

# 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](mailto: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 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

- “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 – 6/30/2019.

- “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 – 7/31/2018.
- “Interdependent Network Responses to WMD: Dynamics Modeling, Impact Analysis, and Adaptive Control Techniques,” (Co-PI), Defense Threat Reduction Agency (DTRA), \$450,000, 8/14/2014 – 8/14/2017.
- “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. P. Brahma, Y. She, S. Li, J. Li, D. Wu, "Reinforced Robust Principal Component Pursuit," accepted by *IEEE Transactions on Neural Networks and Learning Systems*.
2. 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.
3. H. Shan, J. Zhang, X. Cao, X. Li, D. Wu, "Multiple Auxiliaries Assisted Airborne Power Line Detection," accepted by *IEEE Transactions on Industrial Electronics*.
4. J. Li, Y. Zhu, D. Wu, "Practical Distributed Scheduling for QoS-aware Small Cell mmWave Mesh Backhaul Network," accepted by *Ad Hoc Networks*.
5. 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," accepted by *IEEE Transactions on Vehicular Technology*.
6. K. Sun, H. Zhang, D. Wu, H. Zhuang, "MPC-based Delay-Aware Fountain Codes for Real-Time Video Communication," accepted by *IEEE Internet of Things Journal*.
7. Z. Chen, P. Fan, D. Wu, "Joint Power Allocation and Strategy Selection for Half-duplex Relay System," accepted by *IEEE Transactions on Vehicular Technology*.
8. R. Fang, R. Al-Bayaty, D. Wu, "BNB Method for No-Reference Image Quality Assessment," accepted by *IEEE Transactions on Circuits and Systems for Video Technology*.
9. Z. Li, W. Du, Y. Zheng, M. Li, D. Wu, "From Rateless to Hopless," accepted by *IEEE/ACM Transactions on Networking*.
10. 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.
11. 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.
12. 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.
13. H. Zhang, Y. Wen, Q. Huang, D. Wu, "File Transfer between Charging Stations Goes Infrastructure-less: A Code-Delay Tradeoff," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 10, pp. 8682–8695, October 2016.
14. 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.
15. 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.
16. 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.

17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. L. Yang, P. Hao, D. Wu, "Approximating Vector Quantization by Transformation and Scalar Quantization," *IET Communications*, vol. 8, no. 3, pp. 324–334, 2014.



46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. Y. He, Y. She, D. Wu, "Stationary-Sparse Causality Network Learning," *Journal of Machine Learning Research*, vol. 14, pp. 3073–3104, October 2013.
52. 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.
53. Q. Huang, D. Wu, "Flatten a Curved Space by Kernel," *IEEE Signal Processing Magazine*, vol. 30, no. 5, pp. 132–142, September 2013.
54. 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.
55. 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.
56. 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.
57. Y. Hu, D. Wu, "Frequency Shift Filter-Based Multi-carrier Transceiver," *Wireless Communications & Mobile Computing*, vol. 13, no. 6, pp. 539–564, April 2013.
58. 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.
59. 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.
60. 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.

61. B. Sun, D. Wu, "Self-Organizing-Queue Based Clustering," *IEEE Signal Processing Letters*, vol. 19, no. 12, pp. 902–905, December 2012.
62. 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.
63. 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.
64. 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.
65. 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.
66. J. Xu, D. Wu, "Ripplet Transform Type II Transform for Feature Extraction," *IET Image Processing*, vol. 6, no. 4, pp. 374–385, June 2012.
67. 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.
68. 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.
69. 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.
70. 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.
71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
76. 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.

77. 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.
78. 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.
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### **Selected Conference Publications**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.



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12. 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.
13. 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.
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15. 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.
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17. 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.
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20. 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.
21. 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.
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29. 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.
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113. 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.
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116. 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.
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129. 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.
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### Number of Times being Cited for Some of My Publications

From Google Scholar, my H-index is 39 and my total number of citations is 10655. The following was obtained by Google Scholar (<http://scholar.google.com> and typing "Dapeng Wu") on August 10, 2016.

- 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 940 publications.**
- 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 825 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 510 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 311 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 394 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 333 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 258 publications.**

## Patents

- “JOINT FOUNTAIN CODE AND NETWORK CODING FOR MULTIPLE-SOURCE-MULTIPLE-DESTINATION WIRELESS COMMUNICATION,” filed for US patent, U.S. Patent Application No. 62446561, January 16, 2017
- “REGRET BENEFIT RATIO LINK SCHEDULER FOR WIRELESS BACKHAUL WITH DIRECTIONAL ANTENNAS,” filed for US patent, U.S. Patent Application No. 62446558, January 16, 2017
- “METHOD FOR NO-REFERENCE IMAGE QUALITY ASSESSMENT,” filed for US patent, U.S. Patent Application No. 62399985, September 26, 2016
- “METHOD FOR EXPLOITING DIVERSITY WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309823, March 17, 2016.
- “METHOD FOR CONGESTION RELIEF WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309872, March 17, 2016.
- “A SYSTEM FOR LIVE VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309069, March 16, 2016.
- “A SYSTEM FOR VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309023, March 16, 2016.
- “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.
- “A JOINT FOUNTAIN CODING AND NETWORK CODING APPROACH TO LOSS-TOLERANT INFORMATION SPREADING,” filed for US patent, U.S. Patent Application No. 62035267, August 8, 2014. International Patent Application No.: PCT/US2015/044333, August 15, 2015.

- “Social Networking Reducing Peak Power Consumption in Smart Grid,” filed for US patent, Application No. 14663212, March 19, 2015.
- “Adaptive Quantization Using Piecewise Companding,” 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 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.  
Enrollment: 70 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.  
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 (24 advisees)

- 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. Jieyan 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)

- Tong Shao, Department of Electrical & Computer Engineering, University of Florida *Aug. 2016 – present*
  - Chiranjib Sur, Department of Computer & Information Science & Engineering, University of Florida *Aug. 2015 – present*
  - Qi Cai, Department of Electrical & Computer Engineering, University of Florida *Aug. 2014 – present*
  - Richard Al-Bayaty, Department of Electrical & Computer Engineering, University of Florida *June 2014 – present*
  - Jiade Li, Department of Electrical & Computer Engineering, University of Florida *Aug. 2013 – present*
  - Yun Zhu, Department of Electrical & Computer Engineering, University of Florida *Aug. 2013 – present*
  - James Baril, Department of Electrical & Computer Engineering, University of Florida *Aug. 2012 – present*
  - Manu Chandran, Department of Electrical & Computer Engineering, University of Florida *Aug. 2012 – present*
  - Qiuyuan Huang, Department of Electrical & Computer Engineering, University of Florida *Aug. 2011 – present*
- Ph.D. Dissertation Committees (completed)
    - Ewaldo Eder Carvalho Santana Junior, Department of Electrical & Computer Engineering, University of Florida *January 2017* Dissertation title: A FRAMEWORK FOR PATTERN CONSOLIDATION IN COGNITIVE ARCHITECTURES.
    - Kaikai Liu, Department of Electrical & Computer Engineering, University of Florida *July 2015* Dissertation title: Towards Smart Life via Mobile Sensing Systems.
    - Xiang Mao, Department of Electrical & Computer Engineering, University of Florida *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 *July 2014* Dissertation title: Privacy Preserving Protocol Design in Distributed Computing Environments.
    - Savvas Singh, Department of Electrical & Computer Engineering, University of Florida *July 2014* Dissertation title: Automatic Assessment of Disordered Speech Intelligibility.
    - Xiaoyuan Li, Department of Electrical & Computer Engineering, University of Florida *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 *April 2013* Dissertation title: Kalman Filtering in Reproducing Kernel Hilbert Spaces.
    - Bilal Fadlallah, Department of Electrical & Computer Engineering, University of Florida *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  
*December 2012* Dissertation title: Performance Analysis of a Cognitive Radio Network Using Network Calculus.
- Chi Zhang, Department of Electrical & Computer Engineering, University of Florida *July 2011*  
Dissertation title: Security and Network Performance for Wireless Ad Hoc Networks.
- Qing Yang, Department of Electrical & Computer Engineering, University of Florida *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)
    - David Ojika, Department of Electrical & Computer Engineering, University of Florida  
*Oct. 2015 – present*
    - Scott Nivison, Department of Electrical & Computer Engineering, University of Florida  
*Oct. 2015 – present*
    - Zheng Cao, Department of Electrical & Computer Engineering, University of Florida  
*Oct. 2015 – present*
    - Eder Santana, Department of Electrical & Computer Engineering, University of Florida  
*Oct. 2015 – present*

- Ryan Burt, Department of Electrical & Computer Engineering, University of Florida *Oct. 2015 – present*
- Xianqi Li, Department of Mathematics, University of Florida *Aug. 2014 – present*
- Thesis Master Students
  - Ishan Patwa, Department of Electrical & Computer Engineering, University of Florida *Oct. 2014 – present*
- M.S. Thesis Committees
  - Ning Wang, Department of Mechanical & Aerospace , 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. Yong Liu, Department of Electrical & Computer Engineering, University of Florida *September 2016 – present*
- 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. 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-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 IEEE Transactions on Communications *June 2016–present*
- Senior Editor for IEEE Signal Processing Magazine *Jan. 2015–present*
- Associate Editor for IEEE Transactions on Signal and Information Processing over Networks *Nov. 2014–present*
- 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, InderScience, *Sept. 2004–Dec. 2013*
- Editor for SigPort, IEEE Signal Processing Society, *April 2016–present*
- 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
  - Conference Board Liaison for IEEE Global Conference on Signal and Information Processing (GlobalSIP), Montreal, Canada, November 14–16, 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 Jos, CA, USA, October 25, 2004.
- Member of technical program committees for international conferences
  - 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 (WMSN05), 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 Jos, 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
- 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. “Why Deep Learning Works?” Keynote Speech, International Conference on Cloud Computing and Big Data (CloudCom-Asia), Hong Kong, June 7–9, 2016.
2. “Multimedia over Future Internet: Challenges and Opportunities,” Keynote Speech, International Conference on Future Internet Technologies (CFI), Seoul, Korea, June 8–10, 2015.
3. “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.
4. “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. “Storage-Retrieval-Repair Cost Tradeoff in Network Coded Distributed Storage Systems,” Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, December 23, 2016.
2. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Beijing Jiaotong University, Beijing, P. R. China, December 22, 2016.
3. “Image Quality Assessment,” Invited Seminar, Beijing Jiaotong University, Beijing, P. R. China, December 21, 2016.
4. “Unification of Deep Learning and Reasoning,” Invited Seminar, Beijing Jiaotong University, Beijing, P. R. China, December 20, 2016.
5. “Why Deep Learning Works?” Invited Seminar, Beijing Jiaotong University, Beijing, P. R. China, December 19, 2016.
6. “Multimedia over Future Internet: Challenges and Opportunities,” Invited Seminar, Shenzhen University, Shenzhen, Guangdong, P. R. China, December 16, 2016.
7. “Why Deep Learning Works?” Invited Seminar, Guangdong University of Technology, Guangzhou, Guangdong, P. R. China, December 13, 2016.
8. “Why Deep Learning Works?” Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, November 30, 2016.
9. “Why Deep Learning Works?” Invited Seminar, Sichuan University, Chengdu, Sichuan, P. R. China, November 29, 2016.
10. “Multimedia over Future Internet: Challenges and Opportunities,” Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, October 28, 2016.
11. “Multimedia over Future Internet: Challenges and Opportunities,” Invited Seminar, South University of Science and Technology of China, Shenzhen, Guangdong, P. R. China, October 27, 2016.

12. “Multimedia over Future Internet: Challenges and Opportunities,” Invited Seminar, Guangdong University of Technology, Guangzhou, Guangdong, P. R. China, October 27, 2016.
13. “Unification of Deep Learning and Reasoning,” Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, October 24, 2016.
14. “Why Deep Learning Works?” Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, July 29, 2016.
15. “Trickle Irrigation: Congestion Relief for Communication with Network Coding,” Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, July 4, 2016.
16. “Why Deep Learning Works?” Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, July 1, 2016.
17. “Why Deep Learning Works?” Invited Seminar, Tongji University, Shanghai, P. R. China, June 30, 2016.
18. “Why Deep Learning Works?” Invited Seminar, Shanghai University, Shanghai, P. R. China, June 29, 2016.
19. “Why Deep Learning Works?” Invited Seminar, Fuzhou University, Fuzhou, Fujian, P. R. China, June 27, 2016.
20. “Trickle Irrigation: Congestion Relief for Communication with Network Coding,” Invited Seminar, Chinese University of Hong Kong, Hong Kong, June 23, 2016.
21. “Why Deep Learning Works?” Invited Seminar, City University of Hong Kong, Hong Kong, June 20, 2016.
22. “Trickle Irrigation: Congestion Relief for Communication with Network Coding,” Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, June 10, 2016.
23. “Trickle Irrigation: Congestion Relief for Communication with Network Coding,” Invited Seminar, Tsinghua University, Beijing, P. R. China, April 25, 2016.
24. “Multimedia over Future Internet: Challenges and Opportunities,” Invited Seminar, Donghua University, Shanghai, P. R. China, March 25, 2016.
25. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading” Invited Seminar, South University of Science and Technology of China, Shenzhen, Guangdong, P. R. China, December 31, 2015.
26. “Why Deep Learning Works?” Invited Seminar, Shenzhen University, Shenzhen, Guangdong, P. R. China, December 30, 2015.
27. “Why Deep Learning Works?” Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, December 29, 2015.
28. “Why Deep Learning Works?” Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, December 28, 2015.
29. “Why Deep Learning Works?” Invited Seminar, Beihang University, Beijing, P. R. China, December 21, 2015.

30. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Beijing Jiaotong University, Beijing, P. R. China, September 29, 2015.
31. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, July 17, 2015.
32. "FUN Coding: Design and Analysis," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, July 10, 2015.
33. "Image Quality Assessment," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, July 9, 2015.
34. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, July 9, 2015.
35. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Southwest Jiaotong University, Chengdu, Sichuan, P. R. China, July 8, 2015.
36. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, July 7, 2015.
37. "Image Quality Assessment," Invited Seminar, Wuhan University, Wuhan, Hubei, P. R. China, July 6, 2015.
38. "FUN Coding: Design and Analysis," Invited Seminar, Chinese University of Hong Kong, Hong Kong, June 30, 2015.
39. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Hong Kong Polytechnic University, Hong Kong, June 24, 2015.
40. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, City University of Hong Kong, Hong Kong, June 22, 2015.
41. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, June 12, 2015.
42. "Network Science and Its Application in Wireless Networking," Invited Seminar, Kyung Hee University, Yongin-si, South Korea, June 11, 2015.
43. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Yonsei University, Seoul, South Korea, June 10, 2015.
44. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Pohang University of Science and Technology, Pohang, South Korea, June 9, 2015.
45. "Image Quality Assessment," Invited Seminar, Dalian University of Technology, Dalian, Liaoning, P. R. China, June 4, 2015.
46. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Dalian University of Technology, Dalian, Liaoning, P. R. China, May 27, 2015.

47. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Civil Aviation University of China, Tianjin, P. R. China, May 22, 2015.
48. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, May 22, 2015.
49. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Beihang University, Beijing, P. R. China, May 21, 2015.
50. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Peking University, Beijing, P. R. China, May 20, 2015.
51. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 19, 2015.
52. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Nanjing University, Nanjing, P. R. China, May 18, 2015.
53. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Southeast University, Nanjing, P. R. China, May 14, 2015.
54. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, Nanjing University of Posts and Telecommunications, Nanjing, P. R. China, May 13, 2015.
55. "Multimedia over Future Internet: Challenges and Opportunities," Invited Seminar, GreenOrbs Lab, Wu Xi, Jiangsu, P. R. China, May 12, 2015.
56. "Image Quality Assessment," Invited Seminar, Shanghai University, Shanghai, P. R. China, May 11, 2015.
57. "FUN Coding: Design and Analysis," Invited Seminar, Tongji University, Shanghai, P. R. China, May 8, 2015.
58. "Image Quality Assessment," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, May 7, 2015.
59. "Image Quality Assessment," Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, May 4, 2015.
60. "Network Science and Its Application in Wireless Networking," Invited Seminar, Georgia State University, Atlanta, GA, USA, Dec. 4, 2014.
61. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, July 18, 2014.
62. "Ripplelet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, July 18, 2014.
63. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Nanyang Technological University, Singapore, July 10, 2014.
64. "Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading," Invited Seminar, Graduate School, Tsinghua University, Shenzhen, China, June 30, 2014.



65. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Huawei, Shenzhen, China, June 27, 2014.
66. “How to Write Winning Grant Proposal: 16 Tips,” Invited Seminar, Hong Kong Polytechnic University, Hong Kong, June 25, 2014.
67. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Chinese University of Hong Kong, Hong Kong, June 24, 2014.
68. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Hong Kong Polytechnic University, Hong Kong, June 23, 2014.
69. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, City University of Hong Kong, Hong Kong, June 18, 2014.
70. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, June 16, 2014.
71. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Nanjing University of Posts and Telecommunications, Nanjing, P. R. China, June 13, 2014.
72. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, June 11, 2014.
73. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, June 9, 2014.
74. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, June 5, 2014.
75. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Tongji University, Shanghai, P. R. China, June 4, 2014.
76. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, GreenOrbs Lab, Wu Xi, Jiangsu, P. R. China, June 3, 2014.
77. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Beihang University, Beijing, P. R. China, May 29, 2014.
78. “Just FUN: A Joint Fountain Coding and Network Coding Approach to Loss-Tolerant Information Spreading,” Invited Seminar, Tsinghua University, Beijing, P. R. China, May 28, 2014.
79. “Network Science and Its Application in Wireless Networking,” Invited Seminar, University of North Texas, Denton, TX, USA, Nov. 8, 2013.
80. “Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing,” Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, July 11, 2013.
81. “Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing,” Invited Seminar, GreenOrbs Lab, Wu Xi, Jiangsu, P. R. China, July 5, 2013.

82. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Beihang University, Beijing, P. R. China, July 3, 2013.
83. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, July 2, 2013.
84. "Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," Invited Seminar, MSRA, Beijing, P. R. China, July 1, 2013.
85. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, Nanjing University of Posts and Telecommunications, Nanjing, P. R. China, June 25, 2013.
86. "Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," Invited Seminar, Zhejiang University, Hangzhou, P. R. China, June 24, 2013.
87. "Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, June 19, 2013.
88. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, June 14, 2013.
89. "Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, June 13, 2013.
90. "Network Science and Its Application in Wireless Networking," Invited Seminar, Nanyang Technological University, Singapore, June 10, 2013.
91. "Network Science and Its Application in Wireless Networking," Invited Seminar, Hong Kong Polytechnic University, Hong Kong, May 31, 2013.
92. "Network Science and Its Application in Wireless Networking," Invited Seminar, Chinese University of Hong Kong, Hong Kong, May 30, 2013.
93. "Network Science and Its Application in Wireless Networking," Invited Seminar, City University of Hong Kong, Hong Kong, May 29, 2013.
94. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, May 27, 2013.
95. "Network Science and Its Application in Wireless Networking," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, May 17, 2013.
96. "Energy-Efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, May 16, 2013.
97. "Network Science and Its Application in Wireless Networking," Invited Seminar, Tongji University, Shanghai, P. R. China, May 14, 2013.
98. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, May 13, 2013.

99. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 9, 2013.
100. "Network Science and Its Application in Wireless Networking," Invited Seminar, Norwegian University of Science and Technology, Trondheim, Norway, December 18, 2012.
101. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, July 12, 2012.
102. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Fudan University, Shanghai, P. R. China, July 11, 2012.
103. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Tongji University, Shanghai, P. R. China, July 11, 2012.
104. "Network Science and Its Application in Wireless Networking," Invited Seminar, GreenOrbs Lab, Wu Xi, Jiangsu, P. R. China, July 10, 2012.
105. "Multi-view Image Processing: Current State of the Art, Challenges, and Future Directions," Invited Seminar, Beihang University, Beijing, P. R. China, July 9, 2012.
106. "Identification of Network Dynamics and Its Applications," Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, July 6, 2012.
107. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, July 5, 2012.
108. "Video Distortion Analysis and System Design for Wireless Video Communication," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, July 2, 2012.
109. "Objective and Secure Reputation-Based Incentive Scheme for Ad-Hoc Networks," Invited Seminar, Beihang University, Beijing, P. R. China, June 29, 2012.
110. "Network Science and Its Application in Wireless Networking," Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, June 28, 2012.
111. "Identification of Network Dynamics and Its Applications," Invited Seminar, Zhejiang University, Hangzhou, P. R. China, June 12, 2012.
112. "Network Science and Its Application in Wireless Networking," Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, June 11, 2012.
113. "Network Science and Its Application in Wireless Networking," Invited Seminar, Xi'an Jiaotong University, Xi'an, Shaanxi, June 7, 2012.
114. "Network Science and Its Application in Wireless Networking," Invited Seminar, University of Electronic Science and Technology of China, Chengdu, Sichuan, P. R. China, June 6, 2012.
115. "Network Science and Its Application in Wireless Networking," Invited Seminar, Zhongshan University, Guangzhou, Guangdong, P. R. China, May 31, 2012.
116. "Identification of Network Dynamics and Its Applications," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, May 28, 2012.

117. "Network Science and Its Application in Wireless Networking," Invited Seminar, Yonsei University, Seoul, South Korea, May 24, 2012.
118. "Network Science and Its Application in Wireless Networking," Invited Seminar, Pohang University of Science and Technology, Pohang, South Korea, May 23, 2012.
119. "Network Science and Its Application in Wireless Networking," Invited Seminar, Seoul National University, Seoul, South Korea, May 22, 2012.
120. "Network Science and Its Application in Wireless Networking," Invited Seminar, University of Delaware, Newark, Delaware, USA, November 11, 2011.
121. "Network Science and Its Application in Wireless Networking," Invited Seminar, Wayne State University, Detroit, Michigan, USA, October 4, 2011.
122. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Beihang University, Beijing, P. R. China, May 5, 2011.
123. "Network Science and Its Application in Wireless Networking," Invited Seminar, Beijing University of Posts and Telecommunications, Beijing, P. R. China, May 4, 2011.
124. "Network Science and Its Application in Wireless Networking," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, April 29, 2011.
125. "Network Science and Its Application in Wireless Networking," Invited Seminar, Tsinghua University, Beijing, P. R. China, April 27, 2011.
126. "Network Science and Its Application in Wireless Networking," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, April 18, 2011.
127. "Network Science and Its Application in Wireless Networking," Invited Seminar, Zhejiang University, Hangzhou, P. R. China, April 15, 2011.
128. "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, April 14, 2011.
129. "Network Science and Its Application in Wireless Networking," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, April 12, 2011.
130. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Shanghai Jiaotong University, Shanghai, P. R. China, April 11, 2011.
131. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Beijing Institute of Technology, Beijing, P. R. China, April 6, 2011.
132. "Network Science and Its Application in Wireless Networking," Invited Seminar, University of Texas, Dallas, Texas, January 28, 2011.
133. "Network Science and Its Application in Wireless Networking," Invited Seminar, Umea University of Sweden, Umea, Sweden, December 14, 2010.
134. "Network Science and Its Application in Wireless Networking," Invited Seminar, University of Southern California, Los Angeles, California, USA, November 12, 2010.

135. "Network Science and Its Application in Wireless Networking," CSE Distinguished Speaker Colloquium Series, University of Nebraska, Lincoln, Nebraska, USA, October 15, 2010.
136. "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, July 23, 2010.
137. "Network Science and Its Application in Wireless Networking," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, July 23, 2010.
138. "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," Invited Seminar, Tsinghua University, Beijing, P. R. China, July 22, 2010.
139. "Network Science and Its Application in Wireless Networking," Invited Seminar, Beihang University, Beijing, P. R. China, July 21, 2010.
140. "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," Invited Seminar, Peking University, Beijing, P. R. China, July 20, 2010.
141. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, July 19, 2010.
142. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Xidian University, Xi'an, P. R. China, July 16, 2010.
143. "Gamma Rate Theory for Causal Rate Control in Source Coding and Video Coding," Invited Seminar, University of Science and Technology of China, Hefei, Anhui, P. R. China, July 10, 2010.
144. "Network Science and Its Application in Wireless Networking," Invited Seminar, Tsinghua University, Beijing, P. R. China, July 9, 2010.
145. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Illinois Institute of Technology, Chicago, IL, April 30, 2010.
146. "Resource-Constrained Theories, Coding Techniques, and Architecture for Wireless Video," Invited Seminar, Intel Labs, Santa Clara, CA, USA, April 6, 2010.
147. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, University at Buffalo, The State University of New York, Buffalo, NY, March 26, 2010.
148. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, Montana State University, Bozeman, MT, September 18, 2009.
149. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, The Hong Kong University of Science & Technology, Hong Kong, May 21, 2009.
150. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, The Chinese University of Hong Kong, Hong Kong, May 20, 2009.
151. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, The University of Hong Kong, Hong Kong, May 15, 2009.
152. "RED Theory for QoS Provisioning in Wireless Networks," Invited Seminar, The Hong Kong Polytechnic University, Hong Kong, May 13, 2009.

153. "RED Theory and Video Distortion Analysis for Wireless Multimedia Communication," Invited Seminar, Intel Labs, Portland, Oregon, USA, January 19, 2009.
154. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Samsung Information Systems America, CA, USA, October 16, 2008.
155. "Speaker Recognition and Authorship Identification," Invited Seminar, Narus Inc., CA, USA, October 16, 2008.
156. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Purdue University, West Lafayette, IN, USA, July 21, 2008.
157. "A Target Detection Scheme for VHF SAR Ground Surveillance," Invited Seminar, Air Force Research Laboratory, Dayton, OH, USA, July 16, 2008.
158. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Ohio State University, Columbus, OH, USA, July 11, 2008.
159. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Beihang University, Beijing, P. R. China, May 28, 2008.
160. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Beijing University of Posts and Telecommunications, Beijing, P. R. China, May 27, 2008.
161. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Huazhong University of Science and Technology, Wuhan, Hubei, P. R. China, May 23, 2008.
162. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 16, 2008.
163. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, May 15, 2008.
164. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 14, 2008.
165. "Motion-Segmentation-Based Change Detection," Invited Seminar, Beijing University, Beijing, P. R. China, May 14, 2008.
166. "Power-Constrained Multimedia Communication over Wireless Networks," Invited Seminar, Intel Labs, Portland, Oregon, USA, April 28, 2008.
167. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 17, 2007.
168. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 16, 2007.
169. "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.
170. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Beijing University, Beijing, P. R. China, August 15, 2007.

171. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Intel China Research Center, Beijing, P. R. China, August 15, 2007.
172. "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.
173. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 13, 2007.
174. "Ripplet: a New Transform for Feature Extraction and Image Representation," Invited Seminar, Thomson Corporate Research, Beijing, P. R. China, August 10, 2007.
175. "Motion-Segmentation-Based Change Detection," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.
176. "Robust Feature-based Object Tracking," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.
177. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Intel Labs, Portland, Oregon, USA, July 23, 2007.
178. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Toledo, Toledo, Ohio, USA, July 7, 2007.
179. "Feature-based Object Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 27, 2007.
180. "Motion-Segmentation-Based Approach for Change Detection, Image Registration and Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 14, 2007.
181. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Maryland, College Park, USA, May 2, 2007.
182. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar (CS Colloquium), University of Illinois, Urbana-Champaign, USA, November 6, 2006.
183. "Change Detection: Current State of the Art and Future Directions," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, September 21, 2006.
184. "Multi-view Image Processing: Current State of the Art, Challenges, and Future Directions," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 18, 2006.
185. "Channel Coding: Theory and Applications," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 17, 2006.
186. "Distributed Video Coding for Sensor Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 16, 2006.
187. "Distributed Video Coding for Sensor Networks," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 11, 2006.
188. "Distributed Video Coding for Sensor Networks," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, August 4, 2006.

189. "Uplink Medium Access Control for WLANs with Multi-beam Access Point," Invited Seminar, Intel China Research Center, Beijing, P. R. China, July 28, 2006.
190. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Intel Labs, Portland, Oregon, USA, May 12, 2006.
191. "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.
192. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, HP Labs, Palo Alto, CA, USA, May 10, 2006.
193. "Detecting Distributed Denial-of-Service Attacks Using Pattern Classification Techniques," Invited Seminar, Narus Inc., CA, USA, May 10, 2006.
194. "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.
195. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of California, Los Angeles, USA, May 8, 2006.
196. "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.
197. "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.
198. "Streaming Video over the Internet," Invited Seminar, Intel China Research Center, Beijing, P. R. China, December 26, 2005.
199. "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," Invited Seminar, Tsinghua University, Beijing, P. R. China, December 22, 2005.
200. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Peking University, Beijing, P. R. China, December 21, 2005.
201. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of Missouri, Columbia, MO, USA, November 28, 2005.
202. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Polytechnic University, Brooklyn, NY, USA, October 17, 2005.
203. "Secure and Scalable Multimedia Streaming," Invited Seminar, IBM T. J. Watson Research Center, Hawthorne, NY, USA, October 14, 2005.
204. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Columbia University, New York, NY, USA, October 13, 2005.
205. "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.
206. "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.



207. "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.
208. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 30, 2005.
209. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Yonsei University, Seoul, Korea, May 19, 2005.
210. "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.
211. "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.
212. "Streaming Video over the Internet," Invited Seminar, SHARP Labs of America, Camas, Washington, USA, March 5, 2004.
213. "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.
214. "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. "Enhanced Routing Protocol for Fast Flying UAV Network," *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, Guangdong, China, December 14–16, 2016.
2. "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.
3. "QoS-aware Scheduling for Small Cell Millimeter Wave Mesh Backhaul," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
4. "MPC-based Delay-Aware Fountain Codes for Live Video Streaming," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
5. "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.
6. "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.
7. "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.
8. "Self-Organizing-Queue Based Clustering," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
9. "Smoothing the Energy Consumption: Peak Demand Reduction in Smart Grid," *IEEE INFOCOM 2013*, Turin, Italy, April 14 – 19, 2013.
10. "Identification of Network Dynamics and Its Applications," AFOSR Sensing Surveillance Navigation Program Review Workshop 2011, Shalimar, FL, USA, June 14 – 15, 2011.
11. "Secrecy Capacity with Leakage Constraints in Fading Channels," *IEEE Global Telecommunications Conference (Globecom 2010)*, Miami, FL, USA, December 6 – 10, 2010.
12. "Ripplet-II Transform for Feature Extraction," *SPIE Visual Communications and Image Processing (VCIP 2010)*, Huang Shan, An Hui, China, July 11–14, 2010.
13. "Experimental study on GMM-based speaker recognition," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
14. "Depth-based image registration," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.

15. "Advanced Techniques for Scene Analysis," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
16. "Diversity Combining Approach for Tracking of Multiple Objects under Partial Occlusion," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
17. "Study of video distortion for real-time video transmission over wireless channels," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
18. "Identifying hidden voice and video streams," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
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