Mobile Switching Center
349. **6215782 (4/1/01)**: Method for Reconnecting Calls in a Wireless Telecommunications System
350. **6298039 (10/2/01)**: High Availability Distributed Call Processing Method and Apparatus
351. **6,434,134 (8/13/02)**: Method and System for Distributed Control in Wireless and Cellular Personal Communications Systems
352. **6,483,853 (11/19/02):** Communications system for transmission of datagram packets over connection-oriented Networks
353. **6,496,505 (12/17/02)**: Packet Tunneling Optimization To Wireless Devices Accessing Packet-Based Wired Network
354. **6,516,000 (2/4/03)**: Communications System For Transmission Of Datagram Packets Over Connection-Oriented Networks
355. **6,654,359 (11/25/03)**: Wireless Access To Packet-Based Networks
356. **6,763,007 (7/13/04)**: Two Phase Local Mobility Scheme For Wireless Access To Packet Based Networks
357. **6,842,462 (1/11/05)**: Wireless Access Of Packet Based Networks
358. **7,085,260 (8/1/06)**: Internet protocol based wireless call processing
359. **7,120,453 (10/10/06)**: Paging of mobile hosts on an internet protocol network
360. **7,239,618 (7/3/07)**: Single phase local mobility scheme for wireless access to packet-based networks (Filed while at Bell Labs with several other inventors)
361. **7,340,253 (3/4/08)**: IP-based Distributed Wireless Access Network Architecture for CDMA Networks
362. **7,522,632 (4/21/09)**: Multiple-protocol home location register and method of use (with several co-inventors)
363. **7,554,967 (6/30/09)**: Transient tunneling for dynamic home addressing on mobile hosts (with several co-inventors)
364. **7,729,252 (6/1/2010)**: Methods and devices for providing fast and robust overload control
365. **7,822,416 (10/26/2010)**: Methods and systems for allowing global roaming between devices supported by different protocols