

Dmitri D. Perkins, Ph.D.

Curriculum Vitae

Professor, The Center for Advanced Computer Studies (CACS)
Director, Wireless Systems and Performance Engineering Research (WiSPER) Lab
School of Computing and Informatics
Ray P. Authement College of Sciences
University of Louisiana at Lafayette
P.O. Box 44330, Lafayette, LA 70504

Office: (337) 482 – 6732
Cell: (337) 322 – 1548
Fax: (337) 482 – 5791
perkins72@gmail.com
www.cacs.louisiana.edu/~perkins

EDUCATION

Ph.D.	Computer Science and Engineering	Michigan State University	2002
M.S.	Computer Science and Engineering	Michigan State University	1997
B.S.	Computer Science	Tuskegee University	1995

ACADEMIC EXPERIENCE

University of Louisiana at Lafayette, Lafayette Louisiana

<i>Professor</i>	The School of Computing and Informatics	Since August 2014
<i>Associate Dean</i>	Ray P. Authement College of Sciences (2-year appointment)	Jan. 2012 – Dec. 2013
<i>Associate Professor</i>	The Center for Advanced Computer Studies	2008 –2014
<i>Assistant Professor</i>	The Center for Advanced Computer Studies	2002 – 2008

GOVERNMENT AND INDUSTRY RESEARCH AND MANAGEMENT EXPERIENCE

- U.S. National Science Foundation, Arlington, VA
Program Director, Industry/University Cooperative Research Centers Program
The Directorate for Computer & Information Science & Engineering (CISE)
Computer and Network Systems Divisions (CNS)
August 2015 – Present
- U.S. Naval Research Laboratory (NRL), Washington, DC
Summer Research Fellow, Office of Naval Research
- Design and Evaluation of a Hierarchical Spectrum Sensing Architecture
- Situational Spectrum Awareness in Heterogeneous Networks
Summers 2013, 2014
- Michigan State Government, Lansing, MI
Engineering Fellow, Science & Technology Division
Summer 1998
- Bellcore Communications Research
Technical Staff Member, Network Solutions Division, Red Bank, New Jersey
Technical Staff Member, Software Systems Division, Piscataway, New Jersey
Summer 1997
Summer 1996
- MIT Lincoln Laboratories, Cambridge, MA
Technical Staff Member, Networking and Telecommunications Group
Summer 1994

LEADERSHIP, SERVICE, AND ADMINISTRATION

- ***Program Director, NSF Industry/University Cooperative Research Centers Program (I/UCRC)***
Currently, I serve as Program Director for the NSF Industry/University Cooperative Research Centers (I/UCRC) program in the Computer & Information Science & Engineering (CISE) Directorate. The NSF I/UCRC program promotes research partnerships between academic institutions and their industry and government counterparts. The goal is to establish centers that conduct pre-competitive research that is of interests and relevance to both the industry and the university, with the provision that industry members must provide major support to the center at all times. The NSF I/UCRC program provides base funding for Center management, formal operational agreements and frameworks, and pertinent mechanisms to leverage industry R&D investments with multi-university centers renowned for their innovative technical capabilities.

As a CISE Program Director, I manage all aspects of the CISE I/UCRC program and provide oversight for twenty-five CISE-funded Centers (involving over 75 US academic institutions, 5 international universities, and over 225 industry members). I am responsible for working effectively and proactively with I/UCRCs and their industry constituencies on a variety of key topics, ranging from membership and intellectual property issues, center management and evaluation, developing technology roadmaps aligned with US and industry demands, as well as enhancing Center growth and sustainability. Furthermore, to realize program goals, I am responsible for working across government agencies to promote NSF and I/UCRC program activities and to leverage program funds by forming and guiding industry and interagency collaborations. Additionally, I am responsible for soliciting, receiving, and reviewing center proposals, making funding recommendations, and administering awards.

- ***Professor and Director of WiSPER Laboratory***

Research Accomplishments: I am the *Hardy Edmiston Endowed Professor of Computer Science* in The Center for Advanced Computer Studies (CACCS) at the University of Louisiana at Lafayette. I received the NSF CAREER Award in 2005 and was selected as the Outstanding Professor in the College of Sciences in 2012. Currently, I am the Director of the *Wireless Systems and Performance Engineering Research (WiSPER) Laboratory*, which I founded in 2003 shortly after joining UL Lafayette. Our research has spanned several fields of mobile and wireless networking, including mobile ad hoc, sensor, broadband mesh, dynamic spectrum access, and cognitive radio networks. Sponsored, in part, by the National Science Foundation (NSF), General Electric (GE), the Department of Energy (DoE), and the Louisiana Board of Regents, our research work has generated one book on cognitive radio networking—published by Springer in 2012— and over 40 peer-reviewed articles in premier IEEE/ACM/Elsevier journals and top-tier conference proceedings (with acceptance rates 17%-35%). Our performance engineering work includes the design, implementation, and deployment of three distinct wireless networking testbeds, including a large-scale 70-acre multi-hop wireless network and a cognitive radio networking testbed instrumented with our own novel dynamic spectrum management architecture and protocols.

Students Supervised: During my tenure at the University of Louisiana at Lafayette, I have chaired or co-chaired eight Ph.D. dissertations and six MS theses and/or projects. Four of the six Ph.D. students currently hold positions at prominent companies in the wireless and communications industry and three hold academic positions. Currently, I am primary advisor to three Ph.D. students and co-advisor to a fourth.

Service to National Science Foundation: I have served on at least two National Science Foundation (NSF) proposal review panels per year since 2004, including CISE CNS Core Programs, Small Business Innovation Research (SBIR), CAREER, CISE Research Infrastructure (CRI), Enhancing Access to Radio Spectrum (EARS), and joint US-international initiatives. In 2009, I had the honor of serving on the NSF CISE-CNS Committee of Visitors (CoV).

Service to Department and School of Computing: In addition to my scholarly activities, I have served in multiple key administrative roles within CACS and the School of Computing and Informatics, including:

- Chair, Strategic Planning for School of Computing and Informatics
- Chair, Domestic Recruiting and Retention
- Co-Chair, Communications Networking Curriculum Development and Ph.D. Qualifying Exam
- Member, CACS Admissions committee
- Member, Computer Science accreditation committee
- Graduate Faculty Senate Representative

- ***Associate Dean, Ray P. Authement (RPA) College of Sciences, January 2012 – December 2013***

The RPA College of Sciences consists of two schools (Computing and Informatics and Geosciences) and four departments (Biology, Chemistry, Mathematics, and Physics). These units offer 8 B.S. degrees (Biology, Chemistry, Computer Science, Environmental Science, Geology, Informatics, Mathematics, and Physics), 6 M.S. degrees (Biology, Computer Science, Computer Engineering, Geology, Mathematics, and Physics), and 4 Ph.D. degrees (Biology, Computer Science, Computer Engineering, and Mathematics). The College has an

enrollment of 1729 undergraduate and 267 graduate students. The faculty consists of 41 full professors, 28 associate professors, 29 assistant professors and 25 instructors. I assumed the role of Associate Dean (a two-year appointment) in January 2012 and had several key responsibilities including:

- Strategic planning and implementation for entire RPA College of Sciences
 - College assessment and accreditation
 - Technical Liaison between College of Sciences and the Louisiana Immersive Technology Enterprise
 - Chair, RPA College of Sciences Deanship Search Committee, 2013
 - Member, Vice President of Research Search Committee, 2013 – 2014
- ***Graduate Council Member (2008-2010) and Chair (2010-2011)***
The Graduate Council is charged with establishing policies governing graduate education at the University. The policies are subject to approval by the Vice President for Academic Affairs, and must conform to policies and regulations of the University, the Board of Supervisors for the University of Louisiana System, the Board of Regents, and the State of Louisiana. As a member and chair of the graduate council, my primary responsibilities focused on policy matters, including:
 - Graduate Faculty Membership
 - Admission to and retention in graduate programs
 - Graduate Courses and Degree Requirements
 - Graduate Assistantships and Fellowships
 - Admission and Readmission Appeals

HONORS AND AWARDS

- ONR Summer Research Fellow, Naval Research Laboratory, Washington, DC, 2013 and 2014
- Outstanding Professor Award, The Ray P. Authement College of Sciences, 2012
- NSF/CNS Committee of Visitors, 2009
- Hardy Edmiston Endowed Professorship Award, 2008-present
- 2005 National Science Foundation CAREER Award Recipient
- GE Faculty for the Future Fellowship Award, 2000-2002
- Dissertation Fellowship, College of Engineering, Michigan State University, 2002
- Michigan State University Graduate Fellowship, Summer 2001
- GTE Fellowship Award Recipient, Michigan State University, 1996, 1998
- National Science Foundation (NSF) Fellowship, Honorable Mention Award, 1996, 1997
- Ford Foundation Doctoral Fellowship, Honorable Mention, 1997
- Presidential Citation Scholarship Award, Tuskegee University, 1991-1995

GRANTS AND FUNDING

1. “EAGER: Spectrum Situational Awareness-Understanding the Data”, National Science Foundation, October 2014 – September 2016, \$180,832; **PI: D. Perkins**
2. “MRI: Development: A Distributed Visual Analytics Sandbox for High Volume Data Streams”, National Science Foundation, August 2014 – July 2018, \$499,998.00, PI: Raju Gottumukkala; **Co-PIs: Ryan Benton, Christoph Borst, Vijay Raghavan, Dmitri Perkins**
3. “Cognitive Radio Networking and Hierarchical Sensing for Situational Awareness”, Louisiana Board of Regents LINK Program, 2013-2014, \$14,000.00; **PI: D. Perkins**
4. “Designing Large-scale Ad Hoc Networking Systems: Models, Analysis, and Protocols”, National Science Foundation, 2010 –2012, \$78,000; **PI: D. Perkins**
5. “Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources: Phase II”, Department of Energy and Louisiana Board of Regents, 2007–2010, Total = \$2,150,000,

UL Lafayette Portion = \$1,245,500; PI: N.-F. Tzeng; **Co-PIs: D. Perkins**, H. Wu, M. Bayoumi. Collaborators: Southern University and LSU.

6. “NSF CAREER: Designing Large-scale Ad Hoc Networking Systems: Models, Analysis, and Protocols”, National Science Foundation, 2005 –2010, \$400,000; **PI: D Perkins**
7. “Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources: Phase I”, Department of Energy and Louisiana Board of Regents, 2004–2007, Total = \$2,400,000, UL Lafayette portion = \$1,488,000; PI: N.-F. Tzeng, **Co-PIs: D. Perkins**, H. Wu, M. Bayoumi.
8. “Multipath QoS Routing in Mobile Ad Hoc Networks”, Louisiana Board of Regents Research Competitiveness Subprogram, 2003 –2006, \$105,000; **PI: D. Perkins**.
9. “Quality of Service Support in Mobile Wireless Networks”, Louisiana Board of Regents Research Enhancement Sub-program, 2003-2005, \$65,000; PI: Hongyi Wu, **Co-PI: D. Perkins**.
10. “Supporting Real-time Traffic over Mobile Ad Hoc Networks”, GE Foundation, 2003–2005, \$15,000; **PI: D. Perkins**.

PUBLICATIONS

Book

1. Ahmed Khattab, Dmitri Perkins, Magdy Bayoumi, *Cognitive Radio Networks: From theory to practice*. Springer, New York, August 2012. ISBN-10: 1461440327; ISBN-13: 978-1461440321

Book Chapter

2. Dmitri Perkins, R. Tumati, H. Wu, I. Ajbar. “Localization in Wireless Ad Hoc Networks” in *Resource Management in Wireless Networking*, edited by M. Cardei, I. Cardei, and D.-Z. Du, Springer Publishers, 2005, pp. 507-542.

Refereed Journal Articles

3. **Under review:** O.G. Olaleye, A. Aly, A. Ali, M.A. Iqbal, D. Perkins and M.A. Bayoumi, “Big-Spectrum-Data Synthesis for Improved Spectrum Awareness in Cognitive Radio Networks,” submitted to the 2017 IEEE Communications Magazine, July 2017.
4. **Under review:** O.G. Olaleye, A. Aly, A. Ali, M.A. Iqbal, D. Perkins and M.A. Bayoumi, “Towards Performance and Scalability Benchmarking of Spectrum Awareness in Heterogeneous Cognitive Radio Networks,” submitted to the 2017 IEEE Transactions on Cognitive Communications and Networking (TCCN), January, 2017.
5. Sajjad Pourmohammad, Afef Fekih, and Dmitri Perkins, “Stable Queue Management in Communications Networks,” *Elsevier Journal for Control Engineering Practice*, vol.37, 2015, pp. 67-79.
6. Reza Soosahabi, Naraghi-Pour, and Dmitri Perkins, “Optimal Probabilistic Encryption for Secure Detection in Wireless Sensor Networks,” *IEEE Transactions on Information Forensics and Security*, vol. 9, Issue 3, pp. 375-385, March 2014.
7. Khattab, A.; Perkins, D.; Bayoumi, M., “Design, Implementation and Characterization of Practical Distributed Cognitive Radio Networks,” *IEEE Transactions on Communications*, vol. 61, Issue 10, pp. 4139-4150, September 2013.
8. Yan He and D. Perkins, “Achieving Seamless Handoffs via Backhaul Support in Wireless Mesh Networks,” *Springer Telecommunications System Journal*, Vol. 52, Issue 4, pp. 1917-1930, April 2013.
9. Ahmed Khattab, Dmitri Perkins, and M. A. Bayoumi, “Opportunistic Spectrum Access: From Theory to Practice,” *IEEE Vehicular Technology Magazine: Applications of Cognitive Radio Networks*, vol.7, no.2, pp. 62-68, June 2012.

10. Ahmed Khattab, Dmitri Perkins, Magdy A Bayoumi, "Probabilistic Framework for Opportunistic Spectrum Management in Cognitive Ad hoc Networks," *EURASIP Journal on Wireless Communications and Networking* 2011, 2011:188 (28 November 2011)
11. Van Nguyen and Dmitri Perkins, "A Cooperative Diversity-Based Opportunistic Virtual MISO (OVM) Protocol for Multi-Hop Wireless Networks," *International Journal of Sensors, Wireless Communications and Control*, Vol. 1 Issue 2, pp. 137-146, (2011)
12. Yan He, Dmitri Perkins, and Sritej Velaga, "Design and Implementation of CLASS: a Cross-Layer ASSociation Scheme for Wireless Mesh Networks," *Elsevier Ad Hoc Networks Journal*, Vol. 9, Issue 8, (2011), pp. 1476-1488.
13. Y. Li, H. Wu, N.-F. Tzeng, D. Perkins, and M. Bayoumi, "MAC-SCC: Medium Access Control with a Separate Control Channel for Multihop Wireless Networks", in *IEEE Transactions on Wireless Communications*, Vol. 5, No. 7, (2006) pp. 1805-1817.
14. Dmitri Perkins, J. Yang, H. Hughes, and C. Owen, "A QoS-aware Routing Framework for Mobile Ad Hoc Networks," *The International Journal of Computer Systems, Science & Engineering*, CRL Publishing, 19 (5) (2004) pp. 289-299.
15. Dmitri Perkins and H. Hughes. "A Survey on Quality of Service Support in Wireless Ad Hoc Networks," *Journal of Wireless Communication & Mobile Computing (WCMC), Special Issue on Mobile Ad Hoc Networking: Research, Trends, and Application*, 2 (5) (2002) pp.503-513.
16. Dmitri Perkins and H. Hughes. "Investigating the Performance of TCP in Mobile Ad Hoc Networks," *International Journal of Computer Communications*, 25 (11-12) (2002) pp. 1132-1139.

Refereed Conference and Workshop Papers

17. Oladiran G. Olaleye, Muhammad Iqbal, Ahmed Aly, Dmitri Perkins, and Magdy Bayoumi. Framework for Generating and Designing Spectrum Awareness Modules for Opportunistic Networking. To appear in *The Proceedings of the 2017 IEEE 8th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON)*. New York, New York, October 2017.
18. Oladiran G. Olaleye, Muhammad Iqbal, Ahmed Aly, **Dmitri Perkins**, and Magdy Bayoumi. An Energy-Detection-Based Cooperative Spectrum Sensing Scheme for Minimizing the Effects of NPEE and RSPF. In *Proceedings of the 19th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM '16)*. ACM, New York, NY, USA, 318-322.
19. Shaban, M., Perkins, D., Bayoumi, M., "Application of Compressed Sensing in Wideband Cognitive Radios when Sparsity is Unknown," *The Proceedings of the IEEE Wireless and Microwave Technology Conference (WAMICON)*, Tampa, FL, June 2014.
20. Sajjad Pourmohammad, Reza Soosahabi, Dmitri Perkins, and Afef Fekih, "An Analytical QoS Model for IEEE 802.11-based Single and Multihop Wireless Networks, *The proceedings of the IEEE International Conference on Computing, Networking and Communications*" Honolulu, Hawaii, February 2014.
21. Bide Xu, Dmitri Perkins, Gui-Liang Feng, "Utilizing Spatial Locality to Optimize Temporal Efficiency in OLSR Route Calculations", *The Proceedings of the IEEE International Conference on Mobile Ad Hoc and Sensor Networks*, Dalian, China, December 2013.
22. Sajjad Pourmohammad, Afef Fekih, and Dmitri Perkins "Optimal Router Management in TCP/IP Networks", *The Proceedings of the IEEE International Conference on Systems and Control*, Algiers, Algeria , October 2013.
23. Mohamed Shaban, Dmitri Perkins, and Magdy Bayoumi, "An Efficient Compressive Wideband Spectrum Sensing Architecture for Cognitive Radios", the *Proceedings of the IEEE Workshop on Signal Processing Systems (SiPS)*, Taipei, Taiwan, October 2013

24. Mohammad Rezaeirad, Mahdi Orooji, Sahar Mazloom, Dmitri Perkins, and Magdy Bayoumi, "A Novel Clustering Paradigm for Key Pre-distribution in Homogenous Wireless Sensor Networks", in the proceedings of *The IEEE Consumer Communications and Networking Conference*, Las Vegas, Nevada, January 2013.
25. Abdelhamid Moursy, Ahmed Aly, Bide Xu, Dmitri Perkins, and Magdy Bayoumi, "Testbed Implementation for Autonomic Performance Management of Wireless Mesh Networks", in *The Proceedings of the IEEE Global Communications Conference (GLOBECOM): IEEE Workshop on Management of Emerging Networks and Services*, Anaheim, CA, December 2012.
26. Ahmed Khattab, D. Perkins, and M. A. Bayoumi, "Experimental Evaluation of Opportunistic Spectrum Access in Distributed Cognitive Radio Networks," in *The Proceedings of the The 8th International Wireless Communications and Mobile Computing Conference*, Cyprus, August 2012.
27. Ahmed Khattab, D. Perkins, and M. A. Bayoumi, "Rate-Adaptive Probabilistic Spectrum Management for Cognitive Radio Networks," in *The Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks(WoWMoM)*, Lucca, Italy, June 2011.
28. Abdelhamid Moursy, Bide Xu, Dmitri Perkins, Magdy Bayoumi, "Towards Autonomic Network Performance Management in Mobile Ad Hoc Networks," *IEEE GLOBECOM Workshops*, pp.448-453, 6-10 Dec. 2010.
29. Van Nguyen and Dmitri Perkins. "An Opportunistic Virtual MISO (OVM) Protocol for Multi-hop Wireless Networks", in *The Proceedings of the IEEE International Symposium on Wireless Pervasive Computing*, Modena, Italy, May 2010.
30. Yan He, Dmitri Perkins, and Sritej Velaga. "Design and Implementation of CLASS: a Cross-Layer ASSociation Scheme for Wireless Mesh Networks", *Second International Workshop on CARrier-grade wireless MESH Networks (CARMEN) in conjunction with IEEE INFOCOM 2010*, San Diego, CA, March 2010.
31. Van Nguyen and Dmitri Perkins, "CDMR: Cooperative Diversity-based Multi-copy Relaying in Mesh Networks", in *The Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks & Workshop (WoWMoM)*, Kos Greece, June 2009.
32. Bin Huang, Yan He, and Dmitri Perkins, "Investigating Deployment Strategies for Multi-radio Multi-channel Residential Wireless Mesh Networks", in *The Proceedings of the IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMOB)*, pp.147-153, Marrakech, Morocco, Oct. 2009.
33. Yan He, Van Nguyen, Dmitri Perkins, and Nian-Feng Tzeng, "Exploring 700MHz WiFi-Based Wireless Mesh Networking", in *the Proceedings of the 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, New Orleans, LA, Poster, pp. 349-350, May 2009.
34. Yan He, Ikhlas Ajbar, Van Nguyen and Dmitri Perkins, "Investigating the Performance Impact of Shared Host Capacity in Ad Hoc Networks", in *The Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, New Orleans, LA, November 2008.
35. Yan He, Dmitri Perkins, and Bin Huang, "S-Box: A Scalability Analysis Framework for Ad Hoc Routing Protocols", *Proceedings of the 13th IEEE Symposium on Computers and Communications (ISCC)*, Marrakech, Morocco, pp. 572-578, July 2008.
36. Yan He and D. Perkins. "BASH: A Backhaul-aided Seamless Handoff Scheme for Wireless Mesh Networks," in *The Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks & Workshop (WoWMoM)*, Newport Beach, CA, June 2008.
37. Abdelhamid Moursy, Ikhlas Ajbar, Dmitri Perkins, and Magdy Bayoumi, "Empirical Model-based Adaptive Control of MANETs," *IEEE INFOCOM Proceedings*, Workshop on Automated Network Management, Phoenix, AZ, April 2008.
38. Xuyang Wang and Dmitri Perkins, "Cross-layer Hop-by-hop Congestion Control in Mobile Ad Hoc Networks," *Proceedings of IEEE Wireless Communications and Networking Conference*, March 2008.

39. Ikhlas Ajbar and Dmitri Perkins, "A Performance Index for Evaluating Multihop Wireless Networks," *Proceedings of the IEEE International Conference on Computer Communications and Networks*, Honolulu, Hawaii, Aug. 13-16, 2007.
40. Abdelhamid Moursy, Ikhlas Ajbar, Dmitri Perkins, and Magdy Bayoumi, "Building Empirical Models of Mobile Ad Hoc Networks," the *Proceedings of the SCS/IEEE International Symposium on Performance Evaluation of Computer and Telecommunications Systems*, July 16-18, 2007.
41. Michael Totaro and Dmitri Perkins, "Statistical Design of Experiments for Analyzing Mobile Ad Hoc Networks," the *Proceedings of the ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems*, October 2005, pp.159-168.
42. Dmitri Perkins, J. Yang, H. Hughes, and C. Owen, "Reducing the impact of mobility-induced route failures on QoS in MANETs", in the *Proceedings of IEEE Global Telecommunications Conference, 2004 (GLOBECOM)*, Volume: 6, 29 November 2004, pp. 3419 - 3425.
43. Dmitri Perkins and R. Tumati, "Reducing Localization Errors in Sensor Ad Hoc Networks," in the *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference*, April 2004, pp.723 – 729.
44. Hongxia Sun, D. Perkins, and H. Hughes, "A Framework for Local QoS Prediction in Mobile Wireless Networks," *IEEE 58th Vehicular Technology Conference*, Volume: 5, October 2003, pp. 3541 - 3543.
45. Yijun Li, H. Wu, Dmitri Perkins, N.-F. Tzeng, and M. Bayoumi. "MAC-SCC: Medium Access Control with a Separate Control Channel for Multihop Wireless Networks," *Workshop on Mobile and Wireless Networks* (held in conjunction with 23rd International Conference on Distributed Computing Systems), May 2003, pp. 764 - 769.
46. Dmitri Perkins and H. Hughes. "The Interaction of MAC Layer Protocols and TCP in Mobile Ad Hoc Networks," in *Proceedings of the International Symposium on Performance Evaluation of Computer and Telecommunication Systems*, San Diego, California, 2002.
47. Dmitri Perkins, H. Hughes, and Charles B. Owen. "Factors Affecting the Performance of Ad Hoc Networks," in *Proceedings of the IEEE International Conference on Communications*, New York, New York, Volume: 4, pp. 2048-2052, 2002.
48. Dmitri Perkins and H. D. Hughes. "TCP over MAC Protocols in Mobile Ad Hoc Networks: A Performance Evaluation," in *Proceedings of the 2001 International Conference on Advances in Infrastructure for Electronic, Business, Science, and Education on the Internet*, L'Aquila, Italy, August 2001. (Invited paper).
49. Dmitri Perkins and H. D. Hughes. "TCP Performance in Mobile Ad Hoc Networks," in *Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems*, Orlando, Florida, July 2001.
50. Dmitri Perkins and H. D. Hughes. "A Performance Comparison of Routing Protocols for Mobile Ad Hoc Networks, in *The Proceedings of the 2000 International Symposium on Performance Evaluation of Computer and Telecommunication Systems*, Vancouver, B.C. Canada, July 2000.
51. Dmitri Perkins, Eric Tornø, and Abdol-Hossein Esfahanian. "Internet and Web Security." Technical Report MSU-CPS-98-40, Department of Computer Science, Michigan State University, December 1998.

PH.D. DISSERTATIONS SUPERVISED (student name, year completed, current position)

1. Totaro, Michael, Wireless Mesh Networks, 2007, Associate Professor, University of Louisiana at Lafayette.
2. Ajbar, Ikhlas, 2009, Qualcomm
3. Yan, He, 2010, Qualcomm
4. Nguyen, Van, 2010, Assistant Professor, Bethune Cookman University
5. Ahmed Khattab, 2011, Assistant Professor, Cairo University
6. Abdelhamid G. Moursy, 2011, RF Engineer, Wireless Engineering Division, Communication Technology Services

7. Sajjad Pourmohammad, May 2015
8. Bin Huang, December 2015

In progress

9. Ahmed Aly
10. Reza Soosahabi
11. Gideon Olaleye

MASTER STUDENTS SUPERVISED (THESIS AND PROJECT OPTIONS)

1. Rezaeirad Mohammad
2. Bide Xu
3. Xuyang Wang
4. Jinping Yang
5. Sameera Rasuri
6. Ramesh Tumati

COURSES TAUGHT

- Principles of Computer Communications and Networking (CSCE 513)
- Experimental Design and Analysis (CSCE 534)
- Wireless Computing and Network Systems (CSCE 575)
- Advanced Topics in Wireless networks (CSCE 639)

PROFESSIONAL ACTIVITIES

Associate Editor

- IEEE Transactions on Mobile Computing, January 2017-present

Federal Proposal Review Panels

- National Science Foundation, CISE CNS, EARS, SBIR, CAREER
- Department of Defense

Technical Program Committees

- Vehicular Technology Conference-Ad-hoc and Sensor Networks Track
- IEEE International Conference on Computer Communications and Networks (ICCCN)
- IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks (WOWMOM)
- International Conference on Digital Telecommunications (ICDT)
- International Conference on Intelligent Sensors, Sensor Networks and Information (ISSNIP)
- International Conference on Parallel Processing: Wireless and Mobile Computing
- IEEE International Conference on Information Technology (ITCC)

Conference Session Chair

- IEEE International Symposium on Circuits and Systems
- Mobile Wireless Networks Workshop in conjunction with IEEE IPCCC

Journal Referee

- IEEE Transactions on Wireless Communications
- IEEE Transactions on Networking
- Elsevier Journal on Pervasive and Mobile Computing
- The International Journal of Computer and Communications
- ACM Mobile Networks & Applications Journal (MONET)

- Elsevier International Journal on the Development and Application of Standards for Computers, Software Quality, Data Communications, Interfaces and Measurement
- IEEE Transactions on Vehicular Technology

Conference Referee

- IEEE INFOCOM
- IEEE GLOBECOM
- IEEE International Conference on Computer Communications and Networks (ICCCN)
- IEEE Wireless Communications & Networking Conference (WCNC)
- IEEE Vehicular Technology Conference
- IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks (WOWMOM)
- The Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)
- IEEE International Conference on Communications (ICC)
- International Conference on Intelligent Sensors, Sensor Networks, and Information