

RESUME

Dapeng “Oliver” Wu

Contact Information

Office:

431 Engineering Building
Department of Electrical & Computer Engineering
University of Florida

Mailing Address:

Department of Electrical & Computer Engineering
P. O. Box 116130
Gainesville, Florida 32611-6130, USA

Tel: (352) 392-4954

Fax: (352) 392-0044

Email: wu@ece.ufl.edu

Homepage: <http://www.wu.ece.ufl.edu>

Education

- **Ph.D.**, Electrical & Computer Engineering *Jan. 2000 – Aug. 2003*
Carnegie Mellon University, Pittsburgh, PA.
Thesis title: Providing Quality-of-Service Guarantees in Wireless Networks.
Advisor: Prof. Rohit Negi.
- **M.E.**, Electrical Engineering *Sept. 1994 – Apr. 1997*
Beijing University of Posts and Telecommunications, Beijing, P.R.China.
- **B.E.**, Electrical Engineering *Sept. 1986 – June 1990*
Huazhong University of Science and Technology, Wuhan, P.R.China.

Research Interests

Communication, multimedia signal processing, computer vision, machine learning, network science

Professional Experience

- *Professor* (with tenure), Department of Electrical & Computer Engineering, University of Florida, Gainesville, FL *Aug. 2011–present*
- *Graduate faculty* (courtesy appointment), Department of Computer and Information Science and Engineering, University of Florida, Gainesville, FL *March 2010–present*
- *Associate Professor* (with tenure), Department of Electrical & Computer Engineering, University of Florida, Gainesville, FL *May 2008–Aug. 2011*

- *Assistant Professor* (tenure-accruing), Department of Electrical & Computer Engineering, University of Florida, Gainesville, FL *Aug. 2003–May 2008*
- *Research Assistant*, Department of Electrical & Computer Engineering, Carnegie Mellon University, Pittsburgh, PA *Jan. 2000 – Aug. 2003*
- *Research Intern*, Fujitsu Laboratories of America, Sunnyvale, CA *May 2000 – Aug. 2000*
- *Research Intern*, Fujitsu Laboratories of America, Sunnyvale, CA *Dec. 1999 – Jan. 2000*
- *Research Intern*, Fujitsu Laboratories of America, Sunnyvale, CA *Dec. 1998 – Aug. 1999*
- *Research Intern*, Fujitsu Laboratories of America, Sunnyvale, CA *June 1998 – Aug. 1998*
- *Research Assistant*, Department of Electrical Engineering, Polytechnic University, Brooklyn, NY *July 1997 – Dec. 1999*
- *R&D Engineer*, China Posts & Telecommunications Industry Corporation (Group), Ministry of Posts & Telecommunications, P.R.China *July 1990 – Aug. 1994*

Awards and Honors

- **IEEE Distinguished Speaker**, IEEE Vehicular Technology Society (VTS), 2021
- **University of Florida Term Professorship Award**, 2019 – 2022
- **IEEE Distinguished Lecturer**, IEEE Vehicular Technology Society (VTS), 2018
- **University of Florida Term Professorship Award**, 2017 – 2019
- **IEEE Distinguished Lecturer**, IEEE Vehicular Technology Society (VTS), 2016
- **IEEE Fellow**, Class of 2013
for contributions to video communication and processing and wireless networking
- **Faculty Opponent**, Norwegian University of Science and Technology, Norway, 2012
- **IEEE GLOBECOM 2011 Best Paper Award**
Y. Guo, Z. Ding, Y. Fang, D. Wu, “Cutting Down Electricity Cost in Internet Data Centers by Using Energy Storage,” Proceedings of IEEE Global Telecommunications Conference (Globecom 2011), Houston, TX, USA, December 5 – 9, 2011.
- **Best Associate Editor Award of IEEE Transactions on Circuits and Systems for Video Technology**, IEEE Circuits and Systems Society, 2010

- **Faculty Opponent**, Umea University, Sweden, 2010
- **University of Florida Research Foundation Professorship Award**, 2009 – 2011
- **Outstanding Associate Editor of IEEE Transactions on Circuits and Systems for Video Technology**, IEEE Circuits and Systems Society, 2009
- **AFOSR Young Investigator Program (YIP) Award**, 2009
- **ONR Young Investigator Program (YIP) Award**, 2008
- **Dean’s Honor Roll for Excellent Teaching**, College of Engineering, University of Florida, 2008
- **Certificate of Appreciation**, IEEE Circuits and Systems Society
Citation:
This certificate is awarded to *Dapeng Oliver Wu* in recognition of your time and effort as a 2006–2007 Associate Editor of the IEEE Transactions on Circuits and Systems for Video Technology; a publication of the IEEE Circuits and Systems Society.
- **National Research Council/AFOSR Summer Faculty Fellowship Award**, 2008
- **NSF Faculty Early Career Development (CAREER) Award**, 2007
- **National Research Council/AFOSR Summer Faculty Fellowship Award**, 2007
- **QShine 2006 Best Paper Award**
K. Wang, F. Yang, Q. Zhang, D. Wu, and Y. Xu, “Energy Efficient Cooperative Rate Adaptation in IEEE 802.11-based Multi-hop Networks,” The Third International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2006), Waterloo, Ontario, Canada, August 7–9, 2006.
- **Certificate of Recognition**, University of Florida, 2006
Citation:
Certificate of Recognition presented to Dapeng Oliver Wu in recognition of his nomination as outstanding UF EDGE faculty for the academic year 2005–2006. The College of Engineering is pleased to confer recognition and congratulations.
- Listed in AcademicKeys Who’s Who in Engineering Education (WWEE), 2004
- **IEEE CSVT Transactions Best Paper Award**, 2001
D. Wu, et al., “On End-to-End Architecture for Transporting MPEG-4 Video over the Internet,” *IEEE Transactions on Circuits and Systems for Video Technology*, Sept. 2000.

- **Certificate of Appreciation**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC'2000)

Citation:

The PIMRC'2000 organizing committee recognises and thanks **D. Wu** for the excellent invited paper presentation at PIMRC'2000 on "Scalable Video Transport over Wireless IP Networks" held at the Hilton London Metropole Hotel, London, UK, Sept. 18–21, 2000.

Grants

- "Collaborative Research: SHF: Small: Decentralized Edge Computing Platform for Privacy-Preserving Mobile Crowdsensing," (PI), National Science Foundation (NSF), \$163,847, 7/15/2020 – 6/30/2023.
- "Quasi-Supervised-Learning for SAR Image Recognition," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2020 – 6/30/2021.
- "Robust PCA with Outlier Mitigation," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2020 – 6/30/2021.
- "Forecasting trajectories of HIV transmission networks with a novel phylodynamic and deep learning framework," (Co-PI), National Institutes of Health (NIH), \$2,809,658, 5/1/2020 – 4/30/2024.
- "Deep Learning with Local Differential Privacy," (PI), University of South Florida, \$37,500, 7/1/2019 – 12/30/2020.
- "SaTC: CORE: Small: FIRMA: Personalized Cross-Layer Continuous Authentication," (co-PI), National Science Foundation (NSF), \$516,000, 9/15/2018 – 8/31/2021.
- "TPR Learning: a Symbolic Neural Approach for Vision Language Intelligence," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$100,000, 7/1/2018 – 6/30/2020.
- "Intelligent Assistant Platform," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$100,000, 7/1/2018 – 6/30/2020.
- "DeepSLAM: Object Detection, Re-identification and Prediction with Implicit Mapping," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$150,000, 7/1/2018 – 6/30/2021.
- "FedSec: Federated Learning Security Attacks and Defenses," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$100,000, 7/1/2018 – 6/30/2020.
- "Machine-Learning-Enabled Video Coding Strategy for Object Detection," (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2018 – 6/30/2019.
- "I/UCRC Center for Big Learning," (Co-PI), National Science Foundation (NSF), \$750,000, 2/1/2018 – 1/31/2023.
- "Planning Proposal: I/UCRC Center for Big Learning," (Senior personnel), National Science Foundation (NSF), \$15,000, 9/1/2016 – 8/31/2017.
- "CIF:Small:Collaborative Research: Scalable Nonconvex Optimization with Statistical Guarantees for Information Computing in High Dimensions," (PI), National Science Foundation (NSF), \$215,000, 7/1/2016 – 6/30/2020.

- “Advanced Techniques for 5G Wireless Networks,” (PI), Huawei Technologies, \$130,000, 5/1/2015 – 9/15/2016.
- “Carry Small Enjoy Large: a Mobile Cloud Computing Approach,” (PI), National Science Foundation (NSF), \$308,000, 8/1/2015 – 7/31/2019.
- “Interdependent Network Responses to WMD: Dynamics Modeling, Impact Analysis, and Adaptive Control Techniques,” (Co-PI), Defense Threat Reduction Agency (DTRA), \$750,000, 8/14/2014 – 2/29/2020.
- “MRI: Acquisition of GatorCloud: Enabling High-Impact Scientific Research and Collaboration via Software Defined Networks and Cloud Services,” (Senior Personnel), National Science Foundation (NSF), \$1,172,354, 10/1/2012 – 9/30/2014. In addition, U.F. provides cost sharing in the amount of \$502,437. Total: \$1,674,791.
- “NeTS:Small: QoS Assured Multimedia Communication over Non-stationary Wireless Channels,” (PI), National Science Foundation (NSF), \$383,143, 8/16/2011 – 8/15/2016.
- “CIF:Small:Collaborative Research: Compressed Sensing for Coherent Designs under Gaussian/Non-Gaussian Noise,” (PI), National Science Foundation (NSF), \$237,225, 7/1/2011 – 6/30/2015.
- “Resource-Constrained Wireless Video Communication,” (PI), National Science Foundation (NSF), \$378,000, 9/15/2010 – 8/31/2014.
- “The Rural Veterans Tele-Rehabilitation Project,” (Co-PI), U.S. Department of Veterans Affairs, \$2.35 million, 8/09 – 7/11.
- AFOSR Young Investigator Program (YIP) Award, “Joint Information Theoretic and Differential Geometrical Approach for Robust Automated Target Recognition,” (PI), Air Force Office of Scientific Research (AFOSR), \$300,000, 1/1/09 – 11/30/11.
- ONR Young Investigator Program (YIP) Award, “Delay-Assured Ad Hoc Networking,” (PI), Office of Naval Research (ONR), \$300,000, 5/31/08 – 9/30/11.
- Defense University Research Instrumentation Program (DURIP) Award, “Distributed Collaborative Computation for Research on Automatic Target Recognition,” (PI), Air Force Office of Scientific Research (AFOSR), \$97,864, 5/15/2008 – 5/14/2009.
- NSF CAREER Award, “CAREER: Delay-Constrained Wireless Networking: Where Shannon Meets Erlang,” (PI), National Science Foundation (NSF), \$464,000, 9/07 – 8/13.
- “Advanced Techniques for Scene Analysis,” (PI), Air Force Research Laboratory, Wright-Patterson AFB, Dayton, Ohio, \$200,000, 6/06 – 9/10 (52 months).
- “SIRG: COLLABORATIVE RESEARCH: DeerNet-Wireless Sensor Networking for Wildlife Behavior Analysis and Interaction Modeling,” (Co-PI), National Science Foundation (NSF), \$1.05 million, 9/05 – 9/09.
- “Vision-Based Control of Agile, Autonomous Small and Micro Flight Vehicles in Urban Environments,” (Co-PI), Air Force Office of Scientific Research (AFOSR), \$4.7 million, 9/04 – 1/06.
- “Performance Improvement of Wireless Communication Technologies under Jamming/Interference,” (PI), Cyber Technology Research Foundation, \$150,000, 12/07 – 11/10.

- “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” (PI), Intel, \$153,000, 4/07 – 11/10.
- Equipment donation for “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” (PI), Intel, \$3,966, 2007.
- Gift from Stretch, Inc., “Multimedia Wireless Networking,” (PI), \$37,500, 2006 – 2007.
- Gift from PCS, Inc., “Method and Apparatus for Converting a Two Dimensional Motion Picture into a Three Dimensional Motion Picture,” (PI), \$75,000, 2005.

Books

1. Z. Chen, D. Wu, “Mobile Video Communications: Distortion Analysis and Optimal Design,” LAP LAMBERT Academic Publishing, Germany, 2014. ISBN-13: 978-3-8484-9951-9—ISBN-10: 3848499517.
2. X. Li, D. Wu, “Resource Allocation for Delay-Constrained Communications,” VDM Verlag: Saarbrücken, Germany, 2010. ISBN: 978-3639228748.
3. D. Wu, “Providing Quality-of-Service Guarantees in Wireless Networks,” VDM Verlag: Saarbrücken, Germany, 2008. ISBN: 978-3-639-07923-4.
4. J. Fan, D. Wu, “Network Centric Traffic Analysis,” VDM Verlag: Saarbrücken, Germany, 2008. ISBN: 978-3-8364-9296-6.
5. H. Wang (Editor), J. Huang (Editor), M. Van Der Schaar (Editor), D. Wu (Editor), Z. Han (Editor), “Cross-Layer Optimized Wireless Multimedia Communications,” Hindawi Publishing Corporation, New York, 2007. ISBN: 978-9774540097.

Book Chapters

1. J. Kong, D. Wu, X. Hong, M. Gerla, “Towards a Probabilistic Complexity-theoretic Modeling of Biological Cyanide Poisoning as Service Attack in Self-organizing Networks,” in *Cryptography/Book 2*, J. Sen, Ed., INTECH: Rijeka, Croatia. ISBN 979-953-307-863-1.
2. J. Kong, J. Liu, X. Hong, D. Wu, M. Gerla, “On Performance Cost of On-demand Anonymous Routing Protocols in Mobile Ad Hoc Networks,” in *Mobile and Wireless Network Security and Privacy*, Makki, Reiher, Makki, Pissinou, Makki, Eds., ch. 29, pp. 769–786, Springer: New York, USA, July 10, 2007. ISBN: 0849338336.
3. J. Fan, Q. He, D. Wu, and P. Khosla, “Location Privacy Protection in Mobile Wireless Networks,” in *The Handbook of Mobile Middleware*, P. Bellavista and A. Corradi, Eds., ch. 29, pp. 769–786, Taylor & Francis: Boca Raton, FL, USA, October 20, 2006. ISBN: 0849338336.
4. D. Wu, “Streaming Video over the Internet and Wireless IP Networks,” in *Video Processing and Communications*, Y. Wang, J. Ostermann, and Y.-Q. Zhang, Eds., ch. 15, pp. 519–561, Prentice Hall: Upper Saddle River, NJ, USA, September 27, 2001. ISBN: 0130175471.

Selected Journal Publications

1. X. Zhu, T. Qiu, W. Qu, M. Atiquzzaman, D. Wu, "BLS-Location: A Wireless Fingerprint Localization Algorithm Based on Broad Learning," accepted by *IEEE Transactions on Mobile Computing*.
2. P. Yang, X. Xi, T. Quek, J. Chen, X. Cao, D. Wu, "RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization," accepted by *IEEE Internet of Things Journal*.
3. X. Qu, Z. Zou, X. Su, P. Zhou, W. Wei, S. Wen, D. Wu, "Attend to Where and When: Cascaded Attention Network for Facial Expression Recognition," accepted by *IEEE Transactions on Emerging Topics in Computational Intelligence*.
4. J. Zhang, H. Huang, G. Min, W. Miao, D. Wu, "Social-Aware Routing in Mobile Opportunistic Networks," accepted by *IEEE Wireless Communications Magazine*.
5. E. Guo, Z. Chen, Y. Zhou, D. Wu, "Unsupervised Learning of Depth and Camera Pose with Feature Map Warping," accepted by *Sensors*.
6. Q. Cai, Z. Chen, D. Wu, S. Liu, X. Li, "A Novel Video Coding Strategy in HEVC for Object Detection," accepted by *IEEE Transactions on Circuits and Systems for Video Technology*.
7. J. Liu, X. Song, Y. Zhou, X. Peng, Y. Zhang, P. Liu, D. Wu, C. Zhu, "Deep Anomaly Detection in Packet Payload," accepted by *Neurocomputing*.
8. X. Fang, Y. Hu, P. Zhou, D. Wu, "V3H: View Variation and View Heredity for Incomplete Multi-view Clustering," accepted by *IEEE Transactions on Artificial Intelligence*.
9. N. Chen, T. Qiu, M. Daneshmand, D. Wu, "Robust Networking: Dynamic Topology Evolution Learning for Internet of Things," accepted by *ACM Transactions on Sensor Networks*.
10. W. Du, A. Li, P. Zhou, B. Niu, D. Wu, "PrivacyEye: A Privacy-Preserving and Computationally Efficient Deep Learning-based Mobile Video Analytics System," accepted by *IEEE Transactions on Mobile Computing*.
11. P. Yang, X. Xi, Y. Fu, T. Quek, X. Cao, D. Wu, "Multicast eMBB and Bursty URLLC Service Multiplexing in a CoMP-Enabled RAN," accepted by *IEEE Transactions on Wireless Communications*.
12. M. A. Rezaei, Y. Li, D. Wu, X. Li, C. Li, "Deep Learning in Drug Design: Protein-Ligand Binding Affinity Prediction," accepted by *IEEE/ACM Transactions on Computational Biology and Bioinformatics*.
13. H. Wu, W. Du, P. Gong, D. Wu, "CPU: Cross-Rack-Aware Pipelining Update for Erasure-Coded Storage," accepted by *IEEE Transactions on Cloud Computing*.
14. M. Liu, Y. Wan, F. L. Lewis, E. Atkins, D. Wu, "Statistical Properties and Airspace Capacity for Unmanned Aerial Vehicle Networks subject to Sense-and-Avoid Safety Protocols," accepted by *IEEE Transactions on Intelligent Transportation Systems*.
15. C. Liu, Y. Wang, C. Piao, Z. Dai, Y. Yuan, G. Wang, D. Wu, "Time-Aware Location Prediction by Convolutional Area-of-Interest Modeling and Memory-Augmented Attentive LSTM," accepted by *IEEE Transactions on Knowledge and Data Engineering*.
16. P. Liu, Y. Zhou, D. Peng, D. Wu, "Global-Attention-Based Neural Networks for Vision Language Intelligence," accepted by *IEEE/CAA Journal of Automatica Sinica*.

17. B. Sun, R. Al-Bayat, Q. Huang, D. Wu, "Game Theoretical Approach for Non-Overlapping Community Detection," accepted by *Journal of Tsinghua Science and Technology*.
18. G. An, Z. Zheng, D. Wu, W. Zhou, "Deep spectral feature pyramid in the frequency domain for long-term action recognition," accepted by *Journal of Visual Communication and Image Representation*.
19. Z. Zhao, Q. Sun, H. Yang, H. Qiao, Z. Wang, D. Wu, "Compression Artifacts Reduction by Improved Generative Adversarial Networks," accepted by *EURASIP Journal on Image and Video Processing*.
20. C. Xu, J. Zhu, D. Wu, "Decentralized Online Learning Methods Based on Weight-Balancing over Time-Varying Digraphs," accepted by *IEEE Transactions on Emerging Topics in Computational Intelligence*.
21. R. Han, D. Li, J. Ouyang, C. Liu, G. Wang, D. Wu, L. Y. Chen, "Accurate Differentially Private Deep Learning on the Edge," *IEEE Transactions on Parallel and Distributed Systems*, vol. 32, no. 9, pp. 2231–2247, September 2021.
22. Q. Wang, J. Li, Q. Qi, P. Zhou, D. Wu, "An Adaptive Location-based Routing Protocol for 3D Underwater Acoustic Sensor Networks," *IEEE Internet of Things Journal*, vol. 8, no. 8, pp. 6853–6864, April 15, 2021.
23. X. Xi, X. Cao, P. Yang, J. Chen, T. Quek, D. Wu, "Network Resource Allocation for eMBB Payload and URLLC Control Information Communication Multiplexing in a Multi-UAV Relay Network," *IEEE Transactions on Communications*, vol. 69, no. 3, pp. 1802–1817, March 2021.
24. P. Yang, X. Xi, T. Quek, J. Chen, X. Cao, D. Wu, "How Should I Orchestrate Resources of My Slices for Bursty URLLC Service Provision?" *IEEE Transactions on Communications*, vol. 69, no. 2, pp. 1134–1146, February 2021.
25. X. Bi, T. Qiu, W. Qu, L. Zhao, X. Zhou, D. Wu, "Dynamically Transient Social Community Detection for Mobile Social Networks," *IEEE Internet of Things Journal*, vol. 8, no. 3, pp. 1282–1293, February 1, 2021.
26. M. Wang, C. Xu, X. Chen, L. Zhong, Z. Wu, D. Wu, "BC-MDC: A Blockchain-based Decentralized Truthful Framework for Mobile Device Cloud," *IEEE Transactions on Industrial Informatics*, vol. 17, no. 2, pp. 1208–1219, February 2021.
27. K. Wang, H. Qian, X. Zheng, M. Chen, K. Liu, K. Zheng, P. Zhou, D. Wu, "ATPGNN: Reconstruction of Neighborhood in Graph Neural Networks with Attention-based Topological Patterns," *IEEE Access*, vol. 9, pp. 9218–9234, January 2021.
28. Z. Zheng, G. An, D. Wu, Q. Ruan, "Global and Local Knowledge-Aware Attention Network for Action Recognition," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 32, no. 1, pp. 334–347, January 2021.
29. C. H. Liu, Z. Dai, Y. Zhao, J. Crowcroft, D. Wu, K. K. Leung, "Distributed and Energy-Efficient Mobile Crowdsensing with Charging Stations by Deep Reinforcement Learning," *IEEE Transactions on Mobile Computing*, vol. 20, no. 1, pp. 130–146, January 2021.
30. W. Du, A. Li, P. Zhou, Z. Xu, X. Wang, H. Jiang, D. Wu, "Approximate to be Great: Communication Efficient and Privacy-preserving Large-scale Distributed Deep Learning in Internet of Things," *IEEE Internet of Things Journal*, vol. 7, no. 12, pp. 11678–11692, December 2020.

31. H. Xia, R. Zhang, X. Cheng, T. Qiu, D. Wu, "Two-stage Game Design of Payoff Decision-making Scheme for Crowdsourcing Dilemmas," *IEEE/ACM Transactions on Networking*, vol. 28, no. 6, pp. 2741–2754, December 2020.
32. G. Chen, K. Wang, Q. Ai, P. Zhou, D. Wu, "Reversible Data Hiding Based on Structural Similarity Block Selection," *IEEE Access*, vol. 8, no. 1, pp. 20375–20385, December 2020.
33. S. Li, C. Liu, L. Su, B. Xie, Z. Ding, P. Chen, D. Wu, "Discriminative Transfer Feature and Label Consistency for Cross-Domain Image Classification," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 31, no. 11, pp. 4842–4856, November 2020.
34. P. Li, L. Han, S. Xu, D. Wu, P. Gong, "Resource Allocation for 5G-Enabled Vehicular Networks in Unlicensed Frequency Bands," *IEEE Transactions on Vehicular Technology*, vol. 69, no. 11, pp. 13546–13555, November 2020.
35. X. Zhu, W. Qu, T. Qiu, M. Atiquzzaman, D. Wu, "Indoor Intelligent Fingerprint-based Localization: Principles, Approaches and Challenges," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2634–2657, Fourth Quarter 2020.
36. J. Chi, T. Qiu, X. Zhou, M. Atiquzzaman, D. Wu, "Edge Computing in Industrial Internet of Things: Architecture, Advances and Challenges," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2462–2488, Fourth Quarter 2020.
37. C. Chen, C. Wang, T. Qiu, M. Atiquzzaman, D. Wu, "Caching in Vehicular Named Data Networking: Architecture, Schemes and Future Directions," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2378–2407, Fourth Quarter 2020.
38. Q. Wang, J. Li, Q. Qi, P. Zhou, D. Wu, "A Game-Theoretic Routing Protocol for 3D Underwater Acoustic Sensor Networks," *IEEE Internet of Things Journal*, vol. 7, no. 10, pp. 9846–9857, October 2020.
39. X. Zhang, H. Yin, D. Wu, G. Min, Y. Zhang, H. Huang, "SSL: A Surrogate-Based Method for Large-scale Statistical Latency Measurement," *IEEE Transactions on Services Computing*, vol. 13, no. 5, pp. 958–968, September/October 2020.
40. H. Hao, C. Xu, L. Zhong, D. Wu, "Stochastic Cooperative Optimization for Multicast Scheduling in Heterogeneous and Green 5G Networks," *IEEE Transactions on Green Communications and Networking*, vol. 4, no. 3, pp. 903–913, September 2020.
41. T. Wu, P. Zhou, K. Liu, Y. Yuan, X. Wang, H. Huang, D. Wu, "Multi-Agent Deep Reinforcement Learning for Urban Traffic Light Control in Vehicular Networks," *IEEE Transactions on Vehicular Technology*, vol. 69, no. 8, pp. 8243–8256, August 2020.
42. P. Gong, H. Li, X. Gao, D. Wu, X. Xiao, "Relay Power Allocation for NAF Cooperation Assisted NOMA Network," *IEEE Wireless Communications Letters*, vol. 9, no. 8, pp. 1169–1172, August 2020.
43. X. Liu, P. Zhou, T. Qiu, D. Wu, "Blockchain-Enabled Contextual Online Learning Under Local Differential Privacy for Coronary Heart Disease Diagnosis in Mobile Edge Computing," *IEEE Journal of Biomedical and Health Informatics*, vol. 24, no. 8, pp. 2177–2188, August 2020.

44. H. Zhang, X. Xu, H. He, S. He, G. Han, J. Qin, D. Wu, "Fast User-Guided Single Image Reflection Removal via Edge-aware Cascaded Networks," *IEEE Transactions on Multimedia*, vol. 22, no. 8, pp. 2012–2023, August 2020.
45. X. Gao, Q. Bai, P. Gong, D. Wu, "Design and Performance Analysis of LED-Grouping Based Spatial Modulation in the Visible Light Communication System," *IEEE Transactions on Vehicular Technology*, vol. 69, no. 7, pp. 7317–7324, July 2020.
46. Z. Cao, P. Zhou, R. Li, S. Huang, D. Wu, "Multi-Agent Deep Reinforcement Learning for Joint Multi-Channel Access and Task Offloading of Mobile Edge Computing in Industry 4.0," *IEEE Internet of Things Journal*, vol. 7, no. 7, pp. 6201–6213, July 2020.
47. Q. Cai, Z. Chen, D. Wu, B. Huang, "Real-Time Constant Objective Quality Video Coding Strategy in High Efficiency Video Coding," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 30, no. 7, pp. 2215–2228, July 2020.
48. W. Du, W. Ying, P. Yang, X. Cao, G. Yan, K. Tang, D. Wu, "Network-based Heterogeneous Particle Swarm Optimization and Its Application in UAV Communication," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 4, no. 3, pp. 312–323, June 2020.
49. B. Huang, Z. Chen, Q. Cai, M. Zheng, D. Wu, "Rate-Distortion-Complexity Optimized Coding Mode Decision for HEVC," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 30, no. 3, pp. 795–809, March 2020.
50. Z. Xiao, H. Dong, L. Bai, D. Wu, X. Xia, "Unmanned Aerial Vehicle Base Station (UAV-BS) Deployment with Millimeter Wave Beamforming," *IEEE Internet of Things Journal*, vol. 7, no. 2, pp. 1336–1349, February 2020.
51. J. Zhang, L. Zhu, Z. Xiao, X. Cao, D. Wu, X. Xia, "Optimal and Sub-Optimal Uplink NOMA: Joint User Grouping, Decoding Order and Power Control," *IEEE Wireless Communications Letters*, vol. 9, no. 2, pp. 254–257, February 2020.
52. C. Chen, L. Liu, T. Qiu, D. Wu, Z. Ren, "Delay-aware Grid-based Geographic Routing in Urban VANETs: A Backbone Approach," *IEEE/ACM Transactions on Networking*, vol. 27, no. 6, pp. 2324–2337, December 2019.
53. M. Wang, C. Xu, X. Chen, H. Hao, L. Zhong, D. Wu, "Design of Multipath Transmission Control for Information-centric Internet of Things: A Distributed Stochastic Optimization Framework," *IEEE Internet of Things Journal*, vol. 6, no. 6, pp. 9475–9488, December 2019.
54. X. Xi, X. Cao, P. Yang, J. Chen, T. Quek, D. Wu, "Joint User Association and UAV Location Optimization for UAV-Aided Communications," *IEEE Wireless Communications Letters*, vol. 8, no. 6, pp. 1688–1691, December 2019.
55. W. Chen, A. Zhou, P. Zhou, L. Gao, S. Ji, D. Wu, "A Privacy-Preserving Online Learning Approach for Incentive-based Demand Response in Smart Grid," *IEEE Systems Journal*, vol. 13, no. 4, pp. 4208–4218, December 2019.
56. Y. Li, C. Pan, X. Cao, D. Wu, "Power Line Detection by Pyramidal Patch Classification," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 3, no. 6, pp. 416–426, December 2019.

57. L. Zhu, Z. Xiao, X.-G. Xia, D. Wu, "Millimeter-Wave Communications with Non-Orthogonal Multiple Access for B5G/6G," *IEEE Access*, vol. 7, no. 1, pp. 116123–116132, December 2019.
58. Y. Wang, Y. Niu, H. Wu, B. Ai, Z. Zhong, D. Wu, T. Juhana, "Relay Assisted Concurrent Scheduling to Overcome Blockage in Full-duplex Millimeter Wave Small Cells," *IEEE Access*, vol. 7, no. 1, pp. 105755–105767, December 2019.
59. L. Zhu, J. Zhang, Z. Xiao, X. Cao, D. Wu, X.-G. Xia, "Millimeter-Wave NOMA with User Grouping, Power Allocation and Hybrid Beamforming," *IEEE Transactions on Wireless Communications*, vol. 18, no. 11, pp. 5065–5079, November 2019.
60. H. Yang, J. Wang, Y. Miao, Y. Yang, Z. Zhao, Z. Wang, Q. Sun, D. Wu, "Combining Spatio-Temporal Context and Kalman Filtering for Visual Tracking," *Mathematics*, vol. 7, no. 11, November 2019.
61. P. Zhou, J. Xu, W. Wang, H. Huang, Y. Hu, D. Wu, S. Ji, "Toward Optimal Adaptive Online Shortest Path Routing with Acceleration under Jamming Attack," *IEEE/ACM Transactions on Networking*, vol. 27, no. 5, pp. 1815–1829, October 2019.
62. W. Chen, P. Zhou, S. Ji, H. Jiang, L. Yu, D. Wu, "Privacy-preserving Online Task Allocation in Edge-Computing-Enabled Massive Crowdsensing," *IEEE Internet of Things Journal*, vol. 6, no. 5, pp. 7773–7787, October 2019.
63. P. Zhou, G. Zhong, M. Hu, R. Li, Q. Yan, W. Fang, S. Ji, D. Wu, "Privacy-Preserving and Residential Context-Aware Online Learning for IoT-Enabled Energy Saving with Big Data Support in Smart Home Environment," *IEEE Internet of Things Journal*, vol. 6, no. 5, pp. 7450–7468, October 2019.
64. Z. Zheng, G. An, D. Wu, Q. Ruan, "Spatial-Temporal Pyramid Based Convolutional Neural Network for Action Recognition," *Neurocomputing*, vol. 358, pp. 446–455, September 2019.
65. K. Sun, H. Zhang, Y. Gao, D. Wu, "Delay-aware Fountain Codes for Video Streaming with Optimal Sampling Strategy," *IEEE/KICS Journal of Communications and Networks*, vol. 21, no. 4, pp. 339–352, August 2019.
66. D. Wu, Z. Li, J. Wang, Y. Zheng, M. Li, Q. Huang, "Vision and Challenges for Knowledge Centric Networking," *IEEE Wireless Communications Magazine*, vol. 26, no. 4, pp. 117–123, August 2019.
67. X. Zhang, H. Chen, Y. Zhao, Z. Ma, Y. Xu, H. Huang, H. Yin, D. Wu, "Improving Cloud Gaming Experience through Mobile Edge Computing," *IEEE Wireless Communications Magazine*, vol. 26, no. 4, pp. 178–183, August 2019.
68. P. Yang, X. Cao, X. Xi, W. Du, Z. Xiao, D. Wu, "Three-Dimensional Continuous Movement Control of Drone Cells for Energy-Efficient Communication Coverage," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 7, pp. 6535–6546, July 2019.
69. L. Zhu, J. Zhang, Z. Xiao, X. Cao, D. Wu, X.-G. Xia, "Joint Tx-Rx Beamforming and Power Allocation for 5G Millimeter-Wave Non-Orthogonal Multiple Access (MmWave-NOMA) Networks," *IEEE Transactions on Communications*, vol. 67, no. 7, pp. 5114–5125, July 2019.
70. Z. Xiao, L. Zhu, Z. Gao, D. Wu, X.-G. Xia, "User Fairness Non-orthogonal Multiple Access (NOMA) for Millimeter-Wave Communications with Analog Beamforming," *IEEE Transactions on Wireless Communications*, vol. 18, no. 7, pp. 3411–3423, July 2019.

71. Y. Feng, P. Zhou, J. Xu, S. Ji, D. Wu, "Video Big Data Retrieval Over Media Cloud: A Context-aware Online Learning Approach," *IEEE Transactions on Multimedia*, vol. 21, no. 7, pp. 1762–1777, July 2019.
72. S. Yang, C. Xu, X. Qiu, D. Wu, "Diffusion Kalman Filter with Quantized Information Exchange in Distributed Mobile CrowdSensing," *IEEE Internet of Things Journal*, vol. 6, no. 3, pp. 4423–4435, June 2019.
73. L. Zhu, J. Zhang, Z. Xiao, X. Cao, D. Wu, X. Xia, "3D Beamforming for Flexible Coverage in Millimeter-Wave UAV Communications," *IEEE Wireless Communications Letters*, vol. 8, no. 3, pp. 837–840, June 2019.
74. X. Zhang, H. Huang, H. Yin, D. Wu, G. Min, Z. Ma, "Resource Provisioning in the Edge for IoT Applications with Multi-Level Services," *IEEE Internet of Things Journal*, vol. 6, no. 3, pp. 4262–4271, June 2019.
75. T. Qiu, J. Liu, W. Si, D. Wu, "Robustness Optimization Scheme with Multi-population Co-evolution for Scale-free Wireless Sensor Networks," *IEEE/ACM Transactions on Networking*, vol. 27, no. 3, pp. 1028–1042, June 2019.
76. Z. Chen, L. Duan, S. Wang, Y. Lou, T. Huang, D. Wu, W. Gao, "Towards Knowledge as a Service over Networks: A Deep Learning Model Communication Paradigm," *IEEE Journal on Selected Areas in Communications (JSAC)*, vol. 37, no. 6, pp. 1349–1363, June 2019.
77. Y. Li, W. Du, P. Yang, T. Wu, J. Zhang, D. Wu, M. Perc, "A Satisficing Conflict Resolution Approach for Multiple UAVs," *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 1866–1878, April 2019.
78. L. Zhu, J. Zhang, Z. Xiao, X. Cao, D. Wu, "Optimal User Pairing for Downlink Non-Orthogonal Multiple Access (NOMA)," *IEEE Wireless Communications Letters*, vol. 8, no. 2, pp. 328–331, April 2019.
79. P. Zhou, K. Wang, J. Xu, D. Wu, "Differentially-Private and Trustworthy Online Social Multimedia Big Data Retrieval in Edge Computing," *IEEE Transactions on Multimedia*, vol. 21, no. 3, pp. 539–554, March 2019.
80. Z. Lin, X. Du, H.-H. Chen, B. Ai, Z. Chen, D. Wu, "Millimeter-Wave Propagation Modeling and Measurements for 5G Mobile Networks," *IEEE Wireless Communications Magazine*, vol. 26, no. 1, pp. 72–77, February 2019.
81. L. Shen, R. Fang, Y. Yao, X. Geng, D. Wu, "No-Reference Stereoscopic Image Quality Assessment based on Image Distortion and Stereo Perceptual Information," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 3, no. 1, pp. 59–72, February 2019.
82. X. Xi, X. Cao, P. Yang, Z. Xiao, D. Wu, "Efficient and Fair Network Selection for Integrated Cellular and Drone-Cell Networks," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 1, pp. 923–937, January 2019.
83. W. Du, M. Zhang, W. Ying, M. Perc, K. Tang, X. Cao, D. Wu, "The networked evolutionary algorithm: A network science perspective," *Applied Mathematics and Computation*, Elsevier, vol. 338, pp. 33–43, December 2018.

84. W. Chen, P. Zhou, S. Dong, S. Gong, M. Hu, K. Wang, D. Wu, "Tree-based Contextual Learning for Online Job or Candidate Recommendation with Big Data Support in Professional Social Networks," *IEEE Access*, vol. 6, no. 1, pp. 77725–77739, December 2018.
85. Y. Feng, P. Zhou, D. Wu, Y. Hu, "Accurate Content Push for Content-Centric Social Networks: A Big Data-Support Online Learning Approach," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 2, no. 6, pp. 426–438, December 2018.
86. J. He, Z. Tang, Z. Ding, D. Wu, "Successive Interference Cancellation and Fractional Frequency Reuse For LTE Uplink Communications," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 11, pp. 10528–10542, November 2018.
87. Y. Xue, P. Zhou, S. Mao, D. Wu, Y. Zhou, "Pure-Exploration Bandits for Channel Probing in Mission-Critical Wireless Communications," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 11, pp. 10995–11007, November 2018.
88. X. Cao, X. Zhu, Z. Tian, J. Chen, D. Wu, W. Du, "A knowledge-transfer-based learning framework for airspace operation complexity evaluation," *Transportation Research Part C*, vol. 95, pp. 61–81, October 2018.
89. P. Yang, X. Cao, X. Xi, Z. Xiao, D. Wu, "Three-Dimensional Drone-Cell Deployment for Congestion Mitigation in Cellular Networks," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 10, pp. 9867–9881, October 2018.
90. Y. Zhu, J. Li, Q. Huang, D. Wu, "Game Theoretic Approach for Network Access Control in Heterogeneous Networks," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 10, pp. 9856–9866, October 2018.
91. K. Wu, X. Cao, Z. Chen, D. Wu, "Adaptive Mobile Video Delivery Based on Fountain Codes and DASH: A Survey," *ZTE Communications*, vol. 16, no. 39, pp. 9–14, September 2018.
92. X. Cao, P. Yang, M. Alzenad, X. Xi, D. Wu, H. Yanikomeroglu, "Airborne Communication Networks: A Survey," *IEEE Journal on Selected Areas in Communications (JSAC)*, vol. 36, no. 9, pp. 1907–1926, September 2018.
93. Q. Huang, J. Li, Y. Zhu, D. Wu, "Trickle Irrigation: Congestion Relief for Communication with Network Coding," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 9, pp. 8695–8708, September 2018.
94. L. Zhu, J. Zhang, Z. Xiao, X. Cao, D. Wu, X.-G. Xia, "Joint Power Control and Beamforming for Uplink Non-Orthogonal Multiple Access in 5G Millimeter-Wave Communications," *IEEE Transactions on Wireless Communications*, vol. 17, no. 9, pp. 6177–6189, September 2018.
95. Y. Zhu, J. Li, Q. Huang, D. Wu, "Miss and Forward: Exploiting Diversity with Intra-session Network Coding," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 5, pp. 4020–4030, May 2018.
96. P. Brahma, Y. She, S. Li, J. Li, D. Wu, "Reinforced Robust Principal Component Pursuit," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 29, no. 5, pp. 1525–1538, May 2018.
97. C. Yin, Z. Xiao, X. Cao, X. Xi, P. Yang, D. Wu, "Offline and Online Search: UAV Multi-Objective Path Planning under Dynamic Urban Environment," *IEEE Internet of Things Journal*, vol. 5, no. 2, pp. 546–558, April 2018.

98. J. Zhu, C. Xu, J. Guan, D. Wu, "Differentially Private Distributed Online Algorithms over Time-Varying Directed Networks," *IEEE Transactions on Signal and Information Processing over Networks*, vol. 4, no. 1, pp. 4–17, March 2018.
99. K. Sun, H. Zhang, D. Wu, H. Zhuang, "MPC-based Delay-Aware Fountain Codes for Real-Time Video Communication," *IEEE Internet of Things Journal*, vol. 5, no. 1, pp. 415–424, February 2018.
100. C. Li, H. Xiong, J. Zou, D. Wu, "Joint Dynamic Rate Control and Transmission Scheduling for Scalable Video Multirate Multicast over Wireless Networks," *IEEE Transactions on Multimedia*, vol. 20, no. 2, pp. 361–378, February 2018.
101. T. Qiu, R. Qiao, D. Wu, "EABS: An Event-Aware Backpressure Scheduling Scheme for Emergency Internet of Things," *IEEE Transactions on Mobile Computing*, vol. 17, no. 1, pp. 72–84, January 2018.
102. Z. Chen, P. Fan, D. Wu, K. Ben Letaief, "Weighted Sum-Throughput Maximization for MIMO Broadcast Channel: Energy Harvesting with Hybrid Energy Storage," *Journal of Communications and Networks*, vol. 19, no. 6, pp. 678–692, December 2017.
103. T. Qiu, X. Liu, M. Han, H. Ning, D. Wu, "A Secure Time Synchronization Protocol against Fake Timestamps for Large Scale Internet of Things," *IEEE Internet of Things Journal*, vol. 4, no. 6, pp. 1879–1889, December 2017.
104. X. Li, Q. Huang, D. Wu, "Distributed Large-scale Co-Simulation for IoT-aided Smart Grid Control," *IEEE Access*, vol. 5, no. 1, pp. 19951–19960, December 2017.
105. P. Zhou, Q. Wang, W. Wang, Y. Hu, D. Wu, "Near-Optimal and Practical Jamming-Resistant Energy-Efficient Cognitive Radio Communications," *IEEE Transactions on Information Forensics and Security*, vol. 12, no. 11, pp. 2807–2822, November 2017.
106. Y. Zhu, J. Li, Q. Huang, D. Wu, "Regret Benefit Ratio Link Scheduler for Wireless Backhaul with Directional Antennas," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 11, pp. 10220–10232, November 2017.
107. F. Liu, Y. Wang, M. Lin, K. Liu, D. Wu, "A Distributed Routing Algorithm for Data Collection in Low-Duty-Cycle Wireless Sensor Networks," *IEEE Internet of Things Journal*, vol. 4, no. 5, pp. 1420–1433, October 2017.
108. T. Qiu, A. Zhao, F. Xia, W. Si, D. Wu, "ROSE: Robustness Strategy for Scale-Free Wireless Sensor Networks," *IEEE/ACM Transactions on Networking*, vol. 25, no. 5, pp. 2944–2959, October 2017.
109. Z. Chen, Y. Dong, P. Fan, D. Wu, K. B. Letaief, "Multiple-Layer Power Allocation for Two-user Gaussian Interference Channels," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 10, pp. 9162–9176, October 2017.
110. Z. Zhang, H. Zhang, H. Dai, X. Chen, D. Wu, "Fountain-Coded File Spreading over Mobile Networks," *IEEE Transactions on Wireless Communications*, vol. 16, no. 10, pp. 6766–6778, October 2017.
111. P. Yang, X. Cao, C. Yin, Z. Xiao, X. Xi, D. Wu, "Proactive Drone-Cell Deployment: Overload Relief for Cellular Network under Flash Crowd Traffic," *IEEE Transactions on Intelligent Transportation Systems*, vol. 18, no. 10, pp. 2877–2892, October 2017.

112. C. Pan, H. Shan, X. Cao, X. Li, D. Wu, "Leveraging Spatial Context Disparity for Power Line Detection," *Cognitive Computation*, vol. 9, pp. 766–779, August 2017.
113. R. Fang, R. Al-Bayaty, D. Wu, "BNB Method for No-Reference Image Quality Assessment," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 27, no. 7, pp. 1381–1391, July 2017.
114. L. Yan, B. Bai, W. Chen, D. Wu, "New Word Extraction From Chinese Financial Documents," *IEEE Signal Processing Letters*, vol. 24, no. 6, pp. 770–773, June 2017.
115. H. Shan, J. Zhang, X. Cao, X. Li, D. Wu, "Multiple Auxiliaries Assisted Airborne Power Line Detection," *IEEE Transactions on Industrial Electronics*, vol. 64, no. 6, pp. 4810–4819, June 2017.
116. Y. Niu, C. Gao, Y. Li, L. Su, D. Jin, Y. Zhu, D. Wu, "Energy Efficient Scheduling for mmWave Backhauling of Small Cells in Heterogeneous Cellular Networks," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 3, pp. 2674–2687, March 2017.
117. Z. Chen, P. Fan, D. Wu, "Joint Power Allocation and Strategy Selection for Half-duplex Relay System," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 3, pp. 2144–2157, March 2017.
118. Z. Li, W. Du, Y. Zheng, M. Li, D. Wu, "From Rateless to Hopless," *IEEE/ACM Transactions on Networking*, vol. 25, no. 1, pp. 69–82, February 2017.
119. J. Li, Y. Zhu, D. Wu, "Practical Distributed Scheduling for QoS-aware Small Cell mmWave Mesh Backhaul Network," *Ad Hoc Networks*, vol. 55, pp. 62–71, February 2017.
120. P. Zhou, W. Wei, K. Bian, D. Wu, Y. Hu, Q. Wang, "Private and Truthful Aggregative Game for Large-Scale Spectrum Sharing," accepted by *IEEE Journal on Selected Areas in Communications (JSAC)*, Special Issue on Game Theory for Networks, vol. 35, no. 2, pp. 463–477, February 2017.
121. Y. She, S. Li, D. Wu, "Robust Orthogonal Complement Principal Component Analysis," *Journal of the American Statistical Association*, vol. 111, no. 514, pp. 763–771, 2016.
122. H. Zhang, K. Sun, Q. Huang, Y. Wen, D. Wu, "FUN Coding: Design and Analysis," *IEEE/ACM Transactions on Networking*, vol. 24, no. 6, pp. 3340–3353, December 2016.
123. P. Brahma, D. Wu, Y. She, "Why Deep Learning Works: A Manifold Disentanglement Perspective," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 27, no. 10, pp. 1997–2008, October 2016.
124. H. Zhang, Y. Wen, Q. Huang, D. Wu, "File Transfer between Charging Stations Goes Infrastructureless: A Code-Delay Tradeoff," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 10, pp. 8682–8695, October 2016.
125. Y. Niu, C. Gao, Y. Li, D. Jin, L. Su, D. Wu, "Boosting Spatial Reuse via Multiple Paths Multi-Hop Scheduling for Directional mmWave WPANs," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 8, pp. 6614–6627, August 2016.
126. P. Zhou, Y. Zhou, D. Wu, H. Jin, "Differentially Private Online Learning for Cloud-Based Video Recommendation with Multimedia Big Data in Social Networks," *IEEE Transactions on Multimedia*, vol. 18, no. 6, pp. 1217–1229, June 2016.
127. X. Hou, Y. Li, D. Jin, D. Wu, S. Chen, "Modeling the Impact of Mobility on the Connectivity of Vehicular Networks in Large-Scale Urban Environment," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 4, pp. 2753–2758, April 2016.

128. Z. Chen, Q. Wang, D. Wu, P. Fan, "Two-dimensional Evolutional Spectrum Approach to Non-stationary Fading Channel Modeling," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 3, pp. 1083–1097, March 2016.
129. W. Feng, Y. Niu, Y. Li, B. Gao, S. Li, J. Peng, D. Wu, "On the Throughput Enhancement of IEEE 802.11ad Through STDMA Scheduling of Multiple Co-Channel Networks," *IET Communications*, vol. 10, no. 4, pp. 425–434, March 2016.
130. J. Kong, T. Li, D. Wu, "RVIP: An Indistinguishable Approach to Scalable Network Simulation at Real Time," *Wireless Communications & Mobile Computing*, vol. 15, no. 18, pp. 2219–2232, December 2015.
131. G. Han, Y. Dong, H. Guo, L. Shu, D. Wu, "Cross-layer Optimized Routing in Wireless Sensor Networks with Duty-cycle and Energy Harvesting," *Wireless Communications & Mobile Computing*, vol. 15, no. 16, pp. 1957–1981, November 2015.
132. C. Li, H. Xiong, D. Wu, "Delay-Rate-Distortion Optimized Rate Control for End-to-end Video Communication over Wireless Channels," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, no. 10, pp. 1665–1681, October 2015.
133. H. Huang, H. Yin, G. Min, D. Wu, Y. Wu, T. Zuo, K. Li, "Network Distance Prediction for Enabling Service-Oriented Applications over Large-Scale Networks," *IEEE Communications Magazine*, vol. 53, no. 8, pp. 166–174, August 2015.
134. Q. Chen, D. Wu, "Delay-Rate-Distortion Model for Real-Time Video Communication," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, no. 8, pp. 1376–1394, August 2015.
135. K. Sun, D. Wu, "Video Rate Control Strategies for Cloud Gaming," *Journal of Visual Communication and Image Representation*, vol. 30, pp. 234–241, July 2015.
136. Y. Deng, C. Lin, D. Wu, F. Ren, "Relocation Routing for Energy Balancing in Mobile Sensor Networks," *Wireless Communications & Mobile Computing*, vol. 15, no. 10, pp. 1418–1432, July 2015.
137. Q. Huang, X. Li, J. Zhao, D. Wu, X.-Y. Li, "Social Networking Reduces Peak Power Consumption in Smart Grid," *IEEE Transactions on Smart Grid*, vol. 6, no. 3, pp. 1403–1413, May 2015.
138. S. Li, D. Wu, "Modularity Based Image Segmentation," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, no. 4, pp. 570–581, April 2015.
139. Z. Ding, Y. Song, D. Wu, Y. Fang, "Capacity Region and Dynamic Control of Wireless Networks under Per-link Queueing," *Wireless Communications & Mobile Computing*, vol. 15, no. 4, pp. 787–799, March 2015.
140. Y. Niu, Y. Li, D. Jin, L. Su, D. Wu, "Blockage Robust and Efficient Scheduling for Directional mmWave WPANs," *IEEE Transactions on Vehicular Technology*, vol. 64, no. 2, pp. 728–742, February 2015.
141. Y. She, Y. He, S. Li, D. Wu, "Joint Association Graph Screening and Decomposition for Large-scale Linear Dynamical Systems," *IEEE Transactions on Signal Processing*, vol. 63, no. 2, pp. 389–401, January 15, 2015.
142. W. Zhang, Y. Wen, D. Wu, "Collaborative Task Execution in Mobile Cloud Computing under Stochastic Wireless Channel," *IEEE Transactions on Wireless Communications*, vol. 14, no. 1, pp. 81–93, January 2015.

143. Y. She, Y. He, D. Wu, "Learning the Topology and Dynamics of Large Recurrent Neural Networks," *IEEE Transactions on Signal Processing*, vol. 62, no. 22, pp. 5881–5891, November 15, 2014.
144. J. Xu, D. Wu, "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," *Journal of Visual Communication and Image Representation*, vol. 25, no. 8, pp. 1886–1893, November 2014.
145. Y. Li, X. Zhu, D. Jin, D. Wu, "Multiple Content Dissemination in Roadside Unit Aided Vehicular Opportunistic Networks," *IEEE Transactions on Vehicular Technology*, vol. 63, no. 8, pp. 3947–3956, October 2014.
146. S. Yu, Y. Tian, S. Guo, D. Wu, "Can We Beat DDoS Attacks in Clouds?" *IEEE Transactions on Parallel and Distributed Systems*, vol. 25, no. 9, pp. 2245–2254, September 2014.
147. B. Tang, B. Ye, S. Guo, S. Lu, D. Wu, "Order-Optimal Information Dissemination in MANETs via Network Coding," *IEEE Transactions on Parallel and Distributed Systems*, vol. 25, no. 7, pp. 1841–1851, July 2014.
148. C. Li, D. Wu, H. Xiong, "Delay-Power-Rate-Distortion Model for Wireless Video Communication Under Delay and Energy Constraints," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 24, no. 7, pp. 1170–1183, July 2014.
149. H.-R. Lee, Y.-W. Jeong, J.-S. Kim, D. Wu, and K.-D. Seo, "Estimation of Accurate Effective Loss Rate for FEC Video Transmission," *Signal Processing: Image Communication*, vol. 29, no. 6, pp. 678–698, July 2014.
150. Y. Li, D. Jin, L. Su, L. Zeng, D. Wu, "Optimal Mobility Control with Energy Constraint in Delay Tolerant Networks," *Wireless Communications & Mobile Computing*, vol. 14, no. 10, pp. 949–962, July 2014.
151. Y. Deng, C. Lin, F. Ren, D. Wu, "Optimal Power Scheduling in 802.11n Wireless Networks for Real-Time Services," *Wireless Communications & Mobile Computing*, vol. 14, no. 9, pp. 877–890, June 2014.
152. W. Zhang, Y. Wen, D. Wu, J. Cai, "Towards Transcoding as a Service in Multimedia Cloud: Energy-Efficient Job Dispatching Algorithm," *IEEE Transactions on Vehicular Technology*, vol. 63, no. 5, pp. 2002–2012, June 2014.
153. Y. Zhou, G. Hu, D. Wu, "A Data Mining System for Distributed Abnormal Event Detection in Backbone Networks," *Security and Communication Networks*, vol. 7, no. 5, pp. 904–913, May 2014.
154. Q. Wang, D. Wu, P. Fan, "Joint Evolutionary Spectrum and Autoregressive-Based Approach to Modeling Non-stationary Flat Fading Channels," *Wireless Communications & Mobile Computing*, vol. 14, no. 4, pp. 472–486, March 2014.
155. X. Dong, X. Li, D. Wu, "RED Theory for Quality of Service Provisioning in Wireless Communications," *Wireless Communications & Mobile Computing*, vol. 14, no. 2, pp. 161–174, February 2014.
156. L. Yang, P. Hao, D. Wu, "Approximating Vector Quantization by Transformation and Scalar Quantization," *IET Communications*, vol. 8, no. 3, pp. 324–334, 2014.

157. Q. Wang, D. Wu, P. Fan, "An Evolutionary Spectrum Approach to Modeling Non-stationary Fading Channels," *Wireless Communications & Mobile Computing*, vol. 14, no. 1, pp. 85–102, January 2014.
158. Y. Li, W. Ren, D. Jin, P. Hui, L. Zeng, D. Wu, "Potential Predictability of Vehicular Staying Time for Large Scale Urban Environment," *IEEE Transactions on Vehicular Technology*, vol. 16, no. 1, pp. 242–252, January 2014.
159. J. He, Z. Xue, D. Wu, D. O. Wu, Y. Wen, "CBM: Online Strategies on Cost-aware Buffer Management for Mobile Video Streaming," *IEEE Transactions on Multimedia*, vol. 16, no. 1, pp. 322–333, January 2014.
160. H. Yin, X. Zhang, T. Zhan, Y. Zhang, G. Min, D. Wu, "NetClust: a Framework for Scalable and Pareto-Optimal Media Server Placement," *IEEE Transactions on Multimedia*, vol. 15, no. 8, pp. 2114–2124, December 2013.
161. Y. She, J. Wang, H. Li, D. Wu, "Grouped Iterative Spectrum Thresholding for Super-Resolution Sparse Spectral Selection," *IEEE Transactions on Signal Processing*, vol. 61, no. 24, pp. 6371–6386, December 2013.
162. Y. He, Y. She, D. Wu, "Stationary-Sparse Causality Network Learning," *Journal of Machine Learning Research*, vol. 14, pp. 3073–3104, October 2013.
163. W. Zhang, Y. Wen, K. Guan, D. Kilper, H. Luo, D. Wu, "Energy-Optimal Mobile Cloud Computing under Stochastic Wireless Channel," *IEEE Transactions on Wireless Communications*, vol. 12, no. 9, pp. 4569–4581, September 2013.
164. Q. Huang, D. Wu, "Flatten a Curved Space by Kernel," *IEEE Signal Processing Magazine*, vol. 30, no. 5, pp. 132–142, September 2013.
165. X. Dong, X. Li, D. Wu, "Recursive ML Estimation of Time-Varying Carrier Frequency Offset for OFDM systems," *Wireless Communications & Mobile Computing*, vol. 13, no. 11, pp. 1014–1026, August 2013.
166. Y. Jo, D. Wu, "On the Performance of Joint Space-Frequency Pre-filtering and Equalization for Down-link MC-CDMA," *Wireless Communications & Mobile Computing*, vol. 13, no. 9, pp. 874–883, June 2013.
167. Z. Ding, Y. Guo, D. Wu, Y. Fang, "A Market based Scheme to Integrate Distributed Wind Energy," *IEEE Transactions on Smart Grid*, vol. 4, no. 2, pp. 976–984, June 2013.
168. Y. Hu, D. Wu, "Frequency Shift Filter-Based Multi-carrier Transceiver," *Wireless Communications & Mobile Computing*, vol. 13, no. 6, pp. 539–564, April 2013.
169. Z. Wang, L. Sun, W. Zhu, S. Yang, H. Li, D. Wu, "Joint Social and Content Recommendation for User Generated Videos in Online Social Network," *IEEE Transactions on Multimedia*, vol. 15, no. 3, pp. 698–709, April 2013.
170. Y. Hu, D. Wu, A. Nucci, "Fuzzy-Clustering-Based Decision Tree Approach for Large Population Speaker Identification," *IEEE Transactions on Audio, Speech and Language Processing*, vol. 21, no. 4, pp. 762–774, April 2013.
171. Z. Ding, D. Wu, "Sliding Mode Based Congestion Control and Scheduling for Multi-class Traffic over Per-link Queueing Wireless Networks," *IEEE Transactions on Vehicular Technology*, vol. 62, no. 3, pp. 1276–1288, March 2013.

172. B. Sun, D. Wu, "Self-Organizing-Queue Based Clustering," *IEEE Signal Processing Letters*, vol. 19, no. 12, pp. 902–905, December 2012.
173. Q. Wang, D. Wu, P. Fan, "Effective Capacity of a Correlated Nakagami-m Fading Channel," *Wireless Communications & Mobile Computing*, vol. 12, no. 14, pp. 1225–1238, October 2012.
174. L. Yang, D. Wu, "Adaptive Quantization Using Piecewise Companding and Scaling for Gaussian Mixture," *Journal of Visual Communication and Image Representation*, vol. 23, no. 7, pp. 959–971, October 2012.
175. B. Han, C. Paulson, D. Wu, "Depth Based Image Registration via 3D Geometric Segmentation," *IET Computer Vision*, vol. 6, no. 5, pp. 397–406, September 2012.
176. X. Li, X. Dong, D. Wu, "Queue Length Aware Power Control for Delay-Constrained Communication over Fading Channels," *Wireless Communications & Mobile Computing*, vol. 12, no. 10, pp. 901–909, July 2012.
177. J. Xu, D. Wu, "Ripplet Transform Type II Transform for Feature Extraction," *IET Image Processing*, vol. 6, no. 4, pp. 374–385, June 2012.
178. Z. Chen, D. Wu, P. Fan, K. Ben Letaief, "Leakage-Probability-Constrained Secrecy Capacity of a Fading Channel," *Security and Communication Networks*, vol. 5, no. 6, pp. 583–593, June 2012.
179. L. Yang, J. Tian, D. Wu, "Content Based Image Authentication by Feature Point Clustering and Matching," *Security and Communication Networks*, vol. 5, no. 6, pp. 636–647, June 2012.
180. Z. Yuan, T. Lu, Y. Huang, D. Wu, H. Yu, "Addressing Visual Consistency in Video Retargeting: a Refined Homogeneous Approach," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 22, no. 6, pp. 890–903, June 2012.
181. W. Liu, K. Lu, J. Wang, L. Huang, D. Wu, "On the Throughput Capacity of Wireless Sensor Networks with Mobile Relays," *IEEE Transactions on Vehicular Technology*, vol. 61, no. 4, pp. 1801–1809, May 2012.
182. L. Yang, Q. Chen, J. Tian, D. Wu, "Robust Track-and-Trace Video Watermarking," *Security and Communication Networks*, vol. 5, no. 4, pp. 353–363, April 2012.
183. Z. Chen, P. Pahalawatta, A. M. Tourapis, D. Wu, "Improved Estimation of Transmission Distortion for Error-resilient Video Coding," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 22, no. 4, pp. 636–647, April 2012.
184. W. Ye, C. Paulson, D. Wu, "Target detection for VHF SAR ground surveillance," *IET Computer Vision*, vol. 6, no. 2, pp. 101–110, March 2012.
185. J. Wang, D. Wu, "Tight Bounds for the First Order Marcum Q-Function," *Wireless Communications & Mobile Computing*, vol. 12, no. 4, pp. 293–301, March 2012.
186. Z. Chen, D. Wu, "Rate-Distortion Optimized Cross-layer Rate Control in Wireless Video Communication," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 22, no. 3, pp. 352–365, March 2012.
187. Z. Chen, D. Wu, "Prediction of Transmission Distortion for Wireless Video Communication: Analysis," *IEEE Transactions on Image Processing*, vol. 21, no. 3, pp. 1123–1137, March 2012.

188. Y. Hu, D. Wu, A. Nucci, "Pitch-based Gender Identification with Suspicious Speaker Detection Scheme," *Security and Communication Networks*, vol. 5, no. 2, pp. 211–225, February 2012.
189. J. Wang, J. Fan, H. Li, D. Wu, "Kernel-based Feature Extraction under Maximum Margin Criterion," *Journal of Visual Communication and Image Representation*, vol. 23, no. 1, pp. 53–62, January 2012.
190. Q. Chen, J. Tian, L. Yang, D. Wu, "A Robust Video Hash Scheme Based on 2D-DCT Temporal Maximum Occurrence," *Security and Communication Networks*, vol. 4, no. 12, pp. 1369–1377, December 2011.
191. L. Yang, Q. Chen, J. Tian, D. Wu, "Content Based Image Hashing Using Companding and Gray Code," *Security and Communication Networks*, vol. 4, no. 12, pp. 1378–1386, December 2011.
192. Q. Wang, D. Wu, P. Fan, "Effective Capacity of a Correlated Rayleigh Fading Channel," *Wireless Communications & Mobile Computing*, vol. 11, no. 11, pp. 1485–1494, November 2011.
193. X. Li, X. Dong, D. Wu, "Hierarchical Queue-Length-Aware Power Control for Real-Time Applications over Wireless Networks," *Wireless Communications & Mobile Computing*, vol. 11, no. 11, pp. 1473–1484, November 2011.
194. X. Li, F. Cao, X. Dong, D. Wu, "Power Control for Delay Constrained Multichannel Communications Using Outdated CSI," *Wireless Communications & Mobile Computing*, vol. 11, no. 9, pp. 1302–1311, September 2011.
195. H. Oh, D. Wu, H. Song, "An Effective Mesh-Pull-based P2P Video Streaming System using Fountain Codes with Variable Symbol Sizes," *Computer Networks*, vol. 55, no. 12, pp. 2746–2759, August 2011.
196. B. Han, C. Paulson, D. Wu, "3D Dense Reconstruction from 2D Video Sequence via 3D Geometric Segmentation," *Journal of Visual Communication and Image Representation*, vol. 22, no. 5, pp. 421–431, July 2011.
197. Y. Li, D. Wu, D. Jin, L. Su, L. Zeng, "The Impact of Node Selfishness on Multicasting in Delay Tolerant Networks," *IEEE Transactions on Vehicular Technology*, vol. 60, no. 5, pp. 2224–2238, June 2011.
198. D. Wu, C. Zhou, "Fault-Tolerant and Scalable Key Management for Smart Grid," *IEEE Transactions on Smart Grid*, vol. 2, no. 2, pp. 375–381, June 2011.
199. X. Li, X. Dong, D. Wu, "On Optimal Power Control for Delay-Constrained Communication over Fading Channels," *IEEE Transactions on Information Theory*, vol. 57, no. 6, pp. 3371–3389, June 2011.
200. J. Fan, D. Wu, A. Nucci, R. Keralapura, and L. Gao, "Protocol Oblivious Classification of Multimedia Traffic," *Security and Communication Networks*, vol. 4, no. 4, pp. 357–371, April 2011.
201. L. Yang, P. Hao, D. Wu, "Stabilization and Optimization of PLUS Factorization and Its Application in Image Coding," *Journal of Visual Communication and Image Representation*, vol. 22, no. 1, pp. 9–22, January 2011.
202. Z. Chen, D. Wu, "Prediction of Transmission Distortion for Wireless Video Communication: Algorithm and Application," *Journal of Visual Communication and Image Representation*, vol. 21, no. 8, pp. 948–964, November 2010.

203. Y. Li, D. Peng, L. Su, L. Zeng, D. Wu, "Energy Efficient Optimal Opportunistic Forwarding for Delay Tolerant Networks," *IEEE Transactions on Vehicular Technology*, vol. 59, no. 9, pp. 4500–4512, November 2010.
204. Q. Wang, D. Wu, P. Fan, "Delay-Constrained Optimal Link Scheduling in Wireless Sensor Networks," *IEEE Transactions on Vehicular Technology*, vol. 59, no. 9, pp. 4564–4577, November 2010.
205. J. Xu, L. Yang, and D. Wu, "Ripplet: A new transform for image processing," *Journal of Visual Communication and Image Representation*, vol. 21, no. 7, pp. 627–639, October 2010.
206. Y. Zhou, D. Wu, and S. M. Nettles, "On Architecture of Authentication, Authorization, and Accounting for Real-Time Secondary Market Services," *International Journal of Wireless and Mobile Computing*, vol. 4, no. 3, pp. 240–248, September 2010.
207. Q. Chen and D. Wu, "Image Denoising by Bounded Block Matching and 3D Filtering," *Signal Processing*, vol. 90, no. 9, pp. 2778–2783, September 2010.
208. Y. Jo, D. Wu, "On Cracking Direct-Sequence Spread-Spectrum Systems," *Wireless Communications & Mobile Computing*, vol. 10, no. 7, pp. 986–1001, July 2010.
209. B. Han, F. Wu, D. Wu, "Image Representation by Compressive Sensing for Visual Sensor Networks," *Journal of Visual Communication and Image Representation*, vol. 21, no. 4, pp. 325–333, May 2010.
210. Z. Chen, P. Fan, D. Wu, K. B. Letaief, "On the Multi-Rate Division with Limited Feedback for One Source Multiple Destinations Wireless Transmission Systems," *International Journal of Wireless Communications and Networking*, vol. 1, no. 2, pp. 105–113, December 2009.
211. J. Wang, H. Zhai, P. Li, Y. Fang, and D. Wu, "Directional Medium Access Control for Ad Hoc Networks," *ACM Wireless Networks*, vol. 15, no. 8, pp. 1059–1073, November 2009.
212. Y. Sun, D. Wu, "Feature Extraction through Local Learning," *Statistical Analysis and Data Mining*, vol. 2, no. 1, pp. 34–47, July 2009.
213. J. Kong, X. Hong, D. Wu, "Protection Against Mobile Tracing through Motion MIX for Mobile Wireless Nodes," *IEEE Transactions on Vehicular Technology*, vol. 58, no. 5, pp. 2406–2416, June 2009.
214. C. Tang, D. Wu, A. T. Chronopoulos, C. S. Raghavendra, "Efficient Multi-Party Digital Signature Using Adaptive Secret Sharing for Low-Power Devices," *IEEE Transactions on Wireless Communications*, vol. 8, no. 2, pp. 882–889, Feb. 2009.
215. K. Lu, J. Wang, D. Wu, and Y. Fang, "Performance of a burst-frame-based CSMA/CA protocol: Analysis and enhancement," *ACM Wireless Networks*, vol. 15, no. 1, pp. 87–98, January 2009.
216. H. Yin, C. Lin, Q. Zhang, Z. Chen, and D. Wu, "TrustStream: A Secure and Scalable Architecture for Large-scale Internet Media Streaming," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 18, no. 12, pp. 1692–1702, December 2008.
217. Z. He and D. Wu, "Linear Rate Control and Optimum Statistical Multiplexing for H.264 Video Broadcast," *IEEE Transactions on Multimedia*, vol. 10, no. 7, pp. 1237–1249, November 2008.
218. X. Li, D. Wu, "Power Control and Channel Allocation for Real-time Applications in Cellular Networks," *Wireless Communications & Mobile Computing*, vol. 8, no. 6, pp. 705–713, June 2008.

219. A. Avudainayagam, J. M. Shea, and D. Wu, "Hyper-Trellis Decoding of Pixel-Domain Wyner-Ziv Video Coding," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 18, no. 5, pp. 557–568, May 2008.
220. W. Kumwilaisak, C.-C. J. Kuo, and D. Wu, "Fading Channel Modeling via Variable Length Markov Chain (VLMC) Technique," *IEEE Transactions on Vehicular Technology*, vol. 57, no. 3, pp. 1338–1358, May 2008.
221. C. Tang, D. Wu, "An Efficient Mobile Authentication Scheme for Wireless Networks," *IEEE Transactions on Wireless Communications*, vol. 7, no. 4, pp. 1408–1416, April 2008.
222. C. Tang, D. Wu, "Mobile Privacy in Wireless Networks - Revisited," *IEEE Transactions on Wireless Communications*, vol. 7, no. 3, pp. 1035–1042, March 2008.
223. J. Fan, D. Wu, K. Lu, and A. Nucci, "An Efficient Data Structure for Network Anomaly Detection," *Security and Communication Networks*, Wiley, vol. 1, pp. 107–124, February 2008.
224. C. Hu, B. Liu, Z. Liu, S. Gao, D. Wu, "Stochastic Optimization of Distributed Sampling System Placement for Passive Measurement," *Journal of Information and Computing Science*, vol. 3, no. 1, pp. 21–38, February 2008.
225. D. Wu and R. Negi, "Power Control and Scheduling for Guaranteeing Quality of Service in Cellular Networks," *Wireless Communications & Mobile Computing*, vol. 8, no. 1, pp. 75–92, January 2008.
226. K. Lu, D. Wu, J. Fan, S. Todorovic, and A. Nucci, "Robust and Efficient Detection of DDoS Attacks for Large-Scale Internet," *Computer Networks*, vol. 51, no. 18, pp. 5036–5056, December 2007.
227. C. Tang, D. Wu, "Distance-bounding based Defense Against Relay Attacks in Wireless Networks," *IEEE Transactions on Wireless Communications*, vol. 6, no. 11, pp. 4071–4078, Nov. 2007.
228. D. Wu and R. Negi, "Effective Capacity Channel Model for Frequency-selective Fading Channels," *ACM Wireless Networks*, vol. 13, no. 3, pp. 299–310, June 2007.
229. K. Wang, F. Yang, Q. Zhang, D. Wu, and Y. Xu, "Distributed Cooperative Rate Adaptation for Energy Efficiency in IEEE 802.11-based Multi-hop Networks," *IEEE Transactions on Vehicular Technology*, vol. 56, no. 2, pp. 888–898, March 2007.
230. J. Zhao, D. Wu, D. Erdogmus, Y. Fang, Z. He, "Adaptive Motion Estimation Schemes Using Maximum Mutual Information Criterion," *Journal of Wireless Communications and Mobile Computing*, Special Issue on Video Communications for 4G Wireless Systems, vol. 7, no. 2, pp. 205–215, Feb. 2007.
231. J. Wang, Y. Fang and D. Wu, "Enhancing the Performance of Medium Access Control for WLANs with Multi-beam Access Point," *IEEE Transactions on Wireless Communications*, vol. 6, no. 2, pp. 556–565, Feb. 2007.
232. X. Du and D. Wu, "Joint Design of Routing and Medium Access Control for Hybrid Mobile Ad Hoc Networks," *ACM Mobile Networks and Applications (MONET) journal*, vol. 12, no. 1, pp. 57–68, Feb. 2007.
233. K. Lu, D. Wu, Y. Qian, Y. Fang, and R. C. Qiu, "Performance of an Aggregation-based MAC Protocol for High Data Rate Ultra-Wideband Ad Hoc Networks," *IEEE Transactions on Vehicular Technology*, vol. 56, no. 1, pp. 312–321, Jan. 2007.

234. J. Wang, H. Zhai, Y. Fang, J. M. Shea, D. Wu, "OMAR: Utilizing Multiuser Diversity in Wireless Ad Hoc Networks," *IEEE Transactions on Mobile Computing*, vol. 5, no. 12, pp. 1764–1779, Dec. 2006.
235. Y. Zhou, D. Wu, and S. M. Nettles, "On MAC-Layer Denial of Service Attacks in IEEE 802.11 Ad Hoc Networks: Analysis and Counter Measures," *International Journal of Wireless and Mobile Computing*, vol. 1, nos. 3/4, pp. 268–275, 2006.
236. Y. Zheng, K. Lu, D. Wu, and Y. Fang, "Performance Analysis of IEEE 802.11 DCF in Imperfect Channels," *IEEE Transactions on Vehicular Technology*, vol. 55, no. 5, pp. 1648–1656, Sept. 2006.
237. Q. He, D. Wu, and P. Khosla, "A Secure Incentive Architecture for Ad-hoc Networks," *Wireless Communications & Mobile Computing*, Special Issue on Wireless Networks Security, no. 6, pp. 333–346, 2006.
238. Z. He and D. Wu, "Resource Allocation and Performance Analysis of Wireless Video Sensors," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 16, no. 5, pp. 590–599, May 2006.
239. Y. Zhang, W. Liu, Y. Fang, and D. Wu, "Secure localization and authentication in ultra-wideband sensor networks," *IEEE Journal on Selected Areas in Communications (JSAC)*, vol. 24, no. 4, pp. 829–835, April 2006.
240. D. Wu and R. Negi, "Effective Capacity-Based Quality of Service Measures for Wireless Networks," *ACM Mobile Networks and Applications (MONET) journal*, vol. 11, no. 1, pp. 91–99, Feb. 2006.
241. X. Du and D. Wu, "Adaptive Cell-Relay Routing Protocol for Mobile ad hoc Networks," *IEEE Transactions on Vehicular Technology*, vol. 55, no. 1, pp. 278–285, Jan. 2006.
242. X. Du, D. Wu, W. Liu, Y. Fang, "Multi-Class Routing and Medium Access Control for Heterogeneous Mobile Ad Hoc Networks," *IEEE Transactions on Vehicular Technology*, vol. 55, no. 1, pp. 270–277, Jan. 2006.
243. D. Wu, "QoS Provisioning in Wireless Networks," *Wireless Communications and Mobile Computing*, Special Issue on Modelling and Performance Evaluation of Radio Resource QoS for Next-Generation Wireless and Mobile Networks, vol. 5, pp. 957–969, 2005.
244. D. Wu, T. Hou, W. Zhu, Z. He, and Y.-Q. Zhang, "Adaptive QoS Control for Real-time Video Communication over Wireless Channels," *International Journal of Ad Hoc and Ubiquitous Computing*, vol. 1, nos. 1/2, pp. 27–37, 2005.
245. G. Ramachandran, V. Krishnan, D. Wu, and Z. He, "A Model-based Adaptive Motion Estimation Scheme Using Renyi's Entropy for Wireless Video," *Journal of Visual Communication and Image Representation*, Special Issue on Visual Communication in the Ubiquitous Era, vol. 16, no. 4–5, pp. 432–449, Elsevier, August–October 2005.
246. W. Li, B. Liu, L. Shi, Y. Xu, and D. Wu, "Preemptive Packet-Mode Scheduling to Improve TCP Performance," *Springer Lecture Notes in Computer Science (LNCS)*, vol. 3552, pp. 246–258, June 2005.
247. K. Lu, D. Wu, and Y. Fang, "A Novel Framework for Medium Access Control in Ultra-Wideband Ad Hoc Networks," *Dynamics of Continuous, Discrete and Impulsive Systems (Series B)*, Special Issue on Ultra-Wideband (UWB) Wireless Communications for Short Range Communications, vol. 12, no. 3, pp. 427–441, June 2005.

248. D. Wu and R. Negi, "Utilizing Multiuser Diversity for Efficient Support of Quality of Service over a Fading Channel," *IEEE Transactions on Vehicular Technology*, vol. 54, no. 3, pp. 1198–1206, May 2005.
249. Z. He, Y. Liang, L. Chen, I. Ahmad, and D. Wu, "Power-Rate-Distortion Analysis for Wireless Video Communication under Energy Constraints," *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Integrated Multimedia Platforms, vol. 15, no. 5, pp. 645–658, May 2005.
250. Y. Zheng, K. Lu, D. Wu, and Y. Fang, "Performance Analysis Of Frame-Burst-based Medium Access Control Protocols Under Imperfect Wireless Channels," *International Journal of Intelligent Control and Systems*, vol. 10, no. 1, pp. 43–51, March 2005.
251. D. Wu and R. Negi, "Downlink Scheduling in a Cellular Network for Quality of Service Assurance," *IEEE Transactions on Vehicular Technology*, vol. 53, no. 5, Sept. 2004.
252. Q. He, D. Wu, and P. Khosla, "Quest for Personal Control over Mobile Location Privacy," *IEEE Communications Magazine*, vol. 42, no. 5, pp. 130–136, May 2004.
253. D. Wu and R. Negi, "Effective Capacity: A Wireless Link Model for Support of Quality of Service," *IEEE Transactions on Wireless Communications*, vol. 2, no. 4, pp. 630–643, July 2003.
254. D. Wu, T. Hou, W. Zhu, H.-J. Lee, T. Chiang, Y.-Q. Zhang, H. J. Chao, "MPEG-4 Video Transport over the Internet: A Summary," *IEEE Circuits and Systems Magazine*, vol. 2, no. 1, pp. 43–46, 2002. (Invited paper)
255. D. Wu, T. Hou, W. Zhu, Y.-Q. Zhang, J. Peha, "Streaming Video over the Internet: Approaches and Directions," *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Streaming Video, vol. 11, no. 3, pp. 282–300, March 2001.
256. D. Wu, T. Hou, Y.-Q. Zhang, "Scalable Video Coding and Transport over Broadband Wireless Networks," *Proceedings of the IEEE*, vol. 89, no. 1, pp. 6–20, Jan. 2001. (Invited paper)
257. D. Wu, T. Hou, Y.-Q. Zhang, "Transporting Real-time Video over the Internet: Challenges and Approaches," *Proceedings of the IEEE*, vol. 88, no. 12, pp. 1855–1875, Dec. 2000. (Invited paper)
258. D. Wu, T. Hou, W. Zhu, H.-J. Lee, T. Chiang, Y.-Q. Zhang, H. J. Chao, "On End-to-End Architecture for Transporting MPEG-4 Video over the Internet," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 10, no. 6, pp. 923–941, Sept. 2000. (**IEEE CSVT Transactions Best Paper Award**)
259. D. Wu, T. Hou, B. Li, W. Zhu, Y.-Q. Zhang, H. J. Chao, "An End-to-End Approach for Optimal Mode Selection in Internet Video Communication: Theory and Application," *IEEE Journal on Selected Areas in Communications (JSAC)*, vol. 18, no. 6, pp. 977–995, June 2000.
260. D. Wu and H. J. Chao, "Buffer Management and Scheduling Schemes for TCP/IP over ATM-GFR," *International Journal of Communication Systems*, vol. 14, no. 4, pp. 345–359, John Wiley, May 2001.
261. D. Wu, T. Hou, B. Li, H. J. Chao, "A Per Flow Based Node Architecture for Integrated Services Packet Networks," *Telecommunication Systems*, vol. 17, nos. 1,2, pp. 135–160, Kluwer Academic Publishers, May/June 2001.

262. T. Hou, D. Wu, B. Li, I. Ahmad, H. J. Chao, "A Differentiated Services Architecture for Multimedia Streaming in Next Generation Internet," *Computer Networks*, vol. 32, no. 2, pp. 185–209, Elsevier, Feb. 2000.
263. D. Wu, T. Hou, Z.-L. Zhang, H. J. Chao, "A Framework of Architecture and Traffic Management Algorithms for Achieving QoS Provisioning in Integrated Services Networks," *International Journal of Parallel and Distributed Systems and Networks*, vol. 3, no. 2, pp. 64–81, ACTA Press, May 2000.
264. D. Wu and H. J. Chao, "Efficient Bandwidth Allocation and Call Admission Control for VBR Service Using UPC Parameters," *International Journal of Communication Systems*, vol. 13, no. 1, pp. 29–50, John Wiley, Feb. 2000.

Selected Conference Publications

1. T. Shao, D. Wu, "Graph-LSTM with Global Attribute for Scene Graph Generation," *Proceedings of International Conference on Artificial Intelligence, Automation and Algorithm (AI2A 2021)*, Guilin, Guangxi, China, July 23–25, 2021.
2. S. C. Dhulipala, A. S. Bretas, C. Ruben, X. Li, D. Wu, "Soft Control: A Novel Application of Internet of Things for Demand Side," *Proceedings of The 52nd North American Power Symposium (NAPS)*, Tempe, Arizona, USA, April 11–13, 2021.
3. X. Xi, X. Cao, P. Yang, J. Chen, D. Wu, "Energy-Efficient Resource Allocation in a Multi-UAV-Aided NOMA Network," *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, Nanjing, China, March 29 – April 1, 2021.
4. Y. Zhou, G. Pu, X. Ma, X. Li, D. Wu, "Communication-Efficient Federated Learning via Dataset Distillation," *Proceedings of NeurIPS Workshop on Scalability, Privacy, and Security in Federated Learning (SpicyFL 2020)*, virtual, December 12, 2020.
5. H. Qiao, D. Oliveira, D. Wu, "A Novel Criterion of Reconstruction-based Anomaly Detection for Sparse-binary Data," *Proceedings of IEEE Global Telecommunications Conference (Globecom 2020)*, Taipei, Taiwan, December 7–11, 2020.
6. P. Yang, X. Xi, T. Quek, J. Chen, X. Cao, D. Wu, "Repeatedly Energy-Efficient and Fair Service Coverage: UAV Slicing," *Proceedings of IEEE Global Telecommunications Conference (Globecom 2020)*, Taipei, Taiwan, December 7–11, 2020.
7. Z. Chen, H. Wang, L. Wu, Y. Zhou, D. Wu, "Spatiotemporal Guided Self-Supervised Depth Completion from LiDAR and Monocular Camera," *Proceedings of IEEE International Conference on Visual Communications and Image Processing (VCIP)*, Macau, China, December 1–4, 2020.
8. X. Yuan, L. Ding, M. Ben Salem, X. Li, D. Wu, "Connecting Web Event Forecasting with Anomaly Detection: A Case Study on Enterprise Web Applications Using Self-Supervised Neural Networks," *Proceedings of EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2020)*, Washington DC, USA, October 21–23, 2020.
9. Q. Zhu, W. Bi, X. Liu, X. Ma, X. Li, D. Wu, "A Batch Normalized Inference Network Keeps the KL Vanishing Away," *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, Seattle, Washington, USA, July 5–10, 2020.

10. X. Yuan, P. He, X. Li, D. Wu, "Adaptive Adversarial Attack on Scene Text Recognition," *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Security and Privacy in Big Data, Toronto, Canada, July 6–9, 2020.
11. T. Qiu, Z. Lu, K. Li, G. Xue, D. Wu, "An Adaptive Robustness Evolution Algorithm with Self-Competition for Scale-free Internet of Things," *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, July 6–9, 2020.
12. C. Liu, Y. Zhao, Z. Dai, Y. Yuan, G. Wang, D. Wu, K. K. Leung, "Curiosity-Driven Energy-Efficient Worker Scheduling in Vehicular Crowdsourcing: A Deep Reinforcement Learning Approach," *Proceedings of IEEE International Conference on Data Engineering*, Dallas, TX, USA, April 20–24, 2020.
13. C. Sur, P. Liu, Y. Zhou, D. Wu, "Semantic Tensor Product for Image Captioning," *Proceedings of International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.
14. B. Sun, R. Al-Bayaty, Q. Huang, D. Wu, "Game Theoretical Approach for Non-Overlapping Community Detection," *Proceedings of International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.
15. M. S. Islam, D. Liu, K. Wang, P. Zhou, L. Yu, D. Wu, "A Case Study of HealthCare Platform using Big Data Analytics and Machine Learning," *Proceedings of International Conference on Big Data and Artificial Intelligence (BDAI)*, Guangzhou, China, June 22–24, 2019.
16. C. Zhang, P. Zhou, G. Liu, S. Gong, W. Wang, D. Wu, "Online Learning for Context-Aware Multi-User Package Delivery System with Unmanned Vehicles," *Proceedings of IEEE International Conference on Communications (ICC)*, Shanghai, China, May 20–24, 2019.
17. H. Hao, C. Xu, M. Wang, L. Zhong, D. Wu, "Stochastic Cooperative Multicast Scheduling for Cache-Enabled and Green 5G Networks," *Proceedings of IEEE International Conference on Communications (ICC)*, Shanghai, China, May 20–24, 2019.
18. Q. Huang, Z. Gan, A. Celikyilmaz, D. Wu, J. Wang, X. He, "Hierarchically Structured Reinforcement Learning for Topically Coherent Visual Story Generation," *Proceedings of The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Honolulu, Hawaii, USA, January 27 – February 1, 2019.
19. Q. Huang, L. Deng, D. Wu, C. Liu, X. He, "Attentive Tensor Product Learning," *Proceedings of The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Honolulu, Hawaii, USA, January 27 – February 1, 2019.
20. Q. Huang, P. Zhang, D. Wu, L. Zhang, "Turbo Learning for Captionbot and Drawingbot," *Proceedings of The Thirty-second Annual Conference on Neural Information Processing Systems (NIPS)*, Montreal, Canada, December 3–8, 2018.
21. Z. Chen, S. Wang, D. Wu, T. Huang, L. Duan, "From data to knowledge: deep learning model compression, transmission and communication," *Proceedings of ACM International Conference on Multimedia*, Seoul, Korea, October 22–26, 2018.
22. Y. Chen, Y. Niu, B. Ai, Z. Zhong, D. Wu, "Using Coalition Games for QoS Aware Scheduling in mmWave WPANs," *Proceedings of IEEE 87th Vehicular Technology Conference (VTC 2018-Spring)*, Porto, Portugal, June 3–6, 2018.

23. Q. Huang, P. Smolensky, X. He, L. Deng, D. Wu, “Tensor Product Generation Networks for Deep NLP Modeling,” *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, New Orleans, LA, USA, June 1–6, 2018.
24. A. Zhou, P. Zhou, D. Wu, Y. Hu, S. Ji, “T-PriDO: A Tree-based Privacy-Preserving Distributed Online Big Data Processing System,” *Proceedings of IEEE Conference on Communications and Network Security (CNS)*, Beijing, China, May 30–June 1, 2018.
25. X. Li, Q. Huang, D. Wu, “A Repeated Stochastic Game Approach for Strategic Network Selection in Heterogeneous Networks,” *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
26. Y. Hou, P. Zhou, J. Xu, D. Wu, “Course Recommendation of MOOC with Big Data Support: A Contextual Online Learning Approach,” *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
27. H. Hao, C. Xu, M. Wang, H. Xie, Y. Liu, D. Wu, “Knowledge-centric Proactive Edge Caching over Mobile Content Distribution Network,” *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
28. Q. Huang, P. Smolensky, X. He, L. Deng, D. Wu, “A Neural-Symbolic Approach to Design of CAPTCHA,” *The Thirty-first Annual Conference on Neural Information Processing Systems (NIPS)*, Workshop on Machine Learning and Computer Security, Long Beach, CA, USA, December 4–9, 2017.
29. B. Huang, Z. Chen, Q. Cai, M. Chen, D. Wu, “Coefficient-Group Level Modeling for Low Complexity RDO in HEVC,” *Proceedings of Visual Communications and Image Processing (VCIP)*, Tampa, FL, USA, December 10–13, 2017.
30. Q. Cai, Z. Chen, D. Wu, B. Huang, “Robust Context-Adaptive Residual Rate Model for Frame-Level Bitrate Estimation of HEVC,” *Proceedings of IEEE International Conference on Multimedia & Expo (ICME)*, Hong Kong, July 10–14, 2017.
31. Y. Niu, Z. Feng, Y. Li, Z. Zhong, D. Wu, “Low Complexity and Near-Optimal Beam Selection for Millimeter Wave MIMO Systems,” *Proceedings of International Wireless Communications and Mobile Computing Conference (IWCMC 2017)*, Valencia, Spain, June 26–30, 2017.
32. K. Sun, D. Wu, “Unequal Error Protection for Video Streaming using Delay-aware Fountain Codes,” *Proceedings of IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
33. H. Zhuang, J. Chen, D. Wu, “Joint Access and Backhaul Resource Management for Ultra-Dense Networks,” *Proceedings of IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
34. P. Yang, X. Cao, C. Yin, Z. Xiao, X. Xi, D. Wu, “Routing Protocol Design for Drone-Cell Communication Networks,” *Proceedings of IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.

35. C. Yin, Z. Xiao, X. Cao, X. Xi, P. Yang, D. Wu, "Enhanced Routing Protocol for Fast Flying UAV Network," *Proceedings of IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, Guangdong, China, December 14–16, 2016.
36. C. Pan, X. Cao, D. Wu, "Power Line Detection via Background Noise Removal," *Proceedings of IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Washington, DC, USA, December 7–9, 2016.
37. H. Zhang, Q. Cai, Q. Huang, D. Wu, "Storage-Retrieval-Repair Cost Tradeoff in Network-Coded Distributed Storage Systems," *Proceedings of IEEE Global Telecommunications Conference (GlobeCom)*, Workshop on Cloud Computing Systems, Networks, and Applications, Washington, DC, USA, December 4–8, 2016.
38. A. Chen, P. Brahma, D. Wu, N. Ebner, B. Matthews, J. Crandall, X. Wei, M. Faloutsos, D. Oliveira, "Cross-Layer Personalization as a First Class Citizen for Situation Awareness and Computer Infrastructure Security," *Proceedings of New Security Paradigms Workshop (NSPW)*, C Lazy U Ranch, Colorado, USA, September 26–29, 2016.
39. P. Zhou, L. Chen, D. Wu, "Shortest Path Routing in Unknown Environments: Is the Adaptive Optimal Strategy Available?" *Proceedings of IEEE International Conference on Sensing, Communication and Networking (SECON)*, London, UK, June 27–30, 2016.
40. Y. Zhu, Y. Niu, J. Li, D. Wu, Y. Li, D. Jin, "QoS-aware Scheduling for Small Cell Millimeter Wave Mesh Backhaul," *Proceedings of IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
41. K. Sun, D. Wu, "MPC-based Delay-Aware Fountain Codes for Live Video Streaming," *Proceedings of IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
42. R. Fang, D. Wu, L. Shen, "Evaluation of Image Quality of Experience in Consideration of Viewing Distance," *Proceedings of IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015)*, Chengdu, Sichuan, China, July 12–15, 2015.
43. F. Li, L. Shen, D. Wu, R. Fang, "Full-Reference Quality Assessment of Stereoscopic Images Using Disparity-Gradient-Phase Similarity," *Proceedings of IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015)*, Chengdu, Sichuan, China, July 12–15, 2015.
44. Y. Zhu, Q. Huang, J. Li, D. Wu, "Design and Evaluation of Airborne Communication Networks," *Proceedings of IEEE International Conference on Ubiquitous and Future Networks*, Sapporo, Japan, July 7–10, 2015.
45. Z. Li, W. Du, Y. Zheng, M. Li, D. Wu, "From Rateless to Hopless," *Proceedings of ACM MobiHoc*, Hangzhou, China, June 22–25, 2015.
46. Z. Chen, P. Fan, D. Wu, "A Hybrid DF and CF Scheme with Adaptive Power Allocation for Half-duplex Relay Channel," *Proceedings of IEEE International Conference on Communications (ICC)*, London, UK, June 8–12, 2015.
47. Z. Chen, P. Fan, D. Wu, L. Shen, "On the Power Allocation for Hybrid DF and CF Protocol with Auxiliary Parameter in Fading Relay Channels," *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, New Orleans, LA, USA, March 9–12, 2015.

48. Z. Chen, P. Fan, D. Wu, K. Xiong, K. B. Letaief, "On the Achievable Rates of Full-duplex Gaussian Relay Channel," *Proceedings of IEEE Global Telecommunications Conference (Globecom)*, Austin, TX, USA, December 8–12, 2014.
49. C. Li, H. Xiong, D. Wu, "Delay-Rate-Distortion Optimized Rate Control for Wireless Video Communication," *Proceedings of IEEE International Conference on Image Processing (ICIP)*, Paris, France, October 27–30, 2014.
50. Q. Huang, K. Sun, X. Li, D. Wu, "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," *Proceedings of ACM MobiHoc*, Philadelphia, PA, USA, August 11–14, 2014.
51. Z. Chen, P. Fan, D. Wu, Y. Dong, K. B. Letaief, "On the Achievable Sum Rate of Gaussian Interference Channel via Gaussian Signaling," *Proceedings of IEEE International Symposium on Information Theory*, Honolulu, Hawaii, USA, June 29 – July 4, 2014.
52. X. Wang, M. Chen, Z. Han, D. Wu, T. Kwon, "TOSS: Traffic Offloading by Social Network Service-Based Opportunistic Sharing in Mobile Social Networks," *Proceedings of IEEE INFOCOM 2014*, Toronto, Canada, April 27 – May 2, 2014.
53. C. Li, H. Xiong, J. Zou, D. Wu, "Dynamic Rate Allocation and Opportunistic Routing for Scalable Video Multirate Multicast over Time-Varying Wireless Networks," *Proceedings of IEEE INFOCOM Workshop on Communication and Networking Techniques for Contemporary Video*, Toronto, Canada, April 27 – May 2, 2014.
54. K. Liu, Q. Huang, J. Wang, X. Li, D. Wu, "Improving GPS Service via Social Collaboration," *Proceedings of IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, Hangzhou, China, October 14–16, 2013.
55. Z. Yuan, D. Zhang, D. Wu, and H. Yu, "A Perceptual Rate-Distortion Optimization Approach Based on Piecewise Linear Approximation for Video Coding," *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)*, San Jose, CA, USA, July 15 – 19, 2013.
56. R. Fang, D. Wu, "No-Reference Image Quality Assessment Based on BNB Measurement," *Proceedings of IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
57. C. Li, D. Wu, H. Xiong, "Delay-Power-Rate-Distortion Model for H.264 Video Coding," *Proceedings of IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
58. W. Liu, K. Lu, J. Wang, Y. Qian, L. Huang, J. Liu, and D. Wu, "On the Throughput-Delay Trade-off in Large-Scale MANETs with A Generalized i.i.d. Mobility Model," *Proceedings of IEEE INFOCOM 2013*, Turin, Italy, April 14 – 19, 2013.
59. S. Tang, Q. Huang, X.-Y. Li, and D. Wu, "Smoothing the Energy Consumption: Peak Demand Reduction in Smart Grid," *Proceedings of IEEE INFOCOM 2013*, Turin, Italy, April 14 – 19, 2013.
60. W. Zhang, Y. Wen, and D. Wu, "Energy-efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," *Proceedings of IEEE INFOCOM 2013*, Mini-Conference, Turin, Italy, April 14 – 19, 2013.

61. L. Yang, D. Mukherjee, D. Wu, "Video Description Length Guided Constant Quality Video Coding with Bitrate Constraint," Proceedings of IEEE International Conference on Multimedia & Expo (ICME), Workshop on (Re)Creating Lively Cities through Ambient Technologies: Arts, Culture, and Gastronomic Experiences, Melbourne, Australia, July 9–13, 2012.
62. C. Paulson, E. Zelnio, L. Gorham, D. Wu, "Using Glint to Perform Geometric Signature Prediction and Pose Estimation," *Proceedings of SPIE Defense, Security, and Sensing 2012*, Baltimore, Maryland, USA, April 23–27, 2012.
63. Z. Yuan, T. Lu, D. Wu, Y. Huang, H. Yu, "Video Summarization with Semantic Concept Preservation," Proceedings of the International Conference on Mobile and Ubiquitous Multimedia (MUM), Beijing, China, December 7 – 9, 2011.
64. Y. Guo, Z. Ding, Y. Fang, D. Wu, "Cutting Down Electricity Cost in Internet Data Centers by Using Energy Storage," Proceedings of IEEE Global Telecommunications Conference (Globecom 2011), Houston, TX, USA, December 5 – 9, 2011. (**IEEE GLOBECOM 2011 Best Paper Award**)
65. Q. Chen, Y. Zheng, P. Yin, X. Lu, J. Sole, Q. Xu, E. Francois, D. Wu, "Classified Quadtree-based Adaptive Loop Filter," Proceedings of IEEE International Conference on Multimedia & Expo (ICME), Workshop on Acoustics and Video Coding and Communication (AVCC), Barcelona, Spain, July 15, 2011.
66. Q. Wang, P. Fan, D. Wu, K. Ben Letaief, "End-to-End Delay Constrained Routing and Scheduling for Wireless Sensor Networks," Proceedings of IEEE International Conference on Communications (ICC 2011), Kyoto, Japan, June 5–9, 2011.
67. C. Paulson, E. Zelnio, L. Gorham, D. Wu, "Feature phenomenology and feature extraction of civilian vehicles from SAR images," *Proceedings of SPIE Defense & Security Symposium 2011*, Orlando, FL, USA, April 25–29, 2011.
68. Z. Chen, S. Doken, D. Wu, "An Improved Parametric Bit Rate Model for Frame-level Rate Control in Video Coding," Proceedings of IEEE Data Compression Conference (DCC), Snowbird, UT, USA, March 29–31, 2011.
69. T. Lu, X. Lu, Q. Xu, Y. Zheng, J. Sole, P. Yin, D. Wu, "A Video Coding Analyzer for Next-Generation Compression Standards," Proceedings of IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 9–12, 2011.
70. Z. Ding, D. Wu, "Sliding Mode Based Joint Congestion Control and Scheduling in Multi-hop Ad Hoc Networks with Multi-class Services," Proceedings of IEEE Global Telecommunications Conference (Globecom 2010), Miami, FL, USA, December 6 – 10, 2010.
71. Z. Chen, P. Fan, D. Wu, K. Ben Letaief, "Secrecy Capacity with Leakage Constraints in Fading Channels," Proceedings of IEEE Global Telecommunications Conference (Globecom 2010), Miami, FL, USA, December 6 – 10, 2010.
72. X. Dong, D. Wu, Y. Liu, and C. Zhou, "Statistical QoS provisioning in mobile ad hoc networks," Proceedings of the 6th International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Hangzhou, China, December 20–22, 2010.
73. T. Lu, Z. Yuan, Y. Huang, D. Wu, H. Yu, "Video Retargeting with Nonlinear Spatial-Temporal Saliency Fusion," *Proceedings of IEEE International Conference on Image Processing 2010*, Hong Kong, September 26–29, 2010.

74. Z. Yuan, T. Lu, Y. Huang, D. Wu, H. Yu, "Video Retargeting: a Visual-Friendly Dynamic Programming Approach," *Proceedings of IEEE International Conference on Image Processing 2010*, Hong Kong, September 26–29, 2010.
75. J. Xu, D. Wu, "Ripplet-II Transform for Feature Extraction," *Proceedings of SPIE Visual Communications and Image Processing (VCIP 2010)*, Huang Shan, An Hui, China, July 11–14, 2010.
76. C. Paulson, S. Ezekiel, D. Wu, "Wavelet-based image registration," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
77. T. Lu, Z. Chen, D. Wu, H. Yu, "Region-of-interest-based bit-allocation scheme for H.264/AVC," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
78. W. Ye, D. Wu, A. Nucci, "Experimental study on GMM-based speaker recognition," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
79. B. Han, J. Xu, D. Wu, J. Tian, "Compressive sensing in block-based image/video coding," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
80. B. Han, D. Wu, H. Zhang, "Block-based method for real-time compound video compression," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
81. B. Han, C. Paulson, J. Wang, D. Wu, "Depth-based image registration," *Proceedings of SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
82. J. Xu, Y. Zheng, P. Yin, J. Sole, C. Gomila, D. Wu, "Sparsity-based DeArtifacting Filtering in Video Compression," *Proceedings of IEEE International Conference on Image Processing 2009*, Cairo, Egypt, November 7–11, 2009.
83. Q. Li, P. Fan, D. Wu, "Energy Efficient Routing in Ad Hoc Networks with Nakagami-m Fading Channels," *Proceedings of IEEE International Conference on Communications (ICC 2009)*, Dresden, Germany, June 14–18, 2009.
84. Z. Chen, D. Wu, "Study of video distortion for real-time video transmission over wireless channels," *Proceedings of SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
85. J. Fan, D. Wu, A. Nucci, R. Keralapura, and L. Gao, "Identifying hidden voice and video streams," *Proceedings of SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
86. Y. Jo, D. Wu, "An enhanced transform domain communication system (ETDCS) with narrow-band interference (NBI) avoidance capability," *Proceedings of SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
87. B. Han, C. Paulson, T. Lu, D. Wu, J. Li, "Tracking of multiple objects under partial occlusion," *Proceedings of SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
88. X. Dong, X. Li, D. Wu, "Analysis of Packet Error Probability in Delay Constrained Communication over Fading Channels," *Proceedings of IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.
89. X. Li, F. Cao, D. Wu, "QoS-Driven Power Allocation for Multi-channel Communication under Delayed Channel Side Information," *Proceedings of IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.

90. Y. Jo, D. Wu, "Blind Synchronization, Estimation of Data Symbol, Spread Sequence, and Generator Polynomial in Direct Sequence Spread Spectrum Systems," *Proceedings of IEEE Milcom 2008*, San Diego, CA, USA, November 17–19, 2008.
91. Y. Jo, D. Wu, "An Enhanced V-BLAST with Non-Stationary Interference Avoidance Capability," *Proceedings of IEEE Milcom 2008*, San Diego, CA, USA, November 17–19, 2008.
92. X. Li, X. Dong, D. Wu, "Hierarchical Queue-Length-Aware Power Control for Delay-Sensitive Applications over Wireless Networks," *Proceedings of IEEE Milcom 2008*, San Diego, CA, USA, November 17–19, 2008.
93. B. Han, F. Wu, D. Wu, "Image representation by compressed sensing," *Proceedings of IEEE International Conference on Image Processing 2008*, San Diego, CA, USA, October 12–15, 2008.
94. Z. Cao, J. Kong, M. Gerla, D. Wu, "A Randomized Complexity-theoretic Model of Bio-inspired Mobile Epidemics via Close Contact," *Proceedings of Information Theory and Statistical Learning 2008*, Las Vegas, Nevada, USA, July 14–16, 2008.
95. Y. Sun, D. Wu, "A RELIEF based feature extraction algorithm," *Proceedings of SIAM International Conference on Data Mining 2008*, Atlanta, GA, USA, April 24–26, 2008.
96. J. Xu, D. Wu, "Ripplet transform for feature extraction," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
97. W. Roberts, L. Watkins, D. Wu, J. Li, "Vehicle tracking for urban surveillance," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
98. W. Ye, C. Paulson, D. Wu, J. Li, "A rotation-invariant transform for target detection in SAR images," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
99. W. Ye, C. Paulson, D. Wu, J. Li, "A target detection scheme for VHF SAR ground surveillance," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
100. J. Kong, X. Hong, D. Wu, M. Gerla, "Complexity-theoretic Modeling of Biological Cyanide Poisoning as Security Attack in Self-organizing Networks," *Proceedings of IEEE 7th International Symposium on Bioinformatics and Bioengineering (IEEE BIBE 2007)*, Boston, Massachusetts, USA, October 14–17, 2007.
101. B. Han, W. Roberts, D. Wu, J. Li, "Motion-Segmentation-Based Change Detection," *Proceedings of SPIE Defense & Security Symposium 2007*, Orlando, FL, USA, April 9–13, 2007.
102. B. Han, W. Roberts, D. Wu, J. Li, "Robust Feature-based Object Tracking," *Proceedings of SPIE Defense & Security Symposium 2007*, Orlando, FL, USA, April 9–13, 2007.
103. D. Wu and Z. He, "Cross-Layer Optimization for Wireless Video Communication," *Proceedings of SPIE Visual Communications and Image Processing (VCIP)*, San Jose, CA, USA, Jan. 28–Feb. 1, 2007.
104. J. Fan, D. Wu, K. Lu, and A. Nucci, "Design of Bloom Filter Array for Network Anomaly Detection," *Proceedings of IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006.

105. X. Li, and D. Wu, "Power Control and Dynamic Channel Allocation for Delay Sensitive Applications in Wireless Networks," Proceedings of IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
106. C. Tang, and D. Wu, "A Countermeasure to Defend Against Relay Attacks in Wireless Networks," Proceedings of IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
107. C. Tang, and D. Wu, "An Efficient Proactive Share Refreshing Scheme for Secret Sharing in Distributed Systems," Proceedings of IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
108. T. Jiang, K. Lu, D. Wu, and G. Zhu, "On The Uniform Companding Transform for Reducing PAPR of MCM Signals," Proceedings of IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
109. K. Wang, F. Yang, Q. Zhang, D. Wu, and Y. Xu, "Energy Efficient Cooperative Rate Adaptation in IEEE 802.11-based Multi-hop Networks," Proceedings of The Third International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2006), Waterloo, Ontario, Canada, August 7–9, 2006. (**QShine 2006 Best Paper Award**)
110. K. Lu, J. Wang, D. Wu, and Y. Fang, "Performance of A Burst-Frame-Based CSMA/CA Protocol for High Data Rate Ultra-Wideband Networks: Analysis and Enhancement," Proceedings of The Third International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2006), Waterloo, Ontario, Canada, August 7–9, 2006.
111. C. Li, H. Che, S. Li, and D. Wu, "A New Wireless Channel Fade Duration Model for Exploiting Multi-User Diversity Gain and Its Applications," Proceedings of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM 2006), Buffalo, NY, USA, June 26–29, 2006.
112. W. Kumwilaisak, C.-C. J. Kuo, and D. Wu, "Optimal Variable Length Markov Chain (VLMC) Modeling of Fading Channels," Proceedings of IEEE International Conference on Communications (ICC 2006), Istanbul, Turkey, June 11–15, 2006.
113. C. Peng, F. Yang, Q. Zhang, D. Wu, M. Zhao, Y. Yao, "Impact of Power and Rate Selection on the Throughput of Ad Hoc Networks," Proceedings of IEEE International Conference on Communications (ICC 2006), Istanbul, Turkey, June 11–15, 2006.
114. C. Hu, B. Liu, Z. Liu, S. Gao, D. Wu, "Deployment of Distributed Passive Measurement Monitors," Proceedings of IEEE International Conference on Communications (ICC 2006), Istanbul, Turkey, June 11–15, 2006.
115. J. Wang, Y. Fang, and D. Wu, "A Power-Saving Multi-radio Multi-channel MAC Protocol for Wireless Local Area Networks," *Proceedings of IEEE INFOCOM 2006*, Barcelona, Spain, April 24 – 27, 2006.
116. Z. He, M. Desphande, and D. Wu, "Optimal video sensing strategy and performance optimization for mobile wireless video sensors," "Cross-Layer Optimization for Wireless Video Communication," Proceedings of SPIE Visual Communications and Image Processing (VCIP), San Jose, CA, USA, January 17, 2006.

117. J. Wang, Y. Fang, and D. Wu, "Uplink Medium Access Control for WLANs with Multi-beam Access Point," *Proceedings of IEEE Globecom 2005*, St. Louis, MO, USA, November 28 – December 2, 2005.
118. A. Avudainayagam, J. M. Shea, and D. Wu, "A Hyper-Trellis based Turbo Decoder for Wyner-Ziv Video Coding," *Proceedings of IEEE Globecom 2005*, St. Louis, MO, USA, November 28 – December 2, 2005.
119. Y. Zheng, K. Lu, D. Wu, and Y. Fang, "Performance Analysis of IEEE 802.11 DCF in Binary Symmetric Channels," *Proceedings of IEEE Globecom 2005*, St. Louis, MO, USA, November 28 – December 2, 2005.
120. Z. He and D. Wu, "Performance Analysis of Wireless Video Sensors in Video Surveillance," *Proceedings of IEEE Globecom 2005*, St. Louis, MO, USA, November 28 – December 2, 2005.
121. J. Kong, D. Wu, X. Hong, and M. Gerla, "Mobile Traffic Sensor Network versus Motion-MIX: Tracing and Protecting Mobile Wireless Nodes," *Proceedings of ACM Workshop on Security of Ad Hoc and Sensor Networks (SASN 2005)*, Alexandria, VA, USA, Nov. 7, 2005.
122. H. Yin, C. Lin, F. Qiu, X. Liu, and D. Wu, "TrustStream: A Novel Secure and Scalable Media Streaming Architecture," *Proceedings of ACM Multimedia 2005*, Singapore, Nov. 6–12, 2005.
123. J. Kong, J.-H. Cui, D. Wu, and M. Gerla, "Building Under-Water Ad-hoc Networks and Sensor Networks for Large Scale Real-time Aquatic Applications," *Proceedings of IEEE Milcom 2005*, Atlantic City, NJ, USA, October 17–21, 2005.
124. J. Wang, Y. Fang, and D. Wu, "SYN-DMAC: A Directional MAC Protocol for Ad Hoc Networks with Synchronization," *Proceedings of IEEE Milcom 2005*, Atlantic City, NJ, USA, October 17–21, 2005.
125. X. Du and D. Wu, "Efficient Multi-Class Routing Protocol for Heterogeneous Mobile Ad Hoc Networks," *Proceedings of IEEE Second International Conference on Broadband Networks (BroadNets 2005)*, Boston, USA, October 3–7, 2005.
126. Y. Sun, S. Todorovic, J. Li, and D. Wu, "A Robust Linear Programming Based Boosting Algorithm," *Proceedings of IEEE Machine Learning for Signal Processing Workshop (MLSP 2005)*, Mystic, Connecticut, USA, September 28–30, 2005.
127. J. Zhao, D. Erdogmus, C. Huang, D. Wu, and Y. Fang, "An Adaptive Motion Estimation Scheme Using Maximum Mutual Information Criteria," *Proceedings of 2005 European Signal Processing Conference (EUSIPCO-2005)*, Antalya, Turkey, September 4–8, 2005.
128. D. Wu and R. Negi, "Effective Capacity Channel Model for Frequency-selective Fading Channels," *Proceedings of IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005)*, Orlando, Florida, USA, August 22–24, 2005.
129. K. Lu, J. Fan, J. Greco, D. Wu, S. Todorovic, and A. Nucci, "A Novel Anti-DDoS System for Large-Scale Internet," *Proceedings of ACM SIGCOMM 2005, Work-in-Progress Session*, Philadelphia, PA, USA, August 22–26, 2005.
130. Y. Sun, S. Todorovic, J. Li, and D. Wu, "Unifying the Error-Correcting and Output-Code AdaBoost within the Margin Framework," *Proceedings of International Conference on Machine Learning (ICML 2005)*, Bonn, Germany, August 7–11, 2005.

131. W. Li, B. Liu, L. Shi, Y. Xu, and D. Wu, "Preemptive Packet-Mode Scheduling to Improve TCP Performance," Proceedings of International Workshop on Quality of Service (IWQoS 2005), Passau, Germany, June 21–23, 2005.
132. Z. He, and D. Wu, "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
133. Y. Zhou, D. Wu, and S. M. Nettles, "Authentication, Authorization, and Accounting for Real-Time Secondary Market Services," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
134. K. Lu, D. Wu, Y. Fang, and R. Qiu, "Performance Analysis of A Burst-Frame-Based MAC Protocol for Ultra-Wideband Ad Hoc Networks," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
135. K. Lu, D. Wu, Y. Fang, and R. Qiu, "On Medium Access Control for High Data Rate Ultra-Wideband Ad Hoc Networks," Proceedings of IEEE WCNC 2005, New Orleans, LA, USA, March 13–17, 2005.
136. Z. He, D. Wu, "Energy allocation and operational lifetime control for wireless video sensors," Proceedings of SPIE Electronic Imaging 2005, San Jose, CA, USA, Jan. 16–20, 2005.
137. G. Ramachandran, V. Krishnan, D. Wu, Z. He, and T. D. Goswami, "A Model-based Adaptive Motion Estimation Scheme Using Renyi's Entropy for Wireless Video," Proceedings of IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13–14, 2004.
138. Z. He, and D. Wu, "Look-Ahead Processing and Joint Rate Control for Multiple JVT Video Encoders," Proceedings of IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13–14, 2004.
139. H. Zhai, J. Wang, Y. Fang, and D. Wu, "A Dual-channel MAC Protocol for Mobile Ad Hoc Networks," *Proceedings of IEEE Workshop on Wireless Ad Hoc and Sensor Networks*, in conjunction with IEEE Globecom 2004, Dallas, Texas, USA, November 29, 2004.
140. D. Wu and R. Negi, "Effective Capacity-Based Quality of Service Measures for Wireless Networks," *Proceedings of IEEE/ACM BroadNets 2004, Broadband Wireless Networking Symposium*, San Jose, CA, USA, October 25–29, 2004.
141. Y. Zhou, D. Wu, and S. M. Nettles, "Analyzing and Preventing MAC-Layer Denial of Service Attacks for Stock 802.11 Systems," *Proceedings of IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004)*, San Jose, CA, USA, October 25, 2004.
142. Q. He, D. Wu, and P. Khosla, "A Mechanism for Personal Control over Mobile Location Privacy," *Proceedings of IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004)*, San Jose, CA, USA, October 25, 2004.
143. Q. He, D. Wu, and P. Khosla, "SORI: A Secure and Objective Reputation-based Incentive Scheme for Ad-hoc Networks," *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC 2004)*, Atlanta, GA, USA, March 21–25, 2004.
144. D. Wu and R. Negi, "Downlink Scheduling in a Cellular Network for Quality of Service Assurance," *Proceedings of IEEE Vehicular Technology Conference (VTC) Fall 2003*, Orlando, Florida, USA, October 4–9, 2003.

145. D. Wu and R. Negi, "Utilizing Multiuser Diversity for Efficient Support of Quality of Service over a Fading Channel," *Proceedings of IEEE ICC'03*, Anchorage, Alaska, USA, May 11–15, 2003.
146. D. Wu and R. Negi, "A Wireless Channel Model for Support of Quality of Service," *Proceedings of IEEE Global Communications Conference (GLOBECOM'01)*, San Antonio, Texas, USA, Nov. 25–29, 2001.
147. T. Hou, D. Wu, J. Yao, T. Chujo, "A Core-Stateless Buffer Management Mechanism for Differentiated Services Internet," *Proceedings of IEEE Conference on Local Computer Networks (LCN'2000)*, Tampa, Florida, USA, Nov. 9–10, 2000.
148. D. Wu, T. Hou, Y.-Q. Zhang, "Scalable Video Transport over Wireless IP Networks," *Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC'2000)*, London, UK, Sept. 18–21, 2000. (Invited paper)
149. D. Wu, T. Hou, Y.-Q. Zhang, H. J. Chao, "Optimal Mode Selection in Internet Video Communication: An End-to-End Approach," *Proceedings of IEEE ICC'2000*, New Orleans, Louisiana, USA, June 18–22, 2000.
150. D. Wu, T. Hou, Z.-L. Zhang, H. J. Chao, T. Hamada, "A Per-flow Based Node Architecture for Integrated Services Packet Networks," *Proceedings of IEEE ICC'2000*, New Orleans, Louisiana, USA, June 18–22, 2000.
151. D. Wu, T. Hou, Y.-Q. Zhang, W. Zhu, H. J. Chao, "Adaptive QoS Control for MPEG-4 Video Communication over Wireless Channels," *Proceedings of IEEE Workshop & Exhibition on MPEG-4 (IS-CAS'2000)*, Geneva, Switzerland, May 28–31, 2000.
152. D. Wu, T. Hou, J. Yao, H. J. Chao, "Transmission of Real-time Video over the Internet: a Big Picture," *Proceedings of IEEE NetWorld+Interop*, Las Vegas, Nevada, USA, May 10–11, 2000.
153. T. Hou, D. Wu, W. Zhu, H.-J. Lee, T. Chiang, Y.-Q. Zhang, "An End-to-End Architecture for MPEG-4 Video Streaming over the Internet," *Proceedings of IEEE International Conference on Image Processing (ICIP'99)*, Kobe, Japan, Oct. 25–28, 1999.
154. T. Hou, D. Wu, J. Yao, T. Hamada, T. Taniguchi, "A Differentiated Services Architecture for Multimedia Traffic in IP Networks," *Proceedings of International Conference on Computer Communication (ICCC'99)*, vol. 1, pp. 114–123, Tokyo, Japan, Sept. 14–16, 1999.
155. D. Wu, T. Hou, Z.-L. Zhang, H. J. Chao, T. Hamada, T. Taniguchi, "On Implementation Architecture for Achieving QoS Provisioning in Integrated Services Networks," *Proceedings of IEEE International Conference on Communications (ICC'99)*, Vancouver, Canada, June 6–10, 1999.
156. D. Wu, T. Hou, W. Zhu, Y.-Q. Zhang, H. J. Chao, "MPEG-4 Compressed Video over the Internet," *Proceedings of IEEE International Symposium on Circuits and Systems (ISCAS'99)*, Orlando, USA, May 30–June 2, 1999.
157. D. Wu and H. J. Chao, "Efficient Bandwidth Allocation and Call Admission Control for VBR Service Using UPC Parameters," *Proceedings of IEEE INFOCOM'99*, pp. 1044–1052, New York, USA, Mar. 21–25, 1999.
158. D. Wu and H. J. Chao, "Buffer Management and Scheduling for TCP/IP over ATM-GFR," *Proceedings of IEEE Global Communications Conference (GLOBECOM'98)*, Sydney, Australia, Nov. 8–12, 1998.

159. D. Wu and H. J. Chao, "TCP/IP over ATM-GFR," *Proceedings of IEEE ATM Workshop (ATM'98)*, pp. 360–367, Fairfax, Virginia, USA, May 26–29, 1998.

Number of Times being Cited for Some of My Publications

From Google Scholar, my H-index is 55 and my total number of citations is 18,437. The following was obtained by Google Scholar (<http://scholar.google.com> and typing "Dapeng Wu") on March 20, 2021.

- D. Wu and R. Negi, "Effective Capacity: A Wireless Link Model for Support of Quality of Service," *IEEE Transactions on Wireless Communications*, vol. 2, no. 4, pp. 630–643, July 2003. **Cited by 1389 publications.**
- D. Wu, T. Hou, W. Zhu, Y.-Q. Zhang, J. Peha, "Streaming Video over the Internet: Approaches and Directions," *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Streaming Video, vol. 11, no. 3, pp. 282–300, March 2001. **Cited by 1176 publications.**
- D. Wu, T. Hou, Y.-Q. Zhang, "Transporting Real-time Video over the Internet: Challenges and Approaches," *Proceedings of the IEEE*, vol. 88, no. 12, pp. 1855–1875, Dec. 2000. **Cited by 592 publications.**
- Q. He, D. Wu, and P. Khosla, "SORI: A Secure and Objective Reputation-based Incentive Scheme for Ad-hoc Networks," *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC 2004)*, Atlanta, GA, USA, March 21–25, 2004. **Cited by 542 publications.**
- Z. He, Y. Liang, L. Chen, I. Ahmad, and D. Wu, "Power-Rate-Distortion Analysis for Wireless Video Communication under Energy Constraints," *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Integrated Multimedia Platforms, vol. 15, no. 5, pp. 645–658, May 2005. **Cited by 564 publications.**
- D. Wu, T. Hou, Y.-Q. Zhang, "Scalable Video Coding and Transport over Broadband Wireless Networks," *Proceedings of the IEEE*, vol. 89, no. 1, pp. 6–20, Jan. 2001. **Cited by 346 publications.**
- D. Wu, T. Hou, W. Zhu, H.-J. Lee, T. Chiang, Y.-Q. Zhang, H. J. Chao, "On End-to-End Architecture for Transporting MPEG-4 Video over the Internet," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 10, no. 6, pp. 923–941, Sept. 2000. **Cited by 307 publications.**

Patents

- "Joint fountain coding and network coding for loss-tolerant information spreading," U.S. Patent No. 10,880,202 B2. Issue Date: December 29, 2020.
- "JOINT FOUNTAIN CODE AND NETWORK CODING FOR MULTIPLE-SOURCE-MULTIPLE-DESTINATION WIRELESS COMMUNICATION," U.S. Patent No. 10,623,082. Issue Date: April 14, 2020.
- "Joint fountain coding and network coding for loss-tolerant information spreading," U.S. Patent No. 10,530,526. Issue Date: January 7, 2020.
- "REGRET BENEFIT RATIO LINK SCHEDULER FOR WIRELESS BACKHAUL WITH DIRECTIONAL ANTENNAS," U.S. Patent No. 10,455,604. Issue Date: October 22, 2019

- “Joint Fountain Coding And Network Coding For Loss-Tolerant Information Spreading,” U.S. Patent No. 10,116,418. Issue Date: October 30, 2018. PCT Filed: August 7, 2015. PCT No.: PCT/US2015/044333
- “DEEP LEARNING FOR CHARACTERIZING UNSEEN CATEGORIES,” filed for US patent, U.S. Provisional Patent Application No. 62478094, March 29, 2017. U.S. Utility Patent Application No. 15939717, March 29, 2018.
- “METHOD FOR NO-REFERENCE IMAGE QUALITY ASSESSMENT,” filed for US patent, U.S. Patent Application No. 62399985, September 26, 2016. Filed for international patent, PCT/US2017/053393, September 26, 2017.
- “METHOD FOR EXPLOITING DIVERSITY WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309823, March 17, 2016. Filed for international patent, PCT/US2017/022772, March 16, 2017.
- “METHOD FOR CONGESTION RELIEF WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309872, March 17, 2016. Filed for international patent, PCT/US2017/022761, March 16, 2017.
- “A SYSTEM FOR LIVE VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309069, March 16, 2016. Filed for international patent, PCT/US2017/022715, March 16, 2017.
- “A SYSTEM FOR VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309023, March 16, 2016. Filed for international patent, PCT/US2017/022719, March 16, 2017.
- “IMPROVED JOINT FOUNTAIN CODING AND NETWORK CODING FOR LOSS-TOLERANT INFORMATION SPREADING,” filed for US patent, U.S. Patent Application No. 62270568, December 21, 2015. Filed for international patent, PCT/US2016/067968, December 21, 2016.
- “Video skimming methods and systems,” U.S. Patent No. 10,153,001. Issue Date: December 11, 2018.
- “Social Networking Reducing Peak Power Consumption in Smart Grid,” filed for US patent, Application No. 14663212, March 19, 2015.
- “Adaptive Quantization Using Piecewise Comanding,” filed for US patent, Application No. 61313482, March 12, 2010.
- “Ripplet-II Transform for Feature Extraction,” filed for US patent, March 2010.
- “Ripplet – A New Transform for Two-Dimensional Signal Processing,” filed for US patent, July 2007.
- “Apparatus for Compression of Moving Pictures in Wavelet Domain,” filed for US patent, Application No. 60930986, May 21, 2007.
- “Medium Access Control in Wireless Local Area Networks with Multi-Beam Access Point,” filed for US patent, Application No. 11131103, May 17, 2005.
- “Coordinated Directional Medium Access Control in a Wireless Network,” filed for US patent, Application No. 11080041, December 16, 2005.

Teaching

- **Courses Taught**

- EEL 6825, *Pattern Recognition and Intelligent Systems*, Department of Electrical & Computer Engineering, University of Florida, Spring 2021.
Instructor overall: N/A (ECE department average: N/A)
Enrollment: 160 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2020.
Instructor overall: 4.51 (ECE department average: 4.49)
Enrollment: 68 (graduates).
- EEL 6825, *Pattern Recognition and Intelligent Systems*, Department of Electrical & Computer Engineering, University of Florida, Spring 2020.
Instructor overall: 4.37 (ECE department average: 4.53)
Enrollment: 160 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2019.
Instructor overall: 4.53 (ECE department average: 4.32)
Enrollment: 41 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2019.
Instructor overall: 4.71/5.0 (ECE department average: 4.62)
Enrollment: 136 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2018.
Instructor overall: 4.57/5.0 (ECE department average: 4.38)
Enrollment: 29 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.
Instructor overall: 4.56/5.0 (ECE department average: 4.46)
Enrollment: 70 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.
Instructor overall: 4.38/5.0 (ECE department average: 4.46)
Enrollment: 262 (graduates).
- CNT 6805, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2016.
Instructor overall: 4.64/5.0 (ECE department average: 4.32)
Enrollment: 54 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2016.
Instructor overall: 4.48/5.0 (ECE department average: 4.32)
Enrollment: 153 (graduates).

- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2016.
Instructor overall: 4.68/5.0 (ECE department average: 4.46)
Enrollment: 69 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2016.
Instructor overall: 4.28/5.0 (ECE department average: 4.46)
Enrollment: 189 (graduates).
- CNT 6805, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2015.
Instructor overall: 4.57/5.0 (ECE department average: 4.31)
Enrollment: 20 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2015.
Instructor overall: 4.56/5.0 (ECE department average: 4.31)
Enrollment: 99 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2015.
Instructor overall: 4.51/5.0 (ECE department average: 4.42)
Enrollment: 51 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2015.
Instructor overall: 4.35/5.0 (ECE department average: 4.42)
Enrollment: 93 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2014.
Instructor overall: 4.36/5.0 (ECE department average: 4.17)
Enrollment: 22 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2014.
Instructor overall: 3.86/5.0 (ECE department average: 4.17)
Enrollment: 64 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2014.
Instructor overall: 4.21/5.0 (ECE department average: 4.25)
Enrollment: 57 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2014.
Instructor overall: 4.37/5.0 (ECE department average: 4.25)
Enrollment: 92 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2013.
Instructor overall: 4.44/5.0 (ECE department average: 4.27)
Enrollment: 30 (graduates).

- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2013.
Instructor overall: 4.54/5.0 (ECE department average: 4.27)
Enrollment: 102 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2013.
Instructor overall: 4.41/5.0 (ECE department average: 4.30)
Enrollment: 108 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2013.
Instructor overall: 4.32/5.0 (ECE department average: 4.30)
Enrollment: 91 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2012.
Instructor overall: 4.41/5.0 (ECE department average: 4.25)
Enrollment: 47 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2012.
Instructor overall: 4.45/5.0 (ECE department average: 4.25)
Enrollment: 118 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2012.
Instructor overall: 4.42/5.0 (ECE department average: 4.26)
Enrollment: 113 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2011.
Instructor overall: 4.23/5.0 (ECE department average: 4.34)
Enrollment: 116 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2010.
Instructor overall: 4.68/5.0 (ECE department average: 4.32)
Instructor evaluation: 4.71/5.0 (ECE department average: 4.28)
Enrollment: 70 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2010.
Instructor overall: 4.83/5.0 (ECE department average: 4.37)
Instructor evaluation: 4.83/5.0 (ECE department average: 4.28)
Enrollment: 113 (graduates).
- EEL 4514, *Communication Systems and Components*, Department of Electrical & Computer Engineering, University of Florida, Fall 2009.
Instructor overall: 4.82/5.0 (ECE department average: 4.24)
Instructor evaluation: 4.65/5.0 (ECE department average: 4.20)
Enrollment: 22 (undergraduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2009.

- Instructor overall: 4.69/5.0 (ECE department average: 4.30)
Instructor evaluation: 4.63/5.0 (ECE department average: 4.25)
Enrollment: 108 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2008.
Instructor overall: 4.56/5.0 (ECE department average: 4.31)
Instructor evaluation: 4.59/5.0 (ECE department average: 4.25)
Enrollment: 131 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2008.
Instructor overall for Section 0522: 4.57/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 0522: 4.52/5.0 (ECE department average: 4.21)
Instructor overall for Section 2587: 5.0/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 2587: 4.67/5.0 (ECE department average: 4.21)
Instructor overall for Section 8149: 5.0/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 8149: 4.94/5.0 (ECE department average: 4.21)
Enrollment: 56 (graduates).
 - EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2007.
Instructor overall: 4.48/5.0 (ECE department average: 4.27)
Instructor evaluation: 4.61/5.0 (ECE department average: 4.22)
Enrollment: 71 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2007.
Instructor overall: 4.95/5.0 (ECE department average: 4.27)
Instructor evaluation: 4.89/5.0 (ECE department average: 4.22)
Enrollment: 50 (graduates).
 - EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2006.
Instructor overall: 4.52/5.0 (ECE department average: 4.13)
Instructor evaluation: 4.53/5.0 (ECE department average: 4.10)
Enrollment: 71 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2006.
Instructor overall: 4.75/5.0 (ECE department average: 4.25)
Instructor evaluation: 4.78/5.0 (ECE department average: 4.19)
Enrollment: 18 (graduates).
 - EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2005.
Instructor overall: 4.56/5.0 (ECE department average: 4.19)
Instructor evaluation: 4.49/5.0 (ECE department average: 4.14)
Enrollment: 58 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2005.
Instructor overall: 4.83/5.0 (ECE department average: 4.21)

Instructor evaluation: 4.70/5.0 (ECE department average: 4.16)
Enrollment: 32 (graduates).

- EEL 6935, *Multimedia Communications and Networking*, Department of Electrical & Computer Engineering, University of Florida, Fall 2004.
Instructor overall: 4.30/5.0 (ECE department average: 4.14)
Instructor evaluation: 4.44/5.0 (ECE department average: 4.09)
Enrollment: 20 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2004.
Instructor overall: 4.89/5.0 (ECE department average: 4.20)
Instructor evaluation: 4.85/5.0 (ECE department average: 4.13)
Enrollment: 23 (graduates).
- EEL 6935, *Special Topics in Multimedia Communications and Networking*, Department of Electrical & Computer Engineering, University of Florida, Fall 2003.
Instructor overall: 4.88/5.0 (ECE department average: 4.21)
Instructor evaluation: 4.61/5.0 (ECE department average: 4.16)
Enrollment: 9 (graduates).

- **Teaching Assistance**

- 18-552, *Wireless Transmission Technologies*, Department of Electrical & Computer Engineering, Carnegie Mellon University, Spring 2001.
Enrollment: 24 (10 undergraduates, 14 graduates).
- 18-345, *Introduction to Telecommunications Networks*, Department of Electrical & Computer Engineering, Carnegie Mellon University, Fall 2000.
Enrollment: 102 (undergraduates).
- 18-845, *Internet Services*, Department of Electrical & Computer Engineering, Carnegie Mellon University, Spring 2000.
Enrollment: 16 (graduates).

Student Advising and Visiting Scholars

- Ph.D. graduated (33 advisees)

- Qile Zhu, Department of Computer & Information Science & Engineering, University of Florida
June 2020
Deep Representation Learning in Natural Language Processing.
- Xiaoyong Yuan, Department of Computer & Information Science & Engineering, University of Florida
June 2020
Dissertation title: SECURITY AND PRIVACY ISSUES IN DEEP LEARNING
- Rajendra Bhat, Department of Electrical & Computer Engineering, University of Florida
December 2019
Dissertation title: Deep Semi-Temporal Learning and Application in Genomics and Precision Medicine

- Chiranjib Sur, Department of Computer & Information Science & Engineering, University of Florida *July 2019*
Dissertation title: REPRESENTATIONS FOR VISION LANGUAGE INTELLIGENCE USING TENSOR PRODUCT REPRESENTATION
- Qi Cai, Department of Electrical & Computer Engineering, University of Florida *July 2019*
Dissertation title: VIDEO CODING STRATEGIES FOR MACHINE COMPREHENSION
- Manu Chandran, Department of Electrical & Computer Engineering, University of Florida *November 2018*
Dissertation title: Application Of Machine Learning Techniques in Point Cloud Generation and Point Cloud Object Classification
- Jiade Li, Department of Electrical & Computer Engineering, University of Florida *November 2017*
Dissertation title: A Framework for Intelligent Network and Security
- Yun Zhu, Department of Electrical & Computer Engineering, University of Florida *August 2017*
Dissertation title: Enabling Technologies for Next-Generation Wireless Networks
- Qiuyuan Huang, Department of Electrical & Computer Engineering, University of Florida *August 2017*
Dissertation title: Learning-based Cooperative Networking
- Kairan Sun, Department of Electrical & Computer Engineering, University of Florida *November 2016*
Dissertation title: Coding Strategies for Multimedia Communications over Networks
- Xin Li, Department of Electrical & Computer Engineering, University of Florida *July 2016*
Dissertation title: Novel Control Approaches and Simulators for Complex Networks
- Dr. Pratik Prabhanjan Brahma, Department of Electrical & Computer Engineering, University of Florida *July 2016*
Dissertation title: Reliable Subspace Representation for Better Learning and Understanding Of Data
- Dr. Ruigang Fang, Department of Electrical & Computer Engineering, University of Florida *July 2015*
Dissertation title: Image Quality Assessment.
- Dr. Shijie Li, Department of Electrical & Computer Engineering, University of Florida *July 2014*
Dissertation title: Machine Learning Techniques and Their Applications to Computer Vision.
- Dr. Baohua Sun, Department of Electrical & Computer Engineering, University of Florida *Dec. 2013*
Dissertation title: Game Theoretical Approach for Clustering and Its Application in Big Data Analytics.
- Dr. Yuejia He, Department of Electrical & Computer Engineering, University of Florida *July 2013*
Dissertation title: Inference of Network Topology and Dynamics: A Compressive Sensing Approach.
- Dr. Zheng Yuan, Department of Electrical & Computer Engineering, University of Florida *April 2013*
Dissertation title: Advanced Video Processing Techniques in Video Transmission Systems.
- Dr. Christopher Paulson, Department of Electrical & Computer Engineering, University of Florida *April 2013*

- Dissertation title: Utilizing Glint Phenomenology to Perform Classification of Civilian Vehicle Using Synthetic Aperture Radar.
- Dr. Zongrui Ding, Department of Electrical & Computer Engineering, University of Florida
July 2012
Dissertation title: Stochastic Optimization and Its Application to Communication Networks and the Smart Grid.
 - Dr. Yakun Hu, Department of Electrical & Computer Engineering, University of Florida
April 2012
Dissertation title: Advanced Signal Processing Techniques for Speaker Recognition and Communications.
 - Dr. Qian Chen, Department of Electrical & Computer Engineering, University of Florida
November 2011
Dissertation title: Image and Video Processing for Denoising, Coding and Content Protection.
 - Dr. Lei Yang, Department of Electrical & Computer Engineering, University of Florida
May 2011
Dissertation title: Image and Video Compression and Copyright Protection.
 - Dr. Taoran Lu, Department of Electrical & Computer Engineering, University of Florida
November 2010
Dissertation title: Content-Aware Approaches for Digital Video Adaptation, Summarization and Compression.
 - Dr. Zhifeng Chen, Department of Electrical & Computer Engineering, University of Florida
November 2010
Dissertation title: Video Distortion Analysis and System Design for Wireless Video Communication.
 - Dr. Bing Han, Department of Electrical & Computer Engineering, University of Florida
June 2010
Dissertation title: Advanced Techniques for Digital Image Compression and Analysis.
 - Dr. Jun Xu, Department of Electrical & Computer Engineering, University of Florida
May 2010
Dissertation title: Sparsity Based Image and Video Processing.
 - Dr. Xihua Dong, Department of Electrical & Computer Engineering, University of Florida
May 2010
Dissertation title: Some Challenging Problems in Wireless Communications.
 - Dr. Youngho Jo, Department of Electrical & Computer Engineering, University of Florida
Nov. 2009
Dissertation title: Physical Layer Techniques for Wireless Communication Security.
 - Dr. Xiaochen Li, Department of Electrical & Computer Engineering, University of Florida
April 2009
Dissertation title: Power Control and Resource Allocation for Delay-Constrained Communications.
 - Dr. Jiayan Fan, Department of Electrical & Computer Engineering, University of Florida
Sept. 2007
Dissertation title: Network Centric Traffic Analysis.
 - Dr. Jianfeng Wang, Department of Electrical & Computer Engineering, University of Florida
Oct. 2006
Dissertation title: Distributed Scheduling for Harnessing Channel Diversity and Smart Antennas in Wireless Networks.
 - Dr. Jing Zhao, Department of Electrical & Computer Engineering, University of Florida
Dec. 2005
Dissertation title: Information Theoretic Approach for Low Complexity Adaptive Motion Estimation.

- Dr. Sinisa Todorovic, Department of Electrical & Computer Engineering, University of Florida
April 2005
Dissertation title: Irregular-Structure Tree Models for Image Interpretation.
- M.S. graduated
 - Alexander Chebaro, Department of Electrical & Computer Engineering, University of Florida
May 2011
 - Qin Chen, Department of Electrical & Computer Engineering, University of Florida *May 2010*
 - Jiangping Wang, Department of Electrical & Computer Engineering, University of Florida *May 2010*
 - Shuang Liu, Department of Electrical & Computer Engineering, University of Florida *Dec. 2008*

 - Yiran Li, Department of Electrical & Computer Engineering, University of Florida *May 2008*

 - Ashok Ayyamani, Department of Electrical & Computer Engineering, University of Florida
Dec. 2007

 - Stuart G. Nielson, Department of Electrical & Computer Engineering, University of Florida
Aug. 2006

 - Ted Belser, Department of Electrical & Computer Engineering, University of Florida *Dec. 2005*
Thesis title: Image Segmentation and Object Tracking for Micro Air Vehicle.

 - Ashish Jain, Department of Electrical & Computer Engineering, University of Florida *July 2005*
Thesis title: Optical Flow based Obstacle Avoidance for Micro Air Vehicle.

 - Deepika Dwivedi, Department of Electrical & Computer Engineering, University of Florida
May 2005

 - Cancan Huang, Department of Electrical & Computer Engineering, University of Florida *Dec. 2004*

 - Archana Rao, Department of Electrical & Computer Engineering, University of Florida *Dec. 2004*

 - Vignesh Krishnan, Department of Electrical & Computer Engineering, University of Florida
Dec. 2004

 - Manasa Raghavan, Department of Electrical & Computer Engineering, University of Florida
May 2004
- Ph.D. Students (9 advisees)
 - Haotian Jiang, Department of Electrical & Computer Engineering, University of Florida *Aug. 2019*
– *present*

- Tianqi Liu, Department of Electrical & Computer Engineering, University of Florida *Aug. 2019*
– *present*
- Chaoyue Sun, Department of Electrical & Computer Engineering, University of Florida *Aug. 2019*
– *present*
- Yanlin Zhou, Department of Electrical & Computer Engineering, University of Florida *Aug. 2018*
– *present*
- Xiyao Ma, Department of Electrical & Computer Engineering, University of Florida *Aug. 2017*
– *present*
- Heng Qiao, Department of Electrical & Computer Engineering, University of Florida *Aug. 2017*
– *present*
- Tong Shao, Department of Electrical & Computer Engineering, University of Florida *Aug. 2016*
– *present*
- Zheng Feng, Department of Computer & Information Science & Engineering, University of Florida
Aug. 2016 – present

- Yanjun Li, Department of Computer & Information Science & Engineering, University of Florida
Aug. 2016 – present

- Ph.D. Dissertation Committees (completed)

- Yawei Pang, Department of Electrical & Computer Engineering, University of Florida *June 2019*
Dissertation title: SAFETY CENTRIC SERVICES IN SMART CITIES
- David Gray, Department of Electrical & Computer Engineering, University of Florida *April 2018*
Dissertation title: Classifier Training Set Augmentation by Warping Synthetic Data in a Sub-space Manifold.
- David Ojika, Department of Electrical & Computer Engineering, University of Florida *April 2018*
Dissertation title: FLEXIBLE ARCHITECTURE FOR PROGRAMMABLE ACCELERATORS AT DATACENTER-SCALE.
- Xianqi Li, Department of Mathematics, University of Florida *March 2018*
Dissertation title: Fast First-Order Optimization Methods With Applications to Inverse Problems.
- Scott Nivison, Department of Electrical & Computer Engineering, University of Florida *Nov. 2017*
Dissertation title: SPARSE AND DEEP LEARNING BASED NONLINEAR FLIGHT CONTROL DESIGN WITH HYPER-SONIC FLIGHT APPLICATIONS.

- Ryan Burt, Department of Electrical & Computer Engineering, University of Florida *Complete date: August 2017*
Dissertation title: FINDING OBJECTS IN COMPLEX SCENES WITH TOP-DOWN AND BOTTOM-UP INFORMATION.

- Zheng Cao, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2017*

Dissertation title: INFORMATION THEORETIC CLASSIFICATION OF MARINE ANIMAL IMAGERY.

- Ewaldo Eder Carvalho Santana Junior, Department of Electrical & Computer Engineering, University of Florida *Complete date: January 2017*
Dissertation title: A FRAMEWORK FOR PATTERN CONSOLIDATION IN COGNITIVE ARCHITECTURES.

- Kaikai Liu, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2015*
Dissertation title: Towards Smart Life via Mobile Sensing Systems.

- Xiang Mao, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2015*
Dissertation title: Frame Structure Optimization and Co-Service of Real-Time and Non-Realtime Traffic in Cognitive Radio Network.

- Huang Lin, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2014*
Dissertation title: Privacy Preserving Protocol Design in Distributed Computing Environments.

- Savyasachi Singh, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2014*
Dissertation title: Automatic Assessment of Disordered Speech Intelligibility.

- Xiaoyuan Li, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2013*
Dissertation title: Primary User Behavior Estimation and Channel Assignment for Dynamic Spectrum Access in Energy-Constrained Cognitive Radio Sensor Networks

- Pingping Zhu, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2013*
Dissertation title: Kalman Filtering in Reproducing Kernel Hilbert Spaces.

- Bilal Fadlallah, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2013*
Dissertation title: Quantifying Cognitive Processes in the Human Brain Using Measures of Dependence.

- Yuehong Gao, Department of Telematics, Norwegian University of Science and Technology *Complete date: December 2012*
Dissertation title: Performance Analysis of a Cognitive Radio Network Using Network Calculus.

- Chi Zhang, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2011* Dissertation title: Security and Network Performance for Wireless Ad Hoc Networks.

- Qing Yang, Department of Electrical & Computer Engineering, University of Florida *Complete date: May 2011* Dissertation title: The Impact of Signal Temporal Structure on the Auditory Sensitivity and Its Application to Audio Dynamic Range Control.

- Rongsheng Huang, Department of Electrical & Computer Engineering, University of Florida *Complete date: March 2011*

- Dissertation title: How to Efficiently Utilize Multi-hop Wireless Ad hoc Networks - Throughput Improvement and Mobility Support.
- Johannes Karlsson, Department of Applied Physics and Electronics, Umea University, Sweden,
Complete date: December 2010
Dissertation title: Wireless Video Sensor Network and Its Applications in Digital Zoo.
 - Li-Der Chang, Department of Electrical & Computer Engineering, University of Florida *Complete date: November 2010*
Dissertation title: Bare-Earth Extraction and Occluded Vehicle Detection in Forested Terrain from Airborne LiDAR Point Clouds.
 - Xinyan Zha, Department of Computer & Information Science & Engineering, University of Florida
Complete date: June 2010
Dissertation title: Multi-Pattern String Matching Algorithms.
 - Huilin Xu, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2010*
Dissertation title: Transceiver Design and Signal Processing for UWB Signals.
 - Lei Ye, Department of Computing, Hong Kong Polytechnic University *Complete date: April 2010*
Dissertation title: A Family of QoS-Aware Traffic Control Protocols.
 - Wei-jen Hsu, Department of Computer & Information Science & Engineering, University of Florida
Complete date: July 2008
Dissertation title: Analysis of Large-Scale Wireless Network Traces and Its Impact on User Modeling and Protocol Design.
 - Yiwen Wang, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2008*
Dissertation title: Point Processes Monte Carlo Filtering for Brain Machine Interfaces.
 - Yun Zhou, Department of Electrical & Computer Engineering, University of Florida *Complete date: May 2007*
Dissertation title: Security in Wireless Sensor Networks.
 - Wencheng Lu, Department of Computer & Information Science & Engineering, University of Florida
Complete date: April 2007
Dissertation title: Data Structures for Efficient Packet Classification.
 - Seung Chul Han, Department of Computer & Information Science & Engineering, University of Florida
Complete date: Feb. 2007
Dissertation title: Optimal Node Selection and Network Load-Aware Multimedia Streaming Distribution in Peer-to-Peer Networks.
 - Harsha M. Sathyendra, Department of Electrical & Computer Engineering, University of Florida
Complete date: Nov. 2006
Dissertation title: Robust Speaker-Independent Bandwidth Extension for Mobile and Landline Communications.
 - Yong Tang, Department of Computer & Information Science & Engineering, University of Florida
Complete date: April 2006
Dissertation title: Defending Against Internet Worms.
 - Arun Avudainayagam, Department of Electrical & Computer Engineering, University of Florida
Complete date: April 2006

Dissertation title: Collaborative Decoding: Achieving Cooperative Diversity in Wireless Networks Using Soft-Input Soft-Output Decoders.

- Hong Xiong, Department of Electrical & Computer Engineering, University of Florida *Complete date: Dec. 2005*

Dissertation title: Robust Adaptive Methods and Their Applications in Quadrupole Resonance.

- Jun Tian, Department of Computer & Information Science & Engineering, University of Florida *Complete date: Nov. 2005*

Dissertation title: Speed Adaptive Mobile IP over Wireless LAN.

- Roberto Albertani, Department of Mechanical & Aerospace Engineering, University of Florida *Complete date: Nov. 2005*

Dissertation title: Experimental Aerodynamic and Static Elastic Deformation Characterization of LAR Flexible Fixed Wings applied to Micro Aerial Vehicles.

- Wei Liu, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2005*

Dissertation title: Cross-Layer Design of Resource Aware Protocols for Heterogeneous Wireless Ad Hoc Networks.

- Jianhua Liu, Department of Electrical & Computer Engineering, University of Florida *Complete date: Aug. 2004*

Dissertation title: System Design and Signal Processing for OFDM-Based Wireless Communication Systems.

- Deniz Rende, Department of Electrical & Computer Engineering, University of Florida *Complete date: June 2004*

Dissertation title: Bit-Interleaved Space-Frequency Coded Modulation for Orthogonal Frequency-Division Multiplexing Systems.

- Ph.D. Dissertation Committees (ongoing)

- Xianhao Chen, Department of Electrical & Computer Engineering, University of Florida *March 2021 – present*

- Tierui Zou, Department of Electrical & Computer Engineering, University of Florida *September 2020 – present*

- Kang Yang, Department of Electrical & Computer Engineering, University of Florida *September 2020 – present*

- Runhan Sun, Department of Mechanical & Aerospace Engineering, University of Florida *August 2020 – present*

- Victoria Crawford, Department of Computer & Information Science & Engineering, University of Florida *September 2018 – present*

- Thesis Master Students

- Ishan Patwa, Department of Electrical & Computer Engineering, University of Florida *Oct. 2014 – present*
- M.S. Thesis Committees
 - Ran Dou, Department of Electrical & Computer Engineering, University of Florida *Feb. 2020 – present*
 - Ning Wang, Department of Electrical & Computer Engineering, University of Florida *Complete date: Oct. 2010*
Thesis title: A Semi-definite Programming Approach to Distance-based Cooperative Localization in Wireless Sensor Networks.
 - Shang Mu, Department of Mechanical & Aerospace, University of Florida *Complete date: Oct. 2007*
Thesis title: Open-source Model-image Registration Software for Skeletal Kinematic Analysis.
 - Sumit Gupta, Department of Mechanical & Aerospace, University of Florida *Complete date: April 2006*
Thesis title: Lyapunov-Based Range and Motion Identification for Affine and Non-Affine 3D Vision Systems.
 - Pankaj Aggarwal, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2005*
Thesis title: Mobile Authentication in Wireless Systems.
- Graduate Students for Independent Study
 - He Wang, Department of Electrical & Computer Engineering, University of Florida *Aug. 2011 – Dec. 2011*
 - Qiuyuan Huang, Department of Electrical & Computer Engineering, University of Florida *Aug. 2011 – Dec. 2011*
 - Alexander M Chebaro, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – May 2011*
 - Yuejia He, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – May 2011*
 - Raghuv Gopalakrishnan, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – May 2011*
 - Komal Kasat, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – May 2011*

- Rohit Mainkar, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011*
– *May 2011*
- Sumalya Pal, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011*
– *May 2011*
- Sujay Shrivastava, Department of Electrical & Computer Engineering, University of Florida
Jan. 2011 – May 2011
- Alexander M Chebaro, Department of Electrical & Computer Engineering, University of Florida
Aug. 2010 – Dec. 2010
- Shankar Myilswamy, Department of Electrical & Computer Engineering, University of Florida
Aug. 2010 – Dec. 2010
- Hrishikesh Pendurkar, Department of Electrical & Computer Engineering, University of Florida
Aug. 2010 – Dec. 2010
- Sujay Shrivastava, Department of Electrical & Computer Engineering, University of Florida
Aug. 2010 – Dec. 2010
- Manikan Narayanaswamy, Department of Electrical & Computer Engineering, University of
Florida *Jan. 2010 – May 2010*
- Ramesh Kandasamy, Department of Electrical & Computer Engineering, University of Florida
Jan. 2010 – May 2010
- Chiragkumar Agrawal, Department of Electrical & Computer Engineering, University of Florida
Jan. 2010 – May 2010
- Rafeeq Abdul, Department of Electrical & Computer Engineering, University of Florida *Aug. 2009*
– *Dec. 2009*
- Ashwin Balakrishnan, Department of Electrical & Computer Engineering, University of Florida
Aug. 2009 – Dec. 2009
- Qin Chen, Department of Electrical & Computer Engineering, University of Florida *Aug. 2009*
– *Dec. 2009*
- Prashanth Gopinath, Department of Electrical & Computer Engineering, University of Florida
Aug. 2009 – Dec. 2009
- Sumit Kandpal, Department of Electrical & Computer Engineering, University of Florida *Aug. 2009*
– *Dec. 2009*

- Anand Krishnamachari, Department of Electrical & Computer Engineering, University of Florida
Aug. 2009 – Dec. 2009
- Anushree Saxena, Department of Electrical & Computer Engineering, University of Florida
Aug. 2009 – Dec. 2009
- Prashanth Gopinath, Department of Electrical & Computer Engineering, University of Florida
Aug. 2009 – Dec. 2009
- Ashwin Balakrishnan, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Ramesh Kandasamy, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Megha Mathur, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Anushree Saxena, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Pranali Narendra Shah, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Deepika Hindupur, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Chandni Singh, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Surbhi Singhal, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Ayyappa Karthikeyan, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Qin Chen, Department of Electrical & Computer Engineering, University of Florida
May 2009 – Aug. 2009
- Syed Owais Ahmad, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009
- Deepika Hindupur, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009

- Young-Ho Jo, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Gaurav Joshi, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Madhur Mehta, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Rishi Ramesh Panjwani, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009
- Keshav Sunder Rajan, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009
- Tilottama Sen, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Pranali Narendra Shah, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009
- Chandni Singh, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Surbhi Singhal, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Ruofan Yang, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Zongrui Ding, Department of Electrical & Computer Engineering, University of Florida *Jan. 2009*
– *May 2009*
- Ramachandran Eswaran, Department of Electrical & Computer Engineering, University of Florida
Jan. 2009 – May 2009
- Ramachandran Eswaran, Department of Electrical & Computer Engineering, University of Florida
Aug. 2008 – Dec. 2008
- Keshav Rajan, Department of Electrical & Computer Engineering, University of Florida *Aug. 2008*
– *Dec. 2008*
- Christopher R. Paulson, Department of Electrical & Computer Engineering, University of Florida
Aug. 2007 – Dec. 2007

- Zheng Gao, Department of Electrical & Computer Engineering, University of Florida *Aug. 2007*
– *Dec. 2007*
- Shuang Liu, Department of Electrical & Computer Engineering, University of Florida *Aug. 2007*
– *Dec. 2007*
- Shuang Li, Department of Electrical & Computer Engineering, University of Florida *May 2007*
– *Aug. 2007*
- Xu Zhao, Department of Agricultural and Biological Engineering, University of Florida *Sept. 2006*
– *Dec. 2006*
- Stuart G. Nielson, Department of Electrical & Computer Engineering, University of Florida
May 2006 – Aug. 2006
- Deepika Dwivedi, Department of Electrical & Computer Engineering, University of Florida
Jan. 2005 – April 2005
- Vignesh Krishnan, Department of Electrical & Computer Engineering, University of Florida
Jan. 2004 – April 2004
- Manasa Raghavan, Department of Electrical & Computer Engineering, University of Florida
Jan. 2004 – April 2004
- Archana Rao, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004*
– *April 2004*
- Xiaomin Zhu, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004*
– *April 2004*
- B.S. Thesis Supervised
 - James Greco, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2005*
Thesis title: Parallel Computer Vision and Image Processing Architecture.
- B.S. Thesis Committee
 - Alexandar Chebaro, Department of Electrical & Computer Engineering, University of Florida
Complete date: April 2010
Thesis title: Interference Management Strategies for Uplink Transmission in Cellular Networks.
- Postdoctoral associates

- Dr. Huazi Zhang, Department of Electrical & Computer Engineering, University of Florida *August 2014 – October 2015*
- Dr. Hyung Rai Oh, Department of Electrical & Computer Engineering, University of Florida *August 2011 – July 2012*
- Dr. Kejie Lu, Department of Electrical & Computer Engineering, University of Florida *April 2004 – July 2005*

- Visitors

- Dr. Zengshun Zhao, Department of Electrical & Computer Engineering, University of Florida *April 2017 – March 2018*
- Dr. Xu Zhang, Department of Electrical & Computer Engineering, University of Florida *Nov. 2015 – May 2016*
- Dr. Yong Niu, Department of Electrical & Computer Engineering, University of Florida *Dec. 2014 – May 2015*
- Dr. Wei Wang, Department of Electrical & Computer Engineering, University of Florida *March 2014 – Dec. 2014*
- Dr. Zhengchuan Chen, Department of Electrical & Computer Engineering, University of Florida *Dec. 2013 – Dec. 2014*
- Dr. Liquan Shen, Department of Electrical & Computer Engineering, University of Florida *Nov. 2013 – Nov. 2014*
- Dr. Kwang-deok Seo, Department of Electrical & Computer Engineering, University of Florida *Aug. 2012 – Aug. 2013*
- Dr. Lei Sun, Department of Electrical & Computer Engineering, University of Florida *Sept. 2011 – Sept. 2012*
- Dr. Hwangjun Song, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – Jan. 2012*
- Dr. Tao Han, Department of Electrical & Computer Engineering, University of Florida *August 2010 – August 2011*
- Dr. Wang Liu, Department of Electrical & Computer Engineering, University of Florida *Oct. 2010 – Oct. 2011*

- Dr. Zhi Chen, Department of Electrical & Computer Engineering, University of Florida *Oct. 2009 – Oct. 2010*
- Yi Chen, Department of Electrical & Computer Engineering, University of Florida *Sept. 2009 – Sept. 2010*
- Dr. Qing Wang, Department of Electrical & Computer Engineering, University of Florida *Sept. 2008 – Aug. 2009*
- Dr. Pengwei Hao, Department of Electrical & Computer Engineering, University of Florida *March 2009 – May 2009*
- Dr. Yunzhao Li, Department of Electrical & Computer Engineering, University of Florida *Oct. 2007 – Dec. 2008*

Affiliations

- Affiliated Faculty, Technological University of America *March 2010–present*
- Graduate faculty, Department of Computer and Information Science and Engineering, University of Florida *March 2010–present*
- Member, Wireless Information Networking Group (WING), University of Florida *Aug. 2005–present*
- Member, Genetics Institute, University of Florida *April 2007–present*
- Member, NSF Center for High-Performance Reconfigurable Computing (CHREC) *May 2006–May 2007*
- Member, Center for MAV Research, University of Florida *Sept. 2004–May 2006*

University Service

- Member of the steering committee for strategic planning for the information technology research area, College of Engineering, University of Florida *Oct. 2009–present*
- Mentor, University Minority Mentor Program, University of Florida *Aug. 2008–July 2009*
- Mentor, Student Science Training Program (for high school students), University of Florida *May 2008–Aug. 2008*
- Member of Search Committee for Associate Dean for Research and Graduate Programs, College of Engineering, University of Florida *Sept. 2008–Nov. 2008*

Departmental Service

- Member of ECE Website Redesign Committee *Sept. 2011–present*

- Member of Faculty Search Committee *Nov. 2010–April 2011*
- Member of Graduate Recruiting and Admissions Committee *Aug. 2007–present*
- Member of ABET Committee for EGN 1935 (ECE Adventures) *Aug. 2007–present*
- Member of ABET Committee for EEL 3112 (Circuits 2) *Aug. 2004–present*
- Member of Awards Committee *Aug. 2004–present*
- Member of Faculty Search Committee *July 2005–May 2006*
- Member of Graduate Admissions and Aid Committee *Sept. 2003–May 2004*

Professional Activities

- Editorship for international journals
 - Editor-at-Large for IEEE Open Journal of the Communications Society Editorial Board, *2020–present*
 - Editor-in-Chief for IEEE Transactions on Network Science and Engineering, *2017–present*
 - Founding Editor-in-Chief for Journal of Advances in Multimedia *July 2006–December 2008*
 - Founder of IEEE Transactions on Network Science and Engineering, *2013*
 - Associate Editor for Wireless Networks, Springer *November 2019–present*
 - Associate Editor for IEEE Transactions on Communications *June 2016–December 2018*
 - Senior Editor for IEEE Signal Processing Magazine *Jan. 2015–December 2017*
 - Associate Editor for IEEE Transactions on Signal and Information Processing over Networks *Nov. 2014–December 2017*
 - Associate Editor for IEEE Transactions on Wireless Communications *March 2006–Nov. 2010*
 - Associate Editor for IEEE Transactions on Circuits and Systems for Video Technology *Jan. 2006–March 2016*
 - Associate Editor for IEEE Transactions on Vehicular Technology *Jan. 2004–Nov. 2007*
 - Associate Editor for Journal of Visual Communication and Image Representation, Elsevier, *June 2010–Dec. 2013*
 - Associate Editor for International Journal of Ad Hoc and Ubiquitous Computing, INDER-SCIENCE, *Sept. 2004–Dec. 2013*
 - Editor for SigPort, IEEE Signal Processing Society, *April 2016–present*
 - Guest Editor for IEEE Wireless Communications, Special Issue on Emerging Visual IoT Technologies for Future Communications and Networks, *2020*
 - Lead Guest Editor for IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Airborne Communication Networks, *2018*
 - Guest Editor for Computers & Electrical Engineering, Special Issue on Software Architecture and Modeling for Industrial Internet of Things, *2015*
 - Guest Editor for IEEE Transactions on Multimedia, Special Issue on Cloud-based Video Processing and Content Sharing, *2015*

- Guest Editor for IEEE Network Magazine, Special Issue on Machine and Robotic Networking, 2011
- Guest Editor for Journal of Visual Communication and Image Representation (JVCI), Special Issue on Network Technologies for Emerging Broadband Multimedia Services, 2008
- Guest Editor for IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Cross-layer Optimized Wireless Multimedia Communications, 2006
- Guest Editor for Special Issue on SOFT RADIO-ENABLED HETEROGENEOUS WIRELESS NETWORKS, ACM Mobile Networks and Applications (MONET) Journal, 2005
- Membership of steering committees or advisory boards for international journals
 - Member of the Steering Committee of IEEE Transactions on Network Science and Engineering, 2016–2017
 - Member of the Steering Committee of IEEE Wireless Communications Letters, representing the IEEE Signal Processing Society, *January 1, 2014–December 31, 2017*
 - Member of the Advisory Board of the EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, *January 2014–present*
- Chair, Conference Committee, SigPort, IEEE Signal Processing Society, *April 2016–present*
- Member of the IEEE Signal Processing Society Publications Board, *January 1, 2014–December 31, 2017*
- Member of the IEEE Signal Processing Society Conference Board, *January 1, 2016–December 31, 2017*
- Advisor, Interest Group (IG) on Media Streaming, Technical Committee on Multimedia Communications, IEEE Communications Society *2014–present*
- Advisor, Interest Group (IG) on Distributed and Sensor Networks for Mobile Media Computing and Applications, Technical Committee on Multimedia Communications, IEEE Communications Society *2014–present*
- Chair, Special Committee of Area Chairs, Multimedia Signal Processing (MMSP) Technical Committee, IEEE Signal Processing Society *Jan. 2011–Dec. 2012*
- Chair, Mobile and wireless multimedia Interest Group (MobIG), Technical Committee on Multimedia Communications, IEEE Communications Society *July 2004–June 2010*
- Chair, Award Committee, Technical Committee on Multimedia Communications, IEEE Communications Society *Sept. 2008–June 2010*
- Director of Communication, IEEE Gainesville Section *Jan. 2004–Dec. 2005*
- Member, Best Paper Award Committee, Technical Committee on Multimedia Communications, IEEE Communications Society *July 2004–present*
- Member, Best Paper Award Committee, IEEE International Conference on Multimedia and Expo (ICME 2006), Toronto, Canada, July 9–12, 2006.

- Member, EDICS committee for IEEE Transactions on Circuits and Systems for Video Technology *Nov. 2007–present*
- Organizer or Executive Committee for international conferences
 - Area Chair for IEEE INFOCOM 2022, London, UK, May 2–6, 2022.
 - Technical Program Committee Chair for International Conference on Artificial Intelligence, Automation and Algorithm (AI2A 2021), Singapore, July 23–25, 2021.
 - Area Chair for IEEE INFOCOM 2021, Vancouver, Canada, May 10–13, 2021.
 - Award Chair for NeurIPS 2020 Workshop on Scalability, Privacy, and Security in Federated Learning (SpicyFL 2020), Vancouver, Canada, December 5–12, 2020.
 - Technical Program Committee Chair for the 3rd International Conference on Machine Learning and Machine Intelligence (MLMI 2020), Hangzhou, China, September 18–20, 2020.
 - Area Chair for IEEE INFOCOM 2020, Beijing, China, April 27–30, 2020.
 - General Chair for IEEE International Conference on Smart Internet of Things (SmartIoT), Tianjin, China, August 9–11, 2019.
 - Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 13–16, 2019.
 - General Chair for IEEE INFOCOM Workshop on Machine Learning for Networking, Paris, France, April 29, 2019.
 - Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 18–21, 2018.
 - General Chair for IEEE INFOCOM Workshop on Knowledge Centric Networking (KCN), Honolulu, HI, USA, April 16, 2018.
 - Conference Board Liaison for IEEE Global Conference on Signal and Information Processing (GlobalSIP), Montreal, Canada, November 14–16, 2017.
 - General Chair for International Conference on Smart Internet of Things (SmartIoT), Dalian, Liaoning, China, August 18–19, 2017.
 - Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 4–6, 2017.
 - Area Chair for IEEE VCIP 2016, Chengdu, Sichuan, P.R. China, November 27–30, 2016.
 - General Chair for IEEE Global Conference on Signal and Information Processing (GlobalSIP), Orlando, FL, USA, December 14–16, 2015.
 - Technical Program Committee Chair for International Conference on Future Internet Technologies, Seoul, Korea, June 8–10, 2015.
 - Area Chair for IEEE INFOCOM 2014, Toronto, Canada, April 27–May 2, 2014.
 - Tutorial Chair for Visual Communications and Image Processing (VCIP), Kuching, Sarawak, Malaysia, November 24–27, 2013.
 - Panel organizer, IEEE Computer Communications Workshop (CCW), Niagara Falls, Ontario, Canada, November 13–15, 2013.
 - Chair, NSF Workshop on Future Directions of Wireless Networking, Arlington, VA, USA, November 4–5, 2013.

- Member of Steering Committee for International Conference on Advances in Computing, Communications and Informatics (ICACCI), Mysore, India, August 22–25, 2013.
- General Chair for International Symposium on Security in Computing and Communications (SSCC), Mysore, India, August 22–24, 2013.
- Area Chair for IEEE INFOCOM 2013, Turin, Italy, April 14–19, 2013.
- Panel organizer, NSF Workshop on Big Data: From Signal Processing to Systems Engineering, Arlington, VA, USA, March 21–22, 2013.
- Special Session Organizer, Asia-Pacific Signal and Information Processing Association (AP-SIPA) Annual Summit and Conference, Hollywood, CA, USA, December 3–6, 2012.
- Program Co-Chair for IEEE International Conference on Communications in China, Signal Processing for Communications Symposium, Beijing, China, August 15–18, 2012.
- Chair for Best Paper Award Committee of IEEE INFOCOM 2012, Orlando, FL, USA, March 25 – March 30, 2012.
- Technical Program Committee Chair for IEEE INFOCOM 2012, Orlando, FL, USA, March 25 – March 30, 2012.
- Poster & Demo Chair for International Conference on Mobile and Ubiquitous Multimedia (MUM) 2011, Beijing, China, December 7–9, 2011.
- Area Chair for IEEE International Conference on Image Processing (ICIP), Brussels, Belgium, September 11–14, 2011.
- Publicity Chair for IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2011), San Francisco, CA, USA, June 26 – June 29, 2011.
- Area Chair for IEEE INFOCOM 2011, Shanghai, China, April 10–15, 2011.
- General Chair for IEEE International Conference on Multimedia and Expo (ICME) 2009, Workshop on Emerging Technology in Multimedia Communication and Networking, New York City, NY, USA, June 28 – July 3, 2009.
- Program Co-Chair for IEEE International Conference on Communications (ICC 2008), Signal Processing for Communications Symposium, Beijing, China, May 19–23, 2008.
- Program Co-Chair for International Conference on Aging, Disability, and Independence (ICADI 2008), Research and Development Theme, St. Petersburg, Florida, USA, February 20–23, 2008.
- Track Chair for IEEE Vehicular Technology Conference (VTC 2007 Fall conference), Wireless Applications Track, Baltimore, Maryland, USA, October 1–3, 2007.
- Student Travel Grant Chair for IEEE INFOCOM 2007, Anchorage, Alaska, USA, May 6–12, 2007.
- Publicity Chair for IEEE INFOCOM 2007, Anchorage, Alaska, USA, May 6–12, 2007.
- Track Chair for IEEE International Conference on Multimedia and Expo (ICME 2006), Multimedia Networking Track, Toronto, Canada, July 9–12, 2006.
- Publicity Chair for International Wireless Communications & Mobile Computing Conference (IWCMC 2006), Vancouver, Canada, July 3–6, 2006.
- Publicity Co-Chair for IEEE Consumer Communications and Networking Conference (CCNC 2006), Las Vegas, Nevada, USA, January 7–10, 2006.
- Publicity Co-Chair for First International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2005), San Jose, California, USA, December 19–21, 2005.

- Student Travel Awards Chair for First International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2005), Athens, Greece, September 2005.
 - Organizer of Special session on mobile and wireless multimedia, IEEE International Conference on Communications (ICC 2005), Multimedia Communication and Home Networking Symposium, Seoul, Korea, May 16–20, 2005.
 - Program Co-Chair for IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.
- Member of technical program committees for international conferences
 - IEEE INFOCOM 2019, Paris, France, April 29 – May 2, 2019.
 - IEEE INFOCOM 2018, Honolulu, HI, USA, April 15–19, 2018.
 - IEEE INFOCOM 2017, Atlanta, GA, USA, May 1–4, 2017.
 - IEEE INFOCOM 2016, San Francisco, CA, USA, April 10–April 15, 2016.
 - IEEE INFOCOM 2015, Hong Kong, China, April 26–April 30, 2015.
 - IEEE International Conference on Image Processing (ICIP), Paris, France, October 27–30, 2014.
 - IEEE INFOCOM 2014, Toronto, Canada, April 27–May 2, 2014.
 - IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013), Beijing, China, July 6–10, 2013.
 - IEEE International Symposium on Circuits and Systems (ISCAS 2013), Beijing, China, May 19–23, 2013.
 - IEEE International Conference on Smart Grid Communications, Tainan City, Taiwan, November 5–8, 2012.
 - IEEE International Workshop on Multimedia Signal Processing (MMSP), Banff, Canada, September 17–19, 2012.
 - IEEE International Conference on Multimedia and Expo (ICME), Melbourne, Australia, July 9–13, 2012.
 - IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Kyoto, Japan, March 25–30, 2012.
 - IEEE International Conference on Emerging Signal Processing Applications (ESPA), Las Vegas, NV, USA, January 12–14, 2012.
 - IEEE SmartGridComm, Symposium on Architectures and Models for the Smart Grid, Brussels, Belgium, October 17–20, 2011.
 - IEEE International Workshop on Multimedia Signal Processing (MMSP), Hangzhou, China, October 17–19, 2011.
 - IEEE International Conference on Image Processing (ICIP), Brussels, Belgium, September 11–14, 2011.
 - Workshop on Simplifying Complex Network for Practitioners (SIMPLEX’11), Minneapolis, Minnesota, USA, June 24, 2011.
 - IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Prague, Czech Republic, May 22–27, 2011.

- International Wireless Communications and Mobile Computing Conference, Caen, France, June 28 – July 2, 2010.
- IEEE INFOCOM 2010, San Diego, California, USA, March 15–19, 2010.
- IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Dallas, TX, USA, March 14 – 19, 2010.
- IEEE Global Telecommunications Conference (Globecom 2009), Wireless Networking Symposium, Hawaii, USA, November 30 – December 4, 2009.
- IEEE International Workshop on Multimedia Signal Processing (MMSP 2009), Rio de Janeiro, Brazil, October 5–7, 2009.
- IEEE International Conference on Communications (ICC 2009), Wireless Networking Symposium, Dresden, Germany, June 14–18, 2009.
- IEEE INFOCOM 2009, Rio de Janeiro, Brazil, April 19–25, 2009.
- IEEE Global Telecommunications Conference (Globecom 2008), Wireless Networking Symposium, New Orleans, LA, USA, November 30 – December 4, 2008.
- IEEE INFOCOM 2008, Phoenix, Arizona, USA, April 13–19, 2008.
- IEEE Global Telecommunications Conference (Globecom 2007), Wireless Networking Symposium, Washington, D.C., USA, November 26 – 30, 2007.
- The Fourth International Conference on Broadband Communications, Networks, and Systems (BROADNETS 2007), Wireless Symposium, Raleigh, North Carolina, USA, September 2007.
- IEEE Statistical Signal Processing Workshop, Madison, Wisconsin, USA, August 26–29, 2007.
- 16TH INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS AND NETWORKS (ICCCN 2007), Emerging Technologies and Standards Track, Turtle Bay Resort, Honolulu, Hawaii, USA, August 13–16, 2007.
- IEEE International Conference on Communications (ICC 2007), Computer and Communications Network Security Symposium, Glasgow, Scotland, UK, June 24–28, 2007.
- IEEE INFOCOM 2007, Anchorage, Alaska, USA, May 6–12, 2007.
- IEEE Wireless Communications and Networking Conference, (WCNC 2007), Hong Kong, March 11–15, 2007.
- IEEE Global Telecommunications Conference (Globecom 2006), Wireless Communications Symposium, San Francisco, CA, USA, November 27 – December 1, 2006.
- IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS 2006), Vancouver, Canada, October 9 – 12, 2006.
- International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), August 15–18, 2006, Xi'an, China.
- IEEE International Conference on Multimedia and Expo (ICME 2006), Toronto, Canada, July 9–12, 2006.
- IEEE International Conference on Communications (ICC 2006), General Conference, Istanbul, Turkey, June 11–15, 2006.
- IEEE International Symposium on Circuits and Systems (ISCAS 2006), May 21–24, 2005, Kos, Greece.
- IEEE INFOCOM 2006, Barcelona, Spain, April 24–27, 2006.

- IEEE Global Telecommunications Conference (Globecom 2005), Wireless Communications Symposium, St. Louis, MO, USA, November 28 – December 2, 2005.
- IEEE/ACM Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2005), Orlando, Florida, USA, August 22–24, 2005.
- IEEE Workshop on Local and Metropolitan Area Networks (LANMAN’05), Chania, Island of Crete, Greece, September 18–21, 2005.
- IEEE International Conference on Multimedia and Expo (ICME 2005), Amsterdam, The Netherlands, July 6–8, 2005.
- The 2005 International Conference on Parallel Processing (ICPP-05), Georg Sverdrups House, University of Oslo, Norway, June 14–17, 2005.
- IEEE International Symposium on Circuits and Systems (ISCAS 2005), May 23–26, 2005, Kobe, Japan.
- IEEE International Conference on Communications (ICC 2005), General Conference, Seoul, Korea, May 16–20, 2005.
- IEEE International Conference on Communications (ICC 2005), Multimedia Communication and Home Networking Symposium, Seoul, Korea, May 16–20, 2005.
- International Workshop on Standardization, Interoperability and Deployment of Wireless Access Solutions (SID-WAS 2005), Orlando, Florida, USA, April 21, 2005.
- IEEE International Workshop on Multimedia Systems and Networking (WMSN’05), Phoenix, Arizona, USA, April 7–9, 2005.
- IEEE Wireless Communications and Networking Conference, (WCNC 2005), New Orleans, LA, USA, March 13–17, 2005.
- IEEE INFOCOM 2005, Miami, Florida, USA, March 13–17, 2005.
- IEEE International Packet Video Workshop (PV 2004), Irvine, CA, USA, December 13–14, 2004.
- IEEE Global Telecommunications Conference (Globecom 2004), General Symposium, Dallas, Texas, USA, November 29 – December 3, 2004.
- IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.
- IEEE/ACM First International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2004), Dallas, Texas, USA, October 18–20, 2004.
- IEEE International Conference on Multimedia and Expo (ICME 2004), Taipei, Taiwan, June 27–30, 2004.
- IEEE International Conference on Communications (ICC 2004), Multimedia Technologies and Services Symposium, Paris, France, June 20–24, 2004.
- IEEE International Symposium on Circuits and Systems (ISCAS 2004), May 23–26, 2004, Vancouver, British Columbia, Canada.
- IEEE Workshop on Local and Metropolitan Area Networks (LANMAN’04), Mill Valley, CA, USA, April 25–28, 2004.
- IEEE Wireless Communications and Networking Conference (WCNC 2004), Atlanta, GA, USA, March 21–25, 2004.
- 2nd International Conference on Wired/Wireless Internet Communications (WWIC 2004), Frankfurt (Oder), Germany, February 5–7, 2004.

- IEEE Consumer Communications and Networking Conference (CCNC 2004), Las Vegas, Nevada, USA, January 5–8, 2004.
- Panelist for international conferences
 - Panel on Research Trend and Challenge in Cloud Computing and Big Data, International Conference on Cloud Computing and Big Data (CloudCom-Asia), Hong Kong, June 7–9, 2016.
 - Panel on Signal Processing R&D Trends, IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015), Chengdu, Sichuan, China, July 12–15, 2015.
 - Panel on mobile multimedia, IEEE Computer Communications Workshop (CCW), Niagara Falls, Ontario, Canada, November 13–15, 2013.
 - Panel on theoretical foundation for network science, IEEE Computer Communications Workshop (CCW), Niagara Falls, Ontario, Canada, November 13–15, 2013.
- Session chair for international conferences
 - IEEE ICC 2016, Kuala Lumpur, Malaysia, May 23–27, 2016.
 - IEEE INFOCOM 2015, Hong Kong, China, April 26–April 30, 2015.
 - SPIE Visual Communications and Image Processing (VCIP 2010), Huang Shan, An Hui, China, July 11–14, 2010.
 - IEEE CCNC 2009, Las Vegas, Nevada, USA, January 10–13, 2009.
 - International Conference on Pattern Recognition (ICPR 2008), Workshop on Mobile Multimedia Processing, Tampa, FL, USA, December 7, 2008.
 - IEEE ICC 2008, Beijing, China, May 19–23, 2008.
 - IEEE Milcom 2007, Orlando, FL, USA, October 29–31, 2006.
 - IEEE Globecom 2006, San Francisco, CA, USA, November 27–December 1, 2006.
 - IEEE INFOCOM 2006, Barcelona, Spain, April 24–27, 2006.
 - IEEE Globecom 2005, St. Louis, MO, USA, November 28–December 2, 2005.
 - QShine 2005, Orlando, FL, USA, Aug. 22–24, 2005.
 - IEEE ICC 2005, Seoul, Korea, May 16–20, 2005.
 - IEEE INFOCOM 2005, Miami, Florida, USA, March 13–17, 2005.
 - IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13–14, 2004.
 - IEEE Globecom 2004, Dallas, Texas, USA, November 29–Dec. 3, 2004.
 - IEEE Wireless Communications and Networking Conference (WCNC 2004), Atlanta, GA, USA, March 21–25, 2004.
 - IEEE Vehicular Technology Conference (VTC) Fall 2003, Orlando, Florida, USA, October 4–9, 2003.
 - International Packet Video Workshop, Pittsburgh, PA, USA, April 24–26, 2002.
- Reviewing Activities and Panelist for Government Funding Agencies

- National Science Foundation (NSF), U.S.
 - Defense Advanced Research Projects Agency (DARPA), U.S. Department of Defense
 - U.S. Army Research Office
 - U.S. Department of Energy
 - Kentucky Science & Engineering Foundation, U.S.
 - Louisiana Board of Regents Support Fund, U.S.
 - Natural Sciences and Engineering Research Council of Canada
 - British Columbia Innovation Council, Canada
 - General Research Fund (GRF), Research Grants Council of Hong Kong
 - Collaborative Research Fund (CRF), Research Grants Council of Hong Kong
 - Research Impact Fund (RIF), Research Grants Council of Hong Kong
 - University Grants Committee, Hong Kong
 - Qatar National Research Fund
 - Austrian Science Fund
- Reviewing Activities for Archived Journals
 - IEEE Transactions on Broadcasting
 - IEEE Transactions on Circuits and Systems for Video Technology
 - IEEE Transactions on Communications
 - IEEE Transactions on Information Theory
 - IEEE Transactions on Multimedia
 - IEEE Transactions on Image Processing
 - IEEE/ACM Transactions on Networking
 - IEEE Transactions on Wireless Communications
 - IEEE Journal on Selected Areas in Communications
 - IEEE Signal Processing Letters
 - IEEE Signal Processing Magazine
 - IEEE Communications Magazine
 - IEEE Wireless Communications Magazine
 - IEE Electronics Letters
 - ACM Wireless Networks
 - ACM Mobile Networks and Applications (MONET)
 - EURASIP Journal on Applied Signal Processing
 - Journal of Visual Communication and Image Representation (Elsevier)
 - Computer Networks (Elsevier)
 - Journal of Communications and Networks
 - Theoretical Computer Science, Elsevier

- Reviewing Activities for International Conferences
 - IEEE INFOCOM (1999, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014)
 - IEEE ICC (1998, 2004, 2005, 2006, 2007, 2008)
 - IEEE GLOBECOM (2001, 2002, 2003, 2004, 2005, 2006, 2007)
 - IEEE WCNC (2001, 2004, 2005, 2007)
 - IEEE NetWorld+Interop (2000)
 - IEEE Real-Time Systems Symposium (1999)
 - IEEE CONSUMER COMMUNICATIONS AND NETWORKING CONFERENCE (CCNC 2004)
 - International Packet Video Workshop (2003)
- Membership in Professional Societies
 - IEEE: Fellow
 - * Aerospace & Electronic Systems Society (AESS)
 - * Circuits and Systems Society (CAS)
 - Member of Technical Committee on Visual Signal Processing & Communications
 - * Communications Society (ComSoc)
 - Member of Technical Committee on Multimedia Communications
 - Member of Technical Committee on Personal Communications
 - Member of Technical Committee on Computer Communications
 - Member of Technical Committee on Internet
 - Member of Technical Committee on Communication Theory
 - * Computer Society
 - Member of Task Force on Network Science
 - * Information Theory Society
 - * Signal Processing Society
 - Member of Multimedia Signal Processing Technical Committee, 1/1/2009–12/31/2012
 - Member of the Workshop/Conference Subcommittee, Multimedia Signal Processing Technical Committee, 3/2009–12/2012
 - * Vehicular Technology Society
 - ACM
 - * SIGCOMM: Data Communications
 - * SIGMOBILE: Mobility of Systems, Users, Data and Computing
 - Society for Industrial and Applied Mathematics (SIAM)
 - American Society for Engineering Education
 - SPIE

Keynote/Plenary Speech, Distinguished Lectures

1. “Challenges in AI Security,” Keynote Speech, Symposium on Signal Processing Systems (SSPS), Beijing, China, March 26-28, 2021.

2. “Challenges in AI Security,” Keynote Speech, International Conference on Computational Intelligence and Security (CIS), Nanning, China, November 27-30, 2020.
3. “Security and Privacy Challenges in Deep Learning,” Keynote Speech, International Conference on Machine Learning and Machine Intelligence (MLMI), Hangzhou, China, September 18–20, 2020.
4. “Security and Privacy Issues in Deep Learning for Smart IoT,” Keynote Speech, IEEE International Conference on Smart Internet of Things (SmartIoT), Beijing, China, August 14–16, 2020.
5. “Unification of Deep Learning and Reasoning,” Keynote Speech, International Symposium on Artificial Intelligence and Robotics (ISAIR 2020), Kitakyushu, Japan, August 8–10, 2020.
6. “Airborne Communication Networks: Challenges and Approaches,” Keynote Speech, IEEE Globecom 2019, Workshop on Computing-Centric Drone Networks, Waikoloa, HI, USA, December 13, 2019.
7. “Airborne Communication Networks: Challenges and Approaches,” Keynote Speech, the 18th IEEE International Conference on Ubiquitous Computing and Communications (IUCC-2019), Shenyang, Liaoning, China, October 21, 2019.
8. “Airborne Communication Networks: Challenges and Approaches,” IEEE Distinguished Lecture, University of Sydney, Sydney, Australia, July 31, 2019.
9. “Airborne Communication Networks: Challenges and Approaches,” IEEE Distinguished Lecture, Swinburne University of Technology, Melbourne, Victoria, Australia, July 29, 2019.
10. “Tensor Product Generation Networks for Deep NLP Modeling,” Keynote Speech, ACM Turing Celebration Conference – China (ACM TURC 2019), Chengdu, Sichuan, China, May 18, 2019.
11. “Airborne Networks for Internet of Things,” Keynote Speech, Forum on AI-Enabled Internet of Things, Chongqing, China, May 15, 2019.
12. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, China Cloud Computing and Internet of Things Conference, Chongqing, China, May 14, 2019.
13. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, International Conference on Digital Image and Signal Processing (DISP), St Hugh’s College, Oxford University, United Kingdom, April 29, 2019.
14. “Unification of Deep Learning and Reasoning,” Keynote Speech, the 14th International Conference on Computational Intelligence and Security (CIS), Hangzhou, Zhejiang, P. R. China, November 17, 2018.
15. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, ShanghaiTech Workshop on Information, Learning and Decision (SWILD), Shanghai, P. R. China, June 30, 2018.
16. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, ACM Turing Celebration Conference – China (ACM TURC 2018), Shanghai, China, May 19–20, 2018.
17. “Network Science and Its Application,” Plenary Speech, the 13th Chinese Conference on Complex Networks (CCCN 2017), Shenzhen, Guangdong, China, November 25, 2017.

18. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, the 7th IET International Conference on Wireless, Mobile & Multimedia Networks (ICWMMN), Beijing, China, November 18, 2017.
19. “Multimedia over Future Internet: Challenges and Opportunities,” Bradley Distinguished Lecture, Virginia Tech, Blacksburg, VA, USA, April 14, 2017.
20. “Why Deep Learning Works?” Keynote Speech, International Conference on Cloud Computing and Big Data (CloudCom-Asia), Hong Kong, June 7–9, 2016.
21. “Multimedia over Future Internet: Challenges and Opportunities,” Keynote Speech, International Conference on Future Internet Technologies (CFI), Seoul, Korea, June 8–10, 2015.
22. “Network Science and Its Application in Wireless Networking,” Distinguished Lecture, International Conference on Computing, Networking, and Communications (ICNC 2014), Honolulu, Hawaii, USA, February 3, 2014.
23. “Scalable Video Transport over Wireless Networks,” Keynote Speech, International Conference on Pattern Recognition (ICPR 2008), Workshop on Mobile Multimedia Processing, Tampa, FL, USA, December 7, 2008.

Panelist at International Conferences

1. Panel on Signal and Information Processing R&D trends, IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015), Chengdu, Sichuan, China, July 12–15, 2015.
2. Panel on Vulnerability and Resilience of Interdependent Systems, IEEE INFOCOM 2015, Workshop on Inter-Dependent Networks, Hong Kong, April 27, 2015.

Tutorial at International Conferences

1. “Streaming Video over the Internet and Wireless Networks,” IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015), Chengdu, Sichuan, China, July 12–15, 2015.

Invited Seminars and Presentations

1. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Purdue University, West Lafayette, IN, USA, July 21, 2008.
2. “A Target Detection Scheme for VHF SAR Ground Surveillance,” Invited Seminar, Air Force Research Laboratory, Dayton, OH, USA, July 16, 2008.
3. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Ohio State University, Columbus, OH, USA, July 11, 2008.
4. “Power-Constrained Multimedia Communication over Wireless Networks,” Invited Seminar, Intel Labs, Portland, Oregon, USA, April 28, 2008.
5. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Tsinghua University, Beijing, P. R. China, August 17, 2007.

6. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 16, 2007.
7. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Institute of Automation, Chinese Academy of Sciences, Beijing, P. R. China, August 16, 2007.
8. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Peking University, Beijing, P. R. China, August 15, 2007.
9. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Intel China Research Center, Beijing, P. R. China, August 15, 2007.
10. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, August 14, 2007.
11. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 13, 2007.
12. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Thomson Corporate Research, Beijing, P. R. China, August 10, 2007.
13. "Motion-Segmentation-Based Change Detection," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.
14. "Robust Feature-based Object Tracking," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.
15. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Intel Labs, Portland, Oregon, USA, July 23, 2007.
16. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Toledo, Toledo, Ohio, USA, July 7, 2007.
17. "Feature-based Object Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 27, 2007.
18. "Motion-Segmentation-Based Approach for Change Detection, Image Registration and Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 14, 2007.
19. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Maryland, College Park, USA, May 2, 2007.
20. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar (CS Colloquium), University of Illinois, Urbana-Champaign, USA, November 6, 2006.
21. "Change Detection: Current State of the Art and Future Directions," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, September 21, 2006.
22. "Multi-view Image Processing: Current State of the Art, Challenges, and Future Directions," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 18, 2006.
23. "Channel Coding: Theory and Applications," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 17, 2006.

24. "Distributed Video Coding for Sensor Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 16, 2006.
25. "Distributed Video Coding for Sensor Networks," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 11, 2006.
26. "Distributed Video Coding for Sensor Networks," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, August 4, 2006.
27. "Uplink Medium Access Control for WLANs with Multi-beam Access Point," Invited Seminar, Intel China Research Center, Beijing, P. R. China, July 28, 2006.
28. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Intel Labs, Portland, Oregon, USA, May 12, 2006.
29. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar (CS Colloquium), University of California, Davis, USA, May 11, 2006.
30. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, HP Labs, Palo Alto, CA, USA, May 10, 2006.
31. "Detecting Distributed Denial-of-Service Attacks Using Pattern Classification Techniques," Invited Seminar, Narus Inc., CA, USA, May 10, 2006.
32. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of Southern California, Los Angeles, USA, May 9, 2006.
33. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of California, Los Angeles, USA, May 8, 2006.
34. "SORI: A Secure and Objective Reputation-based Incentive Scheme for Ad-hoc Networks," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, December 28, 2005.
35. "Uplink Medium Access Control for Wireless Local Area Networks with Multi-beam Access Point," Invited Seminar, Beijing University of Posts and Telecommunications, Beijing, P. R. China, December 27, 2005.
36. "Streaming Video over the Internet," Invited Seminar, Intel China Research Center, Beijing, P. R. China, December 26, 2005.
37. "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," Invited Seminar, Tsinghua University, Beijing, P. R. China, December 22, 2005.
38. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Peking University, Beijing, P. R. China, December 21, 2005.
39. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of Missouri, Columbia, MO, USA, November 28, 2005.
40. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Polytechnic University, Brooklyn, NY, USA, October 17, 2005.
41. "Secure and Scalable Multimedia Streaming," Invited Seminar, IBM T. J. Watson Research Center, Hawthorne, NY, USA, October 14, 2005.

42. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Columbia University, New York, NY, USA, October 13, 2005.
43. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, June 10, 2005.
44. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Beijing University of Posts and Telecommunications, Beijing, P. R. China, June 8, 2005.
45. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Intel Communication Technology Lab, Beijing, P. R. China, June 1, 2005.
46. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Tsinghua University, Beijing, P. R. China, May 30, 2005.
47. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Yonsei University, Seoul, Korea, May 19, 2005.
48. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Sprint Advanced Technology Labs, Burlingame, California, USA, October 29, 2004.
49. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Philips Research Laboratories, USA, Briarcliff Manor, New York, July 27, 2004.
50. “Streaming Video over the Internet,” Invited Seminar, SHARP Labs of America, Camas, Washington, USA, March 5, 2004.
51. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Department of Electrical Engineering, University of California, Riverside, USA, April 2, 2003.
52. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Department of Electrical & Computer Engineering, North Carolina State University, USA, February 28, 2003.

On-campus Seminars and Presentations

1. “Stationary-Sparse Causality Network Learning,” Department of Mathematics, University of Florida, November 13, 2014.
2. “Motion-Segmentation-Based Change Detection,” University of Florida, April 3, 2008.
3. “Image Registration Techniques,” Department of Electrical & Computer Engineering, University of Florida, September 20, 2007.
4. “Change Detection: Current State of the Art and Future Directions,” Department of Electrical & Computer Engineering, University of Florida, September 13, 2007.
5. “Feature-based Object Tracking,” Department of Electrical & Computer Engineering, University of Florida, September 6, 2007.

6. "Streaming video (IPTV) over the Internet," ECE Brown Bag Seminar Series, Department of Electrical & Computer Engineering, University of Florida, January 31, 2006.
7. "Multimedia Communications: Current State of the Art, Challenges, and Future Directions," ECE Brown Bag Seminar Series, Department of Electrical & Computer Engineering, University of Florida, August 31, 2004.
8. "Research in Multimedia Communications & Networking," New Graduate Student Orientation, Department of Electrical & Computer Engineering, University of Florida, August 19, 2004.
9. "Streaming video over the Internet," ECE Research Day Seminar Series, Department of Electrical & Computer Engineering, University of Florida, April 23, 2004.
10. "An Objective and Secure Reputation-based Incentive Scheme for Ad-hoc Networks," Wireless Information Networking Group (WING) Seminar Series, University of Florida, November 3, 2003.

Conference Presentations

1. "Game Theoretical Approach for Non-Overlapping Community Detection," *International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.
2. "Semantic Tensor Product for Image Captioning," *International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.
3. "A Repeated Stochastic Game Approach for Strategic Network Selection in Heterogeneous Networks," *IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
4. "Course Recommendation of MOOC with Big Data Support: A Contextual Online Learning Approach," *IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
5. "Unequal Error Protection for Video Streaming using Delay-aware Fountain Codes," *IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
6. "Routing Protocol Design for Drone-Cell Communication Networks," *IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
7. "Enhanced Routing Protocol for Fast Flying UAV Network," *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, Guangdong, China, December 14–16, 2016.
8. "Storage-Retrieval-Repair Cost Tradeoff in Network-Coded Distributed Storage Systems," *IEEE Global Telecommunications Conference (Globecom)*, Workshop on Cloud Computing Systems, Networks, and Applications, Washington, DC, USA, December 4–8, 2016.
9. "QoS-aware Scheduling for Small Cell Millimeter Wave Mesh Backhaul," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
10. "MPC-based Delay-Aware Fountain Codes for Live Video Streaming," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
11. "Evaluation of Image Quality of Experience in Consideration of Viewing Distance," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015)*, Chengdu, Sichuan, China, July 12–15, 2015.

12. "No-Reference Image Quality Assessment Based on BNB Measurement," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
13. "Delay-Power-Rate-Distortion Model for H.264 Video Coding," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
14. "Self-Organizing-Queue Based Clustering," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
15. "Smoothing the Energy Consumption: Peak Demand Reduction in Smart Grid," *IEEE INFOCOM 2013*, Turin, Italy, April 14 – 19, 2013.
16. "Identification of Network Dynamics and Its Applications," AFOSR Sensing Surveillance Navigation Program Review Workshop 2011, Shalimar, FL, USA, June 14 – 15, 2011.
17. "Secrecy Capacity with Leakage Constraints in Fading Channels," *IEEE Global Telecommunications Conference (Globecom 2010)*, Miami, FL, USA, December 6 – 10, 2010.
18. "Ripplet-II Transform for Feature Extraction," *SPIE Visual Communications and Image Processing (VCIP 2010)*, Huang Shan, An Hui, China, July 11–14, 2010.
19. "Experimental study on GMM-based speaker recognition," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
20. "Depth-based image registration," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
21. "Advanced Techniques for Scene Analysis," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
22. "Diversity Combining Approach for Tracking of Multiple Objects under Partial Occlusion," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
23. "Study of video distortion for real-time video transmission over wireless channels," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
24. "Identifying hidden voice and video streams," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
25. "Tracking of multiple objects under partial occlusion," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
26. "Analysis of Packet Error Probability in Delay Constrained Communication over Fading Channels," *IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.
27. "QoS-Driven Power Allocation for Multi-channel Communication under Delayed Channel Side Information," *IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.
28. "Image representation by compressed sensing," *IEEE International Conference on Image Processing 2008*, San Diego, CA, USA, October 12–15, 2008.

29. "Ripplet transform for feature extraction," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
30. "A Target Detection Scheme for VHF SAR Ground Surveillance," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
31. "Motion-Segmentation-Based Approach for Change Detection, Image Registration and Tracking," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
32. "Ripplet transform for feature extraction," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
33. "A rotation-invariant transform for target detection in SAR images," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
34. "A target detection scheme for VHF SAR ground surveillance," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
35. "Ripplet: a New Transform for Feature Extraction and Image Representation," *Sensors Technology Algorithm Research (STAR) Workshop*, Dayton, OH, USA, July 25–26, 2007.
36. "Motion-Segmentation-Based Change Detection," *SPIE Defense & Security Symposium 2007*, Orlando, FL, USA, April 9–13, 2007.
37. "Design of Bloom Filter Array for Network Anomaly Detection," *IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006.
38. "Power Control and Dynamic Channel Allocation for Delay Sensitive Applications in Wireless Networks," *IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006.
39. "A Countermeasure to Defend Against Relay Attacks in Wireless Networks," *IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006.
40. "An Efficient Proactive Share Refreshing Scheme for Secret Sharing in Distributed Systems," *IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006.
41. "QoS Support for Streaming Media using a Multimedia Server Cluster," *IEEE Global Telecommunications Conference (Globecom 2006)*, San Francisco, CA, USA, November 27 – December 1, 2006. On behalf of the authors: K. Ratakonda, D. S. Turaga, and J. Lai.
42. "A Power-Saving Multi-radio Multi-channel MAC Protocol for Wireless Local Area Networks," *IEEE INFOCOM 2006*, Barcelona, Spain, April 24 – 27, 2006.
43. "Physical Carrier Sensing and Spatial Reuse in Multirate and Multihop Wireless Ad Hoc Networks," *IEEE INFOCOM 2006*, Barcelona, Spain, April 24 – 27, 2006. On behalf of the authors: Hongqiang Zhai and Yuguang Fang.
44. "Uplink Medium Access Control for WLANs with Multi-beam Access Point," *IEEE Globecom 2005*, St. Louis, MO, USA, November 28 – December 2, 2005.

45. "A Hyper-Trellis based Turbo Decoder for Wyner-Ziv Video Coding," IEEE Globecom 2005, St. Louis, MO, USA, November 28 – December 2, 2005.
46. "Effective Capacity Channel Model for Frequency-selective Fading Channels," IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005), Orlando, Florida, USA, August 22–24, 2005.
47. "TCP Streaming for Low-Delay Wireless Video," IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005), Orlando, Florida, USA, August 22–24, 2005. On behalf of the authors: Chi-Fai Wong, Wai-Lam Fung, Chi-Fai Jack Tang, S.-H. Gary Chan.
48. "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.
49. "Authentication, Authorization, and Accounting for Real-Time Secondary Market Services," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.
50. "Performance Analysis of A Burst-Frame-Based MAC Protocol for Ultra-Wideband Ad Hoc Networks," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.
51. "Online Identification of Multi-Attribute High-Volume Traffic Aggregates Through Sampling," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005. On behalf of the authors: Yong Tang and Shigang Chen.
52. "DoS analysis of reservation based (wireless) MAC protocols," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005. On behalf of the authors: Rohit Negi and Arjunan Rajeswaran.
53. "A Model-based Adaptive Motion Estimation Scheme Using Renyi's Entropy for Wireless Video," IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13-14, 2004.
54. "Look-Ahead Processing and Joint Rate Control for Multiple JVT Video Encoders," IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13-14, 2004.
55. "A Dual-channel MAC Protocol for Mobile Ad Hoc Networks," IEEE Workshop on Wireless Ad Hoc and Sensor Networks, in conjunction with IEEE Globecom 2004, Dallas, Texas, USA, November 29, 2004.
56. "Effective Capacity-Based Quality of Service Measures for Wireless Networks," Proc. IEEE/ACM BroadNets 2004, Broadband Wireless Networking Symposium, San Jose, CA, USA, October 25-29, 2004.
57. "Analyzing and Preventing MAC-Layer Denial of Service Attacks for Stock 802.11 Systems," Proc. IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.
58. "A Mechanism for Personal Control over Mobile Location Privacy," Proc. IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.

59. "SORI: A Secure and Objective Reputation-based Incentive Scheme for Ad-hoc Networks," Proc. IEEE Wireless Communications and Networking Conference (WCNC 2004), Atlanta, GA, USA, March 21–25, 2004.
60. "Downlink Scheduling in a Cellular Network for Quality of Service Assurance," Proc. IEEE Vehicular Technology Conference (VTC) Fall 2003, Orlando, Florida, USA, October 4-9, 2003.
61. "A Wireless Channel Model for Support of Quality of Service," Proc. IEEE Global Communications Conference (GLOBECOM'01), San Antonio, Texas, USA, Nov. 25-29, 2001.
62. "Efficient Bandwidth Allocation and Call Admission Control for VBR Service Using UPC Parameters," Proc. IEEE INFOCOM'99, pp. 1044-1052, New York, USA, Mar. 21-25, 1999.
63. "TCP/IP over ATM-GFR," Proc. IEEE ATM Workshop (ATM'98), pp. 360-367, Fairfax, Virginia, USA, May 26-29, 1998.