

RESUME

Dapeng “Oliver” Wu

Contact Information

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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

Artificial intelligence, data science, computer vision, signal processing, communication, network science, biomedical engineering

Professional Experience

- *Chair Professor* (with tenure), Department of Computer Science, City University of Hong Kong
June 2022–present
- *Professor* (with tenure), Department of Electrical & Computer Engineering, University of Florida, Gainesville, FL *Aug. 2011–May 2022*
- *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

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

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

- **IEEE CSVT Transactions Best Paper Award, 2001**
D. Wu, et al., “On End-to-End Architecture for Transporting MPEG-4 Video over the Internet,” *IEEE Transactions on Circuits and Systems for Video Technology*, Sept. 2000.
- **Certificate of Appreciation**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC’2000)
Citation:
The PIMRC’2000 organizing committee recognises and thanks **D. Wu** for the excellent invited paper presentation at PIMRC’2000 on “Scalable Video Transport over Wireless IP Networks” held at the Hilton London Metropole Hotel, London, UK, Sept. 18–21, 2000.

Grants

- “Medical Image Enhancement and AI-assisted Adaptive Radiation Therapy,” (PI), Mayo Clinic, \$159,183, 8/16/2021 – 8/15/2024.
- “Collaborative Research: SHF: Medium: Heterogeneous Architecture for Collaborative Machine Learning,” (Lead PI), National Science Foundation (NSF), \$1,208,000, 7/15/2021 – 6/30/2024.
- “Linking within- and between-host dynamics in tracking recent Mycobacterium tuberculosis transmission,” (Co-PI), Clinical and Translational Science Institute, University of Florida, \$50,000, 7/1/2021 – 6/30/2022.
- “Protein-Ligand Binding Free Energy Estimation via Deep Learning,” (Co-PI), Informatics Institute, University of Florida, \$41,000, 6/1/2021 – 6/1/2022.
- “CRISPR Finder by Neural-symbolic AI in Metagenomes,” (PI), University of Florida, \$10,000, 1/1/2021 – 12/31/2021.
- “Deep Learning for Video Coding,” (PI), Facebook, \$240,000, 10/1/2020 – 9/30/2022.
- “Collaborative Research: SHF: Small: Decentralized Edge Computing Platform for Privacy-Preserving Mobile Crowdsensing,” (PI), National Science Foundation (NSF), \$171,847, 7/15/2020 – 6/30/2023.
- “Quasi-Supervised-Learning for SAR Image Recognition,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2020 – 6/30/2021.
- “Robust PCA with Outlier Mitigation,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2020 – 6/30/2021.
- “Forecasting trajectories of HIV transmission networks with a novel phylodynamic and deep learning framework,” (Co-PI), National Institutes of Health (NIH), \$2,809,658, 5/1/2020 – 4/30/2024.
- “Deep Learning with Local Differential Privacy,” (PI), University of South Florida, \$37,500, 7/1/2019 – 12/30/2020.
- “SaTC: CORE: Small: FIRMA: Personalized Cross-Layer Continuous Authentication,” (co-PI), National Science Foundation (NSF), \$516,000, 9/15/2018 – 8/31/2022.
- “TPR Learning: a Symbolic Neural Approach for Vision Language Intelligence,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$100,000, 7/1/2018 – 6/30/2020.

- “Intelligent Assistant Platform,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$150,000, 7/1/2018 – 6/30/2022.
- “DeepSLAM: Object Detection, Re-identification and Prediction with Implicit Mapping,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$200,000, 7/1/2018 – 6/30/2022.
- “FedSec: Federated Learning Security Attacks and Defenses,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$100,000, 7/1/2018 – 6/30/2020.
- “Machine-Learning-Enabled Video Coding Strategy for Object Detection,” (PI), National Science Foundation (NSF) I/UCRC Center for Big Learning, \$50,000, 7/1/2018 – 6/30/2019.
- “I/UCRC Center for Big Learning,” (PI), National Science Foundation (NSF), \$750,000, 2/1/2018 – 1/31/2023.
- “Planning Proposal: I/UCRC Center for Big Learning,” (Senior personnel), National Science Foundation (NSF), \$15,000, 9/1/2016 – 8/31/2017.
- “Human Detection and Identification over a Network of Surveillance Cameras,” (PI), Accuware, \$75,000, 2/1/2016 – 1/31/2017.
- “CIF:Small:Collaborative Research: Scalable Nonconvex Optimization with Statistical Guarantees for Information Computing in High Dimensions,” (PI), National Science Foundation (NSF), \$215,000, 7/1/2016 – 6/30/2020.
- “Advanced Techniques for 5G Wireless Networks,” (PI), Huawei Technologies, \$130,000, 5/1/2015 – 9/15/2016.
- “Carry Small Enjoy Large: a Mobile Cloud Computing Approach,” (PI), National Science Foundation (NSF), \$308,000, 8/1/2015 – 7/31/2019.
- “Interdependent Network Responses to WMD: Dynamics Modeling, Impact Analysis, and Adaptive Control Techniques,” (Co-PI), Defense Threat Reduction Agency (DTRA), \$750,000, 8/14/2014 – 2/29/2020.
- “MRI: Acquisition of GatorCloud: Enabling High-Impact Scientific Research and Collaboration via Software Defined Networks and Cloud Services,” (Senior Personnel), National Science Foundation (NSF), \$1,172,354, 10/1/2012 – 9/30/2014. In addition, U.F. provides cost sharing in the amount of \$502,437. Total: \$1,674,791.
- “NeTS:Small: QoS Assured Multimedia Communication over Non-stationary Wireless Channels,” (PI), National Science Foundation (NSF), \$383,143, 8/16/2011 – 8/15/2016.
- “CIF:Small:Collaborative Research: Compressed Sensing for Coherent Designs under Gaussian/Non-Gaussian Noise,” (PI), National Science Foundation (NSF), \$237,225, 7/1/2011 – 6/30/2015.
- “Resource-Constrained Wireless Video Communication,” (PI), National Science Foundation (NSF), \$378,000, 9/15/2010 – 8/31/2014.
- “The Rural Veterans Tele-Rehabilitation Project,” (Co-PI), U.S. Department of Veterans Affairs, \$2.35 million, 8/09 – 7/11.

- AFOSR Young Investigator Program (YIP) Award, “Joint Information Theoretic and Differential Geometrical Approach for Robust Automated Target Recognition,” (PI), Air Force Office of Scientific Research (AFOSR), \$300,000, 1/1/09 – 11/30/11.
- ONR Young Investigator Program (YIP) Award, “Delay-Assured Ad Hoc Networking,” (PI), Office of Naval Research (ONR), \$300,000, 5/31/08 – 9/30/11.
- Defense University Research Instrumentation Program (DURIP) Award, “Distributed Collaborative Computation for Research on Automatic Target Recognition,” (PI), Air Force Office of Scientific Research (AFOSR), \$97,864, 5/15/2008 – 5/14/2009.
- NSF CAREER Award, “CAREER: Delay-Constrained Wireless Networking: Where Shannon Meets Erlang,” (PI), National Science Foundation (NSF), \$464,000, 9/07 – 8/13.
- “Advanced Techniques for Scene Analysis,” (PI), Air Force Research Laboratory, Wright-Patterson AFB, Dayton, Ohio, \$200,000, 6/06 – 9/10 (52 months).
- “SIRG: COLLABORATIVE RESEARCH: DeerNet-Wireless Sensor Networking for Wildlife Behavior Analysis and Interaction Modeling,” (Co-PI), National Science Foundation (NSF), \$1.05 million, 9/05 – 9/09.
- “Vision-Based Control of Agile, Autonomous Small and Micro Flight Vehicles in Urban Environments,” (Co-PI), Air Force Office of Scientific Research (AFOSR), \$4.7 million, 9/04 – 1/06.
- “Performance Improvement of Wireless Communication Technologies under Jamming/Interference,” (PI), Cyber Technology Research Foundation, \$150,000, 12/07 – 11/10.
- “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” (PI), Intel, \$153,000, 4/07 – 11/10.
- Equipment donation for “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” (PI), Intel, \$3,966, 2007.
- Gift from Stretch, Inc., “Multimedia Wireless Networking,” (PI), \$37,500, 2006 – 2007.
- “Network Traffic Analysis,” (PI), Narus, Inc., \$230,000, 2005–2012.
- 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. T. Qiu, L. Zhang, N. Chen, S. Zhang, W. Liu, D. Wu, "Born This Way: A Self-Organizing Evolution Scheme with Motif for Internet of Things Robustness," accepted by *IEEE/ACM Transactions on Networking*.
2. Z. Zhang, M. Huang, Z. Jiang, Y. Chang, K. Lu, Fang-Fang Yin, P. Tran, D. Wu, C. Beltran, L. Ren, "Patient-specific deep learning model to enhance 4D-CBCT Image for radiomics analysis," accepted by *Physics in Medicine and Biology*.
3. X. Yuan., L. Ding, L. Zhang, X. Li, D. Wu, "ES Attack: Model Stealing against Deep Neural Networks without Data Hurdles," accepted by *IEEE Transactions on Emerging Topics in Computational Intelligence*.
4. X. Zhu, T. Qiu, W. Qu, X. Zhou, Y. Wang, D. Wu, "Path Planning for Adaptive CSI Map Construction with A3C in Dynamic Environments," accepted by *IEEE Transactions on Mobile Computing*.
5. Z. Zheng, G. An, S. Cao, D. Wu, Q. Ruan, "Collaborative and Multi-Level Feature Selection Network for Action Recognition," accepted by *IEEE Transactions on Neural Networks and Learning Systems*.
6. K. Gao, C. Xu, X. Ji, J. Qin, S. Yang, L. Zhong, D. Wu, "Freshness-Aware Age Optimization for Multipath TCP Over Software Defined Networks," accepted by *IEEE Transactions on Network Science and Engineering*.
7. X. Zhu, T. Qiu, W. Qu, M. Atiquzzaman, D. Wu, "BLS-Location: A Wireless Fingerprint Localization Algorithm Based on Broad Learning," accepted by *IEEE Transactions on Mobile Computing*.

8. X. Qu, Z. Zou, X. Su, P. Zhou, W. Wei, S. Wen, D. Wu, "Attend to Where and When: Cascaded Attention Network for Facial Expression Recognition," accepted by *IEEE Transactions on Emerging Topics in Computational Intelligence*.
9. J. Zhang, H. Huang, G. Min, W. Miao, D. Wu, "Social-Aware Routing in Mobile Opportunistic Networks," accepted by *IEEE Wireless Communications Magazine*.
10. E. Guo, Z. Chen, Y. Zhou, D. Wu, "Unsupervised Learning of Depth and Camera Pose with Feature Map Warping," accepted by *Sensors*.
11. Q. Cai, Z. Chen, D. Wu, S. Liu, X. Li, "A Novel Video Coding Strategy in HEVC for Object Detection," accepted by *IEEE Transactions on Circuits and Systems for Video Technology*.
12. J. Liu, X. Song, Y. Zhou, X. Peng, Y. Zhang, P. Liu, D. Wu, C. Zhu, "Deep Anomaly Detection in Packet Payload," accepted by *Neurocomputing*.
13. N. Chen, T. Qiu, M. Daneshmand, D. Wu, "Robust Networking: Dynamic Topology Evolution Learning for Internet of Things," accepted by *ACM Transactions on Sensor Networks*.
14. W. Du, A. Li, P. Zhou, B. Niu, D. Wu, "PrivacyEye: A Privacy-Preserving and Computationally Efficient Deep Learning-based Mobile Video Analytics System," accepted by *IEEE Transactions on Mobile Computing*.
15. H. Wu, W. Du, P. Gong, D. Wu, "CPU: Cross-Rack-Aware Pipelining Update for Erasure-Coded Storage," accepted by *IEEE Transactions on Cloud Computing*.
16. G. An, Z. Zheng, D. Wu, W. Zhou, "Deep spectral feature pyramid in the frequency domain for long-term action recognition," accepted by *Journal of Visual Communication and Image Representation*.
17. Z. Zhao, Q. Sun, H. Yang, H. Qiao, Z. Wang, D. Wu, "Compression Artifacts Reduction by Improved Generative Adversarial Networks," accepted by *EURASIP Journal on Image and Video Processing*.
18. C. Liu, Y. Wang, C. Piao, Z. Dai, Y. Yuan, G. Wang, D. Wu, "Time-Aware Location Prediction by Convolutional Area-of-Interest Modeling and Memory-Augmented Attentive LSTM," *IEEE Transactions on Knowledge and Data Engineering*, vol. 34, no. 5, pp. 2472–2484, May 2022.
19. L. Na, Y. Liu, L. Zhao, D. Wu, Y. Wang, "An Adaptive UAV Deployment Scheme for Emergency Networking," *IEEE Transactions on Wireless Communications*, vol. 21, no. 4, pp. 2383–2398, April 2022.
20. X. Fang, Y. Hu, P. Zhou, D. Wu, "ANIMC: A Soft Approach for Auto-weighted Noisy and Incomplete Multi-view Clustering," *IEEE Transactions on Artificial Intelligence*, vol. 3, no. 2, pp. 192–206, April 2022.
21. X. Yuan, X. Ma, L. Zhang, Y. Fang, D. Wu, "Beyond Class-Level Privacy Leakage: Breaking Record-Level Privacy in Federated Learning," *IEEE Internet of Things Journal*, vol. 9, no. 4, pp. 2555–2565, February 15, 2022.
22. C. Wu, T. Qiu, C. Zhang, W. Qu, D. Wu, "Ensemble Strategy Utilizing a Broad Learning System for Indoor Fingerprint Localization," *IEEE Internet of Things Journal*, vol. 9, no. 4, pp. 3011–3022, February 15, 2022.

23. N. Chen, T. Qiu, Z. Lu, D. Wu, “An Adaptive Robustness Evolution Algorithm with Self-Competition and its 3D Deployment for Internet of Things,” *IEEE/ACM Transactions on Networking*, vol. 30, no. 1, pp. 368–381, February 2022.
24. X. Zhang, G. Min, Q. Fan, H. Yin, D. Wu, Z. Ma, “A Light-Weight Statistical Latency Measurement Platform at Scale,” *IEEE Transactions on Industrial Informatics*, vol. 18, no. 2, pp. 1186–1196, February 2022.
25. M. A. Rezaei, Y. Li, D. Wu, X. Li, C. Li, “Deep Learning in Drug Design: Protein-Ligand Binding Affinity Prediction,” *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, vol. 19, no. 1, pp. 407–417, January/February 2022.
26. X. Fang, Y. Hu, P. Zhou, D. Wu, “V3H: View Variation and View Heredity for Incomplete Multi-view Clustering,” *IEEE Transactions on Artificial Intelligence*, vol. 1, no. 3, pp. 233–247, December 2021.
27. N. Xie, Z. Li, Y. Chen, D. Wu, “Lightweight Secure Localization Approach in Wireless Sensor Networks,” *IEEE Transactions on Communications*, vol. 69, no. 10, pp. 6879–6893, October 2021.
28. B. Sun, R. Al-Bayaty, Q. Huang, D. Wu, “Game Theoretical Approach for Non-Overlapping Community Detection,” *Journal of Tsinghua Science and Technology*, vol. 26, no. 5, pp. 706–723, October 2021.
29. X. Yuan, C. Chen, R. Bassanezi, F. Wu, Z. Feng, D. Shi, Y. Du, L. Zhong, B. Zhong, Z. Lu, J. Li, X. Song, Y. Hu, Z. Ouyang, X. Liu, J. Xie, X. Rao, X. Wang, D. Wu, Z. Guan, N. Wang, “Region-wide comprehensive implementation of roguing infected trees, tree replacement, and insecticide applications successfully controls citrus HLB,” *Phytopathology*, September 16, 2021.
30. P. Yang, X. Xi, T. Quek, J. Chen, X. Cao, D. Wu, “RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization,” *IEEE Internet of Things Journal*, vol. 8, no. 18, pp. 14258–14275, September 15, 2021.
31. M. Liu, Y. Wan, F. L. Lewis, E. Atkins, D. Wu, “Statistical Properties and Airspace Capacity for Unmanned Aerial Vehicle Networks subject to Sense-and-Avoid Safety Protocols,” *IEEE Transactions on Intelligent Transportation Systems*, vol. 22, no. 9, pp. 5890–5903, September 2021.
32. R. Han, D. Li, J. Ouyang, C. Liu, G. Wang, D. Wu, L. Y. Chen, “Accurate Differentially Private Deep Learning on the Edge,” *IEEE Transactions on Parallel and Distributed Systems*, vol. 32, no. 9, pp. 2231–2247, September 2021.
33. P. Liu, Y. Zhou, D. Peng, D. Wu, “Global-Attention-Based Neural Networks for Vision Language Intelligence,” accepted by *IEEE/CAA Journal of Automatica Sinica*. *IEEE/CAA J. Autom. Sinica*, vol. 8, no. 7, pp. 1243–1252, July 2021.
34. C. Xu, J. Zhu, D. Wu, “Decentralized Online Learning Methods Based on Weight-Balancing over Time-Varying Digraphs,” *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 5, no. 3, pp. 394–406, June 2021.
35. P. Yang, X. Xi, Y. Fu, T. Quek, X. Cao, D. Wu, “Multicast eMBB and Bursty URLLC Service Multiplexing in a CoMP-Enabled RAN,” *IEEE Transactions on Wireless Communications*, vol. 20, no. 5, pp. 3061–3077, May 2021.

36. Q. Wang, J. Li, Q. Qi, P. Zhou, D. Wu, "An Adaptive Location-based Routing Protocol for 3D Underwater Acoustic Sensor Networks," *IEEE Internet of Things Journal*, vol. 8, no. 8, pp. 6853–6864, April 15, 2021.
37. X. Xi, X. Cao, P. Yang, J. Chen, T. Quek, D. Wu, "Network Resource Allocation for eMBB Payload and URLLC Control Information Communication Multiplexing in a Multi-UAV Relay Network," *IEEE Transactions on Communications*, vol. 69, no. 3, pp. 1802–1817, March 2021.
38. P. Yang, X. Xi, T. Quek, J. Chen, X. Cao, D. Wu, "How Should I Orchestrate Resources of My Slices for Bursty URLLC Service Provision?" *IEEE Transactions on Communications*, vol. 69, no. 2, pp. 1134–1146, February 2021.
39. X. Bi, T. Qiu, W. Qu, L. Zhao, X. Zhou, D. Wu, "Dynamically Transient Social Community Detection for Mobile Social Networks," *IEEE Internet of Things Journal*, vol. 8, no. 3, pp. 1282–1293, February 1, 2021.
40. M. Wang, C. Xu, X. Chen, L. Zhong, Z. Wu, D. Wu, "BC-MDC: A Blockchain-based Decentralized Truthful Framework for Mobile Device Cloud," *IEEE Transactions on Industrial Informatics*, vol. 17, no. 2, pp. 1208–1219, February 2021.
41. K. Wang, H. Qian, X. Zheng, M. Chen, K. Liu, K. Zheng, P. Zhou, D. Wu, "ATPGNN: Reconstruction of Neighborhood in Graph Neural Networks with Attention-based Topological Patterns," *IEEE Access*, vol. 9, pp. 9218–9234, January 2021.
42. Z. Zheng, G. An, D. Wu, Q. Ruan, "Global and Local Knowledge-Aware Attention Network for Action Recognition," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 32, no. 1, pp. 334–347, January 2021.
43. C. H. Liu, Z. Dai, Y. Zhao, J. Crowcroft, D. Wu, K. K. Leung, "Distributed and Energy-Efficient Mobile Crowdsensing with Charging Stations by Deep Reinforcement Learning," *IEEE Transactions on Mobile Computing*, vol. 20, no. 1, pp. 130–146, January 2021.
44. W. Du, A. Li, P. Zhou, Z. Xu, X. Wang, H. Jiang, D. Wu, "Approximate to be Great: Communication Efficient and Privacy-preserving Large-scale Distributed Deep Learning in Internet of Things," *IEEE Internet of Things Journal*, vol. 7, no. 12, pp. 11678–11692, December 2020.
45. H. Xia, R. Zhang, X. Cheng, T. Qiu, D. Wu, "Two-stage Game Design of Payoff Decision-making Scheme for Crowdsourcing Dilemmas," *IEEE/ACM Transactions on Networking*, vol. 28, no. 6, pp. 2741–2754, December 2020.
46. G. Chen, K. Wang, Q. Ai, P. Zhou, D. Wu, "Reversible Data Hiding Based on Structural Similarity Block Selection," *IEEE Access*, vol. 8, no. 1, pp. 20375–20385, December 2020.
47. S. Li, C. Liu, L. Su, B. Xie, Z. Ding, P. Chen, D. Wu, "Discriminative Transfer Feature and Label Consistency for Cross-Domain Image Classification," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 31, no. 11, pp. 4842–4856, November 2020.
48. P. Li, L. Han, S. Xu, D. Wu, P. Gong, "Resource Allocation for 5G-Enabled Vehicular Networks in Unlicensed Frequency Bands," *IEEE Transactions on Vehicular Technology*, vol. 69, no. 11, pp. 13546–13555, November 2020.

49. X. Zhu, W. Qu, T. Qiu, M. Atiquzzaman, D. Wu, "Indoor Intelligent Fingerprint-based Localization: Principles, Approaches and Challenges," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2634–2657, Fourth Quarter 2020.
50. J. Chi, T. Qiu, X. Zhou, M. Atiquzzaman, D. Wu, "Edge Computing in Industrial Internet of Things: Architecture, Advances and Challenges," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2462–2488, Fourth Quarter 2020.
51. C. Chen, C. Wang, T. Qiu, M. Atiquzzaman, D. Wu, "Caching in Vehicular Named Data Networking: Architecture, Schemes and Future Directions," *IEEE Communications Surveys and Tutorials*, vol. 22, no. 4, pp. 2378–2407, Fourth Quarter 2020.
52. Q. Wang, J. Li, Q. Qi, P. Zhou, D. Wu, "A Game-Theoretic Routing Protocol for 3D Underwater Acoustic Sensor Networks," *IEEE Internet of Things Journal*, vol. 7, no. 10, pp. 9846–9857, October 2020.
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Selected Conference Publications

1. Z. Qiao, Z. Zhang, Z. Jiang, Y. Lai, J. Lee, D. Wu, C. Beltran, L. Ren, M. Huang, “Interpretable Feature-Specific Generative Adversarial Network Model for 3D CBCT Image Enhancement for Radiomics,” *Proceedings of the American Association of Physicists in Medicine (AAPM) 64th Annual Meeting and Exhibition*, Washington DC, USA, July 10–14, 2022.
2. Z. Zhang, M. Huang, Z. Jiang, Y. Chang, K. Lu, Z. Qiao, F. Yin, P. Tran, D. Wu, C. Beltran, L. Ren, “Comparison of Patient-Specific Deep Learning Models for Enhancing 4D-CBCT Image for Radiomics Analysis,” *Proceedings of the American Association of Physicists in Medicine (AAPM) 64th Annual Meeting and Exhibition*, Washington DC, USA, July 10–14, 2022.

3. L. Zhang, D. Wu, X. Yuan, “FedZKT: Zero-Shot Knowledge Transfer towards Resource-Constrained Federated Learning with Heterogeneous On-Device Models,” *Proceedings of IEEE International Conference on Distributed Computing Systems (ICDCS)*, Bologna, Italy, July 10–13, 2022.
4. K. Liu, D. Wang, P. Wang, W. Du, D. Wu, Y. Fu, “Efficient Reinforced Feature Selection via Early Stopping Traverse Strategy,” *Proceedings of IEEE International Conference on Data Mining (ICDM)*, virtual, December 7–December 12, 2021.
5. Z. Zou, T. Liu, D. Wu, W. Tang, “Compositional Graph Convolutional Networks for 3D Human Pose Estimation,” *Proceedings of IEEE International Conference on Automatic Face and Gesture Recognition (FG 2021)*, Jodhpur, India, December 15–18, 2021.
6. T. Shao, D. Wu, “Graph-LSTM with Global Attribute for Scene Graph Generation,” *Proceedings of International Conference on Artificial Intelligence, Automation and Algorithm (AI2A 2021)*, Guilin, Guangxi, China, July 23–25, 2021.
7. S. C. Dhulipala, A. S. Bretas, C. Ruben, X. Li, D. Wu, “Soft Control: A Novel Application of Internet of Things for Demand Side,” *Proceedings of The 52nd North American Power Symposium (NAPS)*, Tempe, Arizona, USA, April 11–13, 2021.
8. X. Xi, X. Cao, P. Yang, J. Chen, D. Wu, “Energy-Efficient Resource Allocation in a Multi-UAV-Aided NOMA Network,” *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, Nanjing, China, March 29 – April 1, 2021.
9. Y. Zhou, G. Pu, X. Ma, X. Li, D. Wu, “Communication-Efficient Federated Learning via Dataset Distillation,” *Proceedings of NeurIPS Workshop on Scalability, Privacy, and Security in Federated Learning (SpicyFL 2020)*, virtual, December 12, 2020.
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130. X. Du and D. Wu, "Efficient Multi-Class Routing Protocol for Heterogeneous Mobile Ad Hoc Networks," *Proceedings of IEEE Second International Conference on Broadband Networks (BroadNets 2005)*, Boston, USA, October 3–7, 2005.
131. Y. Sun, S. Todorovic, J. Li, and D. Wu, "A Robust Linear Programming Based Boosting Algorithm," *Proceedings of IEEE Machine Learning for Signal Processing Workshop (MLSP 2005)*, Mystic, Connecticut, USA, September 28–30, 2005.
132. J. Zhao, D. Erdogmus, C. Huang, D. Wu, and Y. Fang, "An Adaptive Motion Estimation Scheme Using Maximum Mutual Information Criteria," *Proceedings of 2005 European Signal Processing Conference (EUSIPCO-2005)*, Antalya, Turkey, September 4–8, 2005.
133. D. Wu and R. Negi, "Effective Capacity Channel Model for Frequency-selective Fading Channels," *Proceedings of IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005)*, Orlando, Florida, USA, August 22–24, 2005.
134. K. Lu, J. Fan, J. Greco, D. Wu, S. Todorovic, and A. Nucci, "A Novel Anti-DDoS System for Large-Scale Internet," *Proceedings of ACM SIGCOMM 2005, Work-in-Progress Session*, Philadelphia, PA, USA, August 22–26, 2005.
135. Y. Sun, S. Todorovic, J. Li, and D. Wu, "Unifying the Error-Correcting and Output-Code AdaBoost within the Margin Framework," *Proceedings of International Conference on Machine Learning (ICML 2005)*, Bonn, Germany, August 7–11, 2005.
136. W. Li, B. Liu, L. Shi, Y. Xu, and D. Wu, "Preemptive Packet-Mode Scheduling to Improve TCP Performance," *Proceedings of International Workshop on Quality of Service (IWQoS 2005)*, Passau, Germany, June 21–23, 2005.

137. Z. He, and D. Wu, "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
138. Y. Zhou, D. Wu, and S. M. Nettles, "Authentication, Authorization, and Accounting for Real-Time Secondary Market Services," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
139. K. Lu, D. Wu, Y. Fang, and R. Qiu, "Performance Analysis of A Burst-Frame-Based MAC Protocol for Ultra-Wideband Ad Hoc Networks," Proceedings of IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16–20, 2005.
140. K. Lu, D. Wu, Y. Fang, and R. Qiu, "On Medium Access Control for High Data Rate Ultra-Wideband Ad Hoc Networks," Proceedings of IEEE WCNC 2005, New Orleans, LA, USA, March 13–17, 2005.
141. Z. He, D. Wu, "Energy allocation and operational lifetime control for wireless video sensors," Proceedings of SPIE Electronic Imaging 2005, San Jose, CA, USA, Jan. 16–20, 2005.
142. G. Ramachandran, V. Krishnan, D. Wu, Z. He, and T. D. Goswami, "A Model-based Adaptive Motion Estimation Scheme Using Renyi's Entropy for Wireless Video," Proceedings of IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13–14, 2004.
143. Z. He, and D. Wu, "Look-Ahead Processing and Joint Rate Control for Mutiple JVT Video Encoders," Proceedings of IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13–14, 2004.
144. H. Zhai, J. Wang, Y. Fang, and D. Wu, "A Dual-channel MAC Protocol for Mobile Ad Hoc Networks," *Proceedings of IEEE Workshop on Wireless Ad Hoc and Sensor Networks*, in conjunction with IEEE Globecom 2004, Dallas, Texas, USA, November 29, 2004.
145. D. Wu and R. Negi, "Effective Capacity-Based Quality of Service Measures for Wireless Networks," *Proceedings of IEEE/ACM BroadNets 2004, Broadband Wireless Networking Symposium*, San Jose, CA, USA, October 25–29, 2004.
146. Y. Zhou, D. Wu, and S. M. Nettles, "Analyzing and Preventing MAC-Layer Denial of Service Attacks for Stock 802.11 Systems," *Proceedings of IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004)*, San Jose, CA, USA, October 25, 2004.
147. 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.
148. 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.
149. D. Wu and R. Negi, "Downlink Scheduling in a Cellular Network for Quality of Service Assurance," *Proceedings of IEEE Vehicular Technology Conference (VTC) Fall 2003*, Orlando, Florida, USA, October 4–9, 2003.
150. 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.

151. D. Wu and R. Negi, "A Wireless Channel Model for Support of Quality of Service," *Proceedings of IEEE Global Communications Conference (GLOBECOM'01)*, San Antonio, Texas, USA, Nov. 25–29, 2001.
152. T. Hou, D. Wu, J. Yao, T. Chujo, "A Core-Stateless Buffer Management Mechanism for Differentiated Services Internet," *Proceedings of IEEE Conference on Local Computer Networks (LCN'2000)*, Tampa, Florida, USA, Nov. 9–10, 2000.
153. D. Wu, T. Hou, Y.-Q. Zhang, "Scalable Video Transport over Wireless IP Networks," *Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC'2000)*, London, UK, Sept. 18–21, 2000. (Invited paper)
154. D. Wu, T. Hou, Y.-Q. Zhang, H. J. Chao, "Optimal Mode Selection in Internet Video Communication: An End-to-End Approach," *Proceedings of IEEE ICC'2000*, New Orleans, Louisiana, USA, June 18–22, 2000.
155. D. Wu, T. Hou, Z.-L. Zhang, H. J. Chao, T. Hamada, "A Per-flow Based Node Architecture for Integrated Services Packet Networks," *Proceedings of IEEE ICC'2000*, New Orleans, Louisiana, USA, June 18–22, 2000.
156. D. Wu, T. Hou, Y.-Q. Zhang, W. Zhu, H. J. Chao, "Adaptive QoS Control for MPEG-4 Video Communication over Wireless Channels," *Proceedings of IEEE Workshop & Exhibition on MPEG-4 (ISCAS'2000)*, Geneva, Switzerland, May 28–31, 2000.
157. D. Wu, T. Hou, J. Yao, H. J. Chao, "Transmission of Real-time Video over the Internet: a Big Picture," *Proceedings of IEEE NetWorld+Interop*, Las Vegas, Nevada, USA, May 10–11, 2000.
158. T. Hou, D. Wu, W. Zhu, H.-J. Lee, T. Chiang, Y.-Q. Zhang, "An End-to-End Architecture for MPEG-4 Video Streaming over the Internet," *Proceedings of IEEE International Conference on Image Processing (ICIP'99)*, Kobe, Japan, Oct. 25–28, 1999.
159. T. Hou, D. Wu, J. Yao, T. Hamada, T. Taniguchi, "A Differentiated Services Architecture for Multimedia Traffic in IP Networks," *Proceedings of International Conference on Computer Communication (ICCC'99)*, vol. 1, pp. 114–123, Tokyo, Japan, Sept. 14–16, 1999.
160. D. Wu, T. Hou, Z.-L. Zhang, H. J. Chao, T. Hamada, T. Taniguchi, "On Implementation Architecture for Achieving QoS Provisioning in Integrated Services Networks," *Proceedings of IEEE International Conference on Communications (ICC'99)*, Vancouver, Canada, June 6–10, 1999.
161. D. Wu, T. Hou, W. Zhu, Y.-Q. Zhang, H. J. Chao, "MPEG-4 Compressed Video over the Internet," *Proceedings of IEEE International Symposium on Circuits and Systems (ISCAS'99)*, Orlando, USA, May 30–June 2, 1999.
162. D. Wu and H. J. Chao, "Efficient Bandwidth Allocation and Call Admission Control for VBR Service Using UPC Parameters," *Proceedings of IEEE INFOCOM'99*, pp. 1044–1052, New York, USA, Mar. 21–25, 1999.
163. 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.
164. D. Wu and H. J. Chao, "TCP/IP over ATM-GFR," *Proceedings of IEEE ATM Workshop (ATM'98)*, pp. 360–367, Fairfax, Virginia, USA, May 26–29, 1998.

Number of Times being Cited for Some of My Publications

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

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

Patents

- “PHYSICAL TRANSFORMATIONS FOR MULTI-DIMENSIONAL DATA QUANTUM REPRESENTATIONS,” filed for US patent, U.S. Patent Application No. 63/218,065, July 2, 2021.
- “Joint fountain coding and network coding for loss-tolerant information spreading,” U.S. Patent No. 10,880,202 B2. Issue Date: December 29, 2020.
- “JOINT FOUNTAIN CODE AND NETWORK CODING FOR MULTIPLE-SOURCE-MULTIPLE-DESTINATION WIRELESS COMMUNICATION,” U.S. Patent No. 10,623,082. Issue Date: April 14, 2020.
- “Joint fountain coding and network coding for loss-tolerant information spreading,” U.S. Patent No. 10,530,526. Issue Date: January 7, 2020.
- “REGRET BENEFIT RATIO LINK SCHEDULER FOR WIRELESS BACKHAUL WITH DIRECTIONAL ANTENNAS,” U.S. Patent No. 10,455,604. Issue Date: October 22, 2019

- “Joint Fountain Coding And Network Coding For Loss-Tolerant Information Spreading,” U.S. Patent No. 10,116,418. Issue Date: October 30, 2018. PCT Filed: August 7, 2015. PCT No.: PCT/US2015/044333
- “DEEP LEARNING FOR CHARACTERIZING UNSEEN CATEGORIES,” filed for US patent, U.S. Provisional Patent Application No. 62478094, March 29, 2017. U.S. Utility Patent Application No. 15939717, March 29, 2018.
- “METHOD FOR NO-REFERENCE IMAGE QUALITY ASSESSMENT,” filed for US patent, U.S. Patent Application No. 62399985, September 26, 2016. Filed for international patent, PCT/US2017/053393, September 26, 2017.
- “METHOD FOR EXPLOITING DIVERSITY WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309823, March 17, 2016. Filed for international patent, PCT/US2017/022772, March 16, 2017.
- “METHOD FOR CONGESTION RELIEF WITH NETWORK CODING,” filed for US patent, U.S. Patent Application No. 62309872, March 17, 2016. Filed for international patent, PCT/US2017/022761, March 16, 2017.
- “A SYSTEM FOR LIVE VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309069, March 16, 2016. Filed for international patent, PCT/US2017/022715, March 16, 2017.
- “A SYSTEM FOR VIDEO STREAMING USING DELAY-AWARE FOUNTAIN CODES,” filed for US patent, U.S. Patent Application No. 62309023, March 16, 2016. Filed for international patent, PCT/US2017/022719, March 16, 2017.
- “IMPROVED JOINT FOUNTAIN CODING AND NETWORK CODING FOR LOSS-TOLERANT INFORMATION SPREADING,” filed for US patent, U.S. Patent Application No. 62270568, December 21, 2015. Filed for international patent, PCT/US2016/067968, December 21, 2016.
- “Video skimming methods and systems,” U.S. Patent No. 10,153,001. Issue Date: December 11, 2018.
- “Social Networking Reducing Peak Power Consumption in Smart Grid,” filed for US patent, Application No. 14663212, March 19, 2015.
- “Adaptive Quantization Using Piecewise 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 6825, *Pattern Recognition and Intelligent Systems*, Department of Electrical & Computer Engineering, University of Florida, Spring 2022.
Instructor overall: N/A (ECE department average: N/A)
Enrollment: 174 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2021.
Instructor overall: N/A (ECE department average: N/A)
Enrollment: 41 (graduates).
- EEL 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2021.
Instructor overall: N/A (ECE department average: N/A)
Enrollment: 63 (graduates).
- EEL 6825, *Pattern Recognition and Intelligent Systems*, Department of Electrical & Computer Engineering, University of Florida, Spring 2021.
Instructor overall: N/A (ECE department average: N/A)
Enrollment: 157 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2020.
Instructor overall: 4.51 (ECE department average: 4.49)
Enrollment: 68 (graduates).
- EEL 6825, *Pattern Recognition and Intelligent Systems*, Department of Electrical & Computer Engineering, University of Florida, Spring 2020.
Instructor overall: 4.37 (ECE department average: 4.53)
Enrollment: 160 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2019.
Instructor overall: 4.53 (ECE department average: 4.32)
Enrollment: 41 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2019.
Instructor overall: 4.71/5.0 (ECE department average: 4.62)
Enrollment: 136 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2018.
Instructor overall: 4.57/5.0 (ECE department average: 4.38)
Enrollment: 29 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.
Instructor overall: 4.56/5.0 (ECE department average: 4.46)
Enrollment: 70 (graduates).

- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2017.
Instructor overall: 4.38/5.0 (ECE department average: 4.46)
Enrollment: 262 (graduates).
- CNT 6805, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2016.
Instructor overall: 4.64/5.0 (ECE department average: 4.32)
Enrollment: 54 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2016.
Instructor overall: 4.48/5.0 (ECE department average: 4.32)
Enrollment: 153 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2016.
Instructor overall: 4.68/5.0 (ECE department average: 4.46)
Enrollment: 69 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2016.
Instructor overall: 4.28/5.0 (ECE department average: 4.46)
Enrollment: 189 (graduates).
- CNT 6805, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2015.
Instructor overall: 4.57/5.0 (ECE department average: 4.31)
Enrollment: 20 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2015.
Instructor overall: 4.56/5.0 (ECE department average: 4.31)
Enrollment: 99 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2015.
Instructor overall: 4.51/5.0 (ECE department average: 4.42)
Enrollment: 51 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2015.
Instructor overall: 4.35/5.0 (ECE department average: 4.42)
Enrollment: 93 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2014.
Instructor overall: 4.36/5.0 (ECE department average: 4.17)
Enrollment: 22 (graduates).
- EEE 6512, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2014.
Instructor overall: 3.86/5.0 (ECE department average: 4.17)
Enrollment: 64 (graduates).

- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2014.
Instructor overall: 4.21/5.0 (ECE department average: 4.25)
Enrollment: 57 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2014.
Instructor overall: 4.37/5.0 (ECE department average: 4.25)
Enrollment: 92 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2013.
Instructor overall: 4.44/5.0 (ECE department average: 4.27)
Enrollment: 30 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2013.
Instructor overall: 4.54/5.0 (ECE department average: 4.27)
Enrollment: 102 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2013.
Instructor overall: 4.41/5.0 (ECE department average: 4.30)
Enrollment: 108 (graduates).
- EEL 6825, *Pattern Recognition*, Department of Electrical & Computer Engineering, University of Florida, Spring 2013.
Instructor overall: 4.32/5.0 (ECE department average: 4.30)
Enrollment: 91 (graduates).
- EEL 6935, *Network Science and Applications*, Department of Electrical & Computer Engineering, University of Florida, Fall 2012.
Instructor overall: 4.41/5.0 (ECE department average: 4.25)
Enrollment: 47 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2012.
Instructor overall: 4.45/5.0 (ECE department average: 4.25)
Enrollment: 118 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2012.
Instructor overall: 4.42/5.0 (ECE department average: 4.26)
Enrollment: 113 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2011.
Instructor overall: 4.23/5.0 (ECE department average: 4.34)
Enrollment: 116 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2010.
Instructor overall: 4.68/5.0 (ECE department average: 4.32)
Instructor evaluation: 4.71/5.0 (ECE department average: 4.28)
Enrollment: 70 (graduates).

- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2010.
Instructor overall: 4.83/5.0 (ECE department average: 4.37)
Instructor evaluation: 4.83/5.0 (ECE department average: 4.28)
Enrollment: 113 (graduates).
- EEL 4514, *Communication Systems and Components*, Department of Electrical & Computer Engineering, University of Florida, Fall 2009.
Instructor overall: 4.82/5.0 (ECE department average: 4.24)
Instructor evaluation: 4.65/5.0 (ECE department average: 4.20)
Enrollment: 22 (undergraduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2009.
Instructor overall: 4.69/5.0 (ECE department average: 4.30)
Instructor evaluation: 4.63/5.0 (ECE department average: 4.25)
Enrollment: 108 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2008.
Instructor overall: 4.56/5.0 (ECE department average: 4.31)
Instructor evaluation: 4.59/5.0 (ECE department average: 4.25)
Enrollment: 131 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2008.
Instructor overall for Section 0522: 4.57/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 0522: 4.52/5.0 (ECE department average: 4.21)
Instructor overall for Section 2587: 5.0/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 2587: 4.67/5.0 (ECE department average: 4.21)
Instructor overall for Section 8149: 5.0/5.0 (ECE department average: 4.27)
Instructor evaluation for Section 8149: 4.94/5.0 (ECE department average: 4.21)
Enrollment: 56 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2007.
Instructor overall: 4.48/5.0 (ECE department average: 4.27)
Instructor evaluation: 4.61/5.0 (ECE department average: 4.22)
Enrollment: 71 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2007.
Instructor overall: 4.95/5.0 (ECE department average: 4.27)
Instructor evaluation: 4.89/5.0 (ECE department average: 4.22)
Enrollment: 50 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2006.
Instructor overall: 4.52/5.0 (ECE department average: 4.13)
Instructor evaluation: 4.53/5.0 (ECE department average: 4.10)
Enrollment: 71 (graduates).
- EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2006.

- Instructor overall: 4.75/5.0 (ECE department average: 4.25)
 Instructor evaluation: 4.78/5.0 (ECE department average: 4.19)
 Enrollment: 18 (graduates).
- EEL 6562, *Image Processing and Computer Vision*, Department of Electrical & Computer Engineering, University of Florida, Fall 2005.
 Instructor overall: 4.56/5.0 (ECE department average: 4.19)
 Instructor evaluation: 4.49/5.0 (ECE department average: 4.14)
 Enrollment: 58 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2005.
 Instructor overall: 4.83/5.0 (ECE department average: 4.21)
 Instructor evaluation: 4.70/5.0 (ECE department average: 4.16)
 Enrollment: 32 (graduates).
 - EEL 6935, *Multimedia Communications and Networking*, Department of Electrical & Computer Engineering, University of Florida, Fall 2004.
 Instructor overall: 4.30/5.0 (ECE department average: 4.14)
 Instructor evaluation: 4.44/5.0 (ECE department average: 4.09)
 Enrollment: 20 (graduates).
 - EEL 6509, *Wireless Communications*, Department of Electrical & Computer Engineering, University of Florida, Spring 2004.
 Instructor overall: 4.89/5.0 (ECE department average: 4.20)
 Instructor evaluation: 4.85/5.0 (ECE department average: 4.13)
 Enrollment: 23 (graduates).
 - EEL 6935, *Special Topics in Multimedia Communications and Networking*, Department of Electrical & Computer Engineering, University of Florida, Fall 2003.
 Instructor overall: 4.88/5.0 (ECE department average: 4.21)
 Instructor evaluation: 4.61/5.0 (ECE department average: 4.16)
 Enrollment: 9 (graduates).

• Teaching Assistance

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

Student Advising and Visiting Scholars

- Ph.D. graduated (39 advisees)
 - Heng Qiao, Department of Electrical & Computer Engineering, University of Florida *March 2022*
 Dissertation title: ANOMALY DETECTION AND ITS APPLICATIONS

- Xiyao Ma, Department of Electrical & Computer Engineering, University of Florida *March 2022*
Dissertation title: Deep Representation Learning for Item Recommendation and Question Answering
- Yanlin Zhou, Department of Electrical & Computer Engineering, University of Florida *Dec. 2021*
Dissertation title: Modern Autonomous Driving
- Tong Shao, Department of Electrical & Computer Engineering, University of Florida *July 2021*
Dissertation title: Deep Learning based Visual Computing
- Zheng Feng, Department of Computer & Information Science & Engineering, University of Florida *June 2021*
Dissertation title: Scalable & Real-time Deep Learning Techniques and Medical Applications
- Yanjun Li, Department of Computer & Information Science & Engineering, University of Florida *May 2021*
Dissertation title: ARTIFICIAL INTELLIGENCE FOR PROTEIN STRUCTURE PREDICTION AND DRUG DISCOVERY
- Qile Zhu, Department of Computer & Information Science & Engineering, University of Florida *June 2020*
Dissertation title: Deep Representation Learning in Natural Language Processing.
- Xiaoyong Yuan, Department of Computer & Information Science & Engineering, University of Florida *June 2020*
Dissertation title: SECURITY AND PRIVACY ISSUES IN DEEP LEARNING
- Rajendra Bhat, Department of Electrical & Computer Engineering, University of Florida *December 2019*
Dissertation title: Deep Semi-Temporal Learning and Application in Genomics and Precision Medicine
- Chiranjib Sur, Department of Computer & Information Science & Engineering, University of Florida *July 2019*
Dissertation title: REPRESENTATIONS FOR VISION LANGUAGE INTELLIGENCE USING TENSOR PRODUCT REPRESENTATION
- Qi Cai, Department of Electrical & Computer Engineering, University of Florida *July 2019*
Dissertation title: VIDEO CODING STRATEGIES FOR MACHINE COMPREHENSION
- Manu Chandran, Department of Electrical & Computer Engineering, University of Florida *November 2018*
Dissertation title: Application Of Machine Learning Techniques in Point Cloud Generation and Point Cloud Object Classification
- Jiade Li, Department of Electrical & Computer Engineering, University of Florida *November 2017*
Dissertation title: A Framework for Intelligent Network and Security
- Yun Zhu, Department of Electrical & Computer Engineering, University of Florida *August 2017*
Dissertation title: Enabling Technologies for Next-Generation Wireless Networks
- Qiuyuan Huang, Department of Electrical & Computer Engineering, University of Florida *August 2017*
Dissertation title: Learning-based Cooperative Networking
- Kairan Sun, Department of Electrical & Computer Engineering, University of Florida *November 2016*
Dissertation title: Coding Strategies for Multimedia Communications over Networks

- Xin Li, Department of Electrical & Computer Engineering, University of Florida *July 2016*
Dissertation title: Novel Control Approaches and Simulators for Complex Networks
- Dr. Pratik Prabhanjan Brahma, Department of Electrical & Computer Engineering, University of Florida *July 2016*
Dissertation title: Reliable Subspace Representation for Better Learning and Understanding Of Data
- Dr. Ruigang Fang, Department of Electrical & Computer Engineering, University of Florida *July 2015*
Dissertation title: Image Quality Assessment.
- Dr. Shijie Li, Department of Electrical & Computer Engineering, University of Florida *July 2014*
Dissertation title: Machine Learning Techniques and Their Applications to Computer Vision.
- Dr. Baohua Sun, Department of Electrical & Computer Engineering, University of Florida *Dec. 2013*
Dissertation title: Game Theoretical Approach for Clustering and Its Application in Big Data Analytics.
- Dr. Yuejia He, Department of Electrical & Computer Engineering, University of Florida *July 2013*
Dissertation title: Inference of Network Topology and Dynamics: A Compressive Sensing Approach.
- Dr. Zheng Yuan, Department of Electrical & Computer Engineering, University of Florida *April 2013*
Dissertation title: Advanced Video Processing Techniques in Video Transmission Systems.
- Dr. Christopher Paulson, Department of Electrical & Computer Engineering, University of Florida *April 2013*
Dissertation title: Utilizing Glint Phenomenology to Perform Classification of Civilian Vehicle Using Synthetic Aperture Radar.
- Dr. Zongrui Ding, Department of Electrical & Computer Engineering, University of Florida *July 2012*
Dissertation title: Stochastic Optimization and Its Application to Communication Networks and the Smart Grid.
- Dr. Yakun Hu, Department of Electrical & Computer Engineering, University of Florida *April 2012*
Dissertation title: Advanced Signal Processing Techniques for Speaker Recognition and Communications.
- Dr. Qian Chen, Department of Electrical & Computer Engineering, University of Florida *November 2011*
Dissertation title: Image and Video Processing for Denoising, Coding and Content Protection.
- Dr. Lei Yang, Department of Electrical & Computer Engineering, University of Florida *May 2011*
Dissertation title: Image and Video Compression and Copyright Protection.
- Dr. Taoran Lu, Department of Electrical & Computer Engineering, University of Florida *November 2010*
Dissertation title: Content-Aware Approaches for Digital Video Adaptation, Summarization and Compression.
- Dr. Zhifeng Chen, Department of Electrical & Computer Engineering, University of Florida *November 2010*
Dissertation title: Video Distortion Analysis and System Design for Wireless Video Communication.

- Dr. Bing Han, Department of Electrical & Computer Engineering, University of Florida *June 2010*
Dissertation title: Advanced Techniques for Digital Image Compression and Analysis.
 - Dr. Jun Xu, Department of Electrical & Computer Engineering, University of Florida *May 2010*
Dissertation title: Sparsity Based Image and Video Processing.
 - Dr. Xihua Dong, Department of Electrical & Computer Engineering, University of Florida *May 2010*
Dissertation title: Some Challenging Problems in Wireless Communications.
 - Dr. Youngho Jo, Department of Electrical & Computer Engineering, University of Florida *Nov. 2009*
Dissertation title: Physical Layer Techniques for Wireless Communication Security.
 - Dr. Xiaochen Li, Department of Electrical & Computer Engineering, University of Florida *April 2009*
Dissertation title: Power Control and Resource Allocation for Delay-Constrained Communications.
 - Dr. 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. Dissertation Committees (completed)
 - Runhan Sun, Department of Mechanical & Aerospace Engineering, University of Florida *May 2022*
 - Xianhao Chen, Department of Electrical & Computer Engineering, University of Florida *March 2022*
Dissertation title: EDGE INTELLIGENCE: THE CONVERGENCE OF COMMUNICATIONS AND COMPUTING
 - Tierui Zou, Department of Electrical & Computer Engineering, University of Florida *August 2021*
 - Yawei Pang, Department of Electrical & Computer Engineering, University of Florida *June 2019*
Dissertation title: SAFETY CENTRIC SERVICES IN SMART CITIES
 - David Gray, Department of Electrical & Computer Engineering, University of Florida *April 2018*
Dissertation title: Classifier Training Set Augmentation by Warping Synthetic Data in a Subspace Manifold.
 - David Ojika, Department of Electrical & Computer Engineering, University of Florida *April 2018*
Dissertation title: FLEXIBLE ARCHITECTURE FOR PROGRAMMABLE ACCELERATORS AT DATACENTER-SCALE.
 - Xianqi Li, Department of Mathematics, University of Florida *March 2018*
Dissertation title: Fast First-Order Optimization Methods With Applications to Inverse Problems.

- Scott Nivison, Department of Electrical & Computer Engineering, University of Florida *Nov. 2017*
Dissertation title: SPARSE AND DEEP LEARNING BASED NONLINEAR FLIGHT CONTROL DESIGN WITH HYPER-SONIC FLIGHT APPLICATIONS.

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

- Zheng Cao, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2017*
Dissertation title: INFORMATION THEORETIC CLASSIFICATION OF MARINE ANIMAL IMAGERY.

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

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

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

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

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

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

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

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

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

- Chi Zhang, Department of Electrical & Computer Engineering, University of Florida *Complete date: July 2011* Dissertation title: Security and Network Performance for Wireless Ad Hoc Networks.
- Qing Yang, Department of Electrical & Computer Engineering, University of Florida *Complete date: May 2011* Dissertation title: The Impact of Signal Temporal Structure on the Auditory Sensitivity and Its Application to Audio Dynamic Range Control.
- Rongsheng Huang, Department of Electrical & Computer Engineering, University of Florida *Complete date: March 2011* Dissertation title: How to Efficiently Utilize Multi-hop Wireless Ad hoc Networks - Throughput Improvement and Mobility Support.
- Johannes Karlsson, Department of Applied Physics and Electronics, Umea University, Sweden, *Complete date: December 2010* Dissertation title: Wireless Video Sensor Network and Its Applications in Digital Zoo.
- Li-Der Chang, Department of Electrical & Computer Engineering, University of Florida *Complete date: November 2010* Dissertation title: Bare-Earth Extraction and Occluded Vehicle Detection in Forested Terrain from Airborne LiDAR Point Clouds.
- Xinyan Zha, Department of Computer & Information Science & Engineering, University of Florida *Complete date: June 2010* Dissertation title: Multi-Pattern String Matching Algorithms.
- Huilin Xu, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2010* Dissertation title: Transceiver Design and Signal Processing for UWB Signals.
- Lei Ye, Department of Computing, Hong Kong Polytechnic University *Complete date: April 2010* Dissertation title: A Family of QoS-Aware Traffic Control Protocols.
- Wei-jen Hsu, Department of Computer & Information Science & Engineering, University of Florida *Complete date: July 2008* Dissertation title: Analysis of Large-Scale Wireless Network Traces and Its Impact on User Modeling and Protocol Design.
- Yiwen Wang, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2008* Dissertation title: Point Processes Monte Carlo Filtering for Brain Machine Interfaces.
- Yun Zhou, Department of Electrical & Computer Engineering, University of Florida *Complete date: May 2007* Dissertation title: Security in Wireless Sensor Networks.
- Wencheng Lu, Department of Computer & Information Science & Engineering, University of Florida *Complete date: April 2007* Dissertation title: Data Structures for Efficient Packet Classification.
- Seung Chul Han, Department of Computer & Information Science & Engineering, University of Florida *Complete date: Feb. 2007* Dissertation title: Optimal Node Selection and Network Load-Aware Multimedia Streaming Distribution in Peer-to-Peer Networks.
- Harsha M. Sathyendra, Department of Electrical & Computer Engineering, University of Florida *Complete date: Nov. 2006*

- Dissertation title: Robust Speaker-Independent Bandwidth Extension for Mobile and Landline Communications.
- Yong Tang, Department of Computer & Information Science & Engineering, University of Florida
Complete date: April 2006
Dissertation title: Defending Against Internet Worms.
 - Arun Avudainayagam, Department of Electrical & Computer Engineering, University of Florida
Complete date: April 2006
Dissertation title: Collaborative Decoding: Achieving Cooperative Diversity in Wireless Networks Using Soft-Input Soft-Output Decoders.
 - Hong Xiong, Department of Electrical & Computer Engineering, University of Florida
Complete date: Dec. 2005
Dissertation title: Robust Adaptive Methods and Their Applications in Quadrupole Resonance.
 - Jun Tian, Department of Computer & Information Science & Engineering, University of Florida
Complete date: Nov. 2005
Dissertation title: Speed Adaptive Mobile IP over Wireless LAN.
 - Roberto Albertani, Department of Mechanical & Aerospace Engineering, University of Florida
Complete date: Nov. 2005
Dissertation title: Experimental Aerodynamic and Static Elastic Deformation Characterization of LAR Flexible Fixed Wings applied to Micro Aerial Vehicles.
 - Wei Liu, Department of Electrical & Computer Engineering, University of Florida
Complete date: July 2005
Dissertation title: Cross-Layer Design of Resource Aware Protocols for Heterogeneous Wireless Ad Hoc Networks.
 - Jianhua Liu, Department of Electrical & Computer Engineering, University of Florida
Complete date: Aug. 2004
Dissertation title: System Design and Signal Processing for OFDM-Based Wireless Communication Systems.
 - Deniz Rende, Department of Electrical & Computer Engineering, University of Florida
Complete date: June 2004
Dissertation title: Bit-Interleaved Space-Frequency Coded Modulation for Orthogonal Frequency-Division Multiplexing Systems.
- Graduate Students for Independent Study
 - He Wang, Department of Electrical & Computer Engineering, University of Florida
Aug. 2011 – Dec. 2011
 - Qiuyuan Huang, Department of Electrical & Computer Engineering, University of Florida
Aug. 2011 – Dec. 2011
 - Alexander M Chebaro, Department of Electrical & Computer Engineering, University of Florida
Jan. 2011 – May 2011
 - Yuejia He, Department of Electrical & Computer Engineering, University of Florida
Jan. 2011 – May 2011

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

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

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

- Keshav Rajan, Department of Electrical & Computer Engineering, University of Florida *Aug. 2008 – Dec. 2008*
- Christopher R. Paulson, Department of Electrical & Computer Engineering, University of Florida *Aug. 2007 – Dec. 2007*
- Zheng Gao, Department of Electrical & Computer Engineering, University of Florida *Aug. 2007 – Dec. 2007*
- Shuang Liu, Department of Electrical & Computer Engineering, University of Florida *Aug. 2007 – Dec. 2007*
- Shuang Li, Department of Electrical & Computer Engineering, University of Florida *May 2007 – Aug. 2007*
- Xu Zhao, Department of Agricultural and Biological Engineering, University of Florida *Sept. 2006 – Dec. 2006*
- Stuart G. Nielson, Department of Electrical & Computer Engineering, University of Florida *May 2006 – Aug. 2006*
- Deepika Dwivedi, Department of Electrical & Computer Engineering, University of Florida *Jan. 2005 – April 2005*
- Vignesh Krishnan, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004 – April 2004*
- Manasa Raghavan, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004 – April 2004*
- Archana Rao, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004 – April 2004*
- Xiaomin Zhu, Department of Electrical & Computer Engineering, University of Florida *Jan. 2004 – April 2004*
- B.S. Thesis Supervised
 - James Greco, Department of Electrical & Computer Engineering, University of Florida *Complete date: April 2005*
Thesis title: Parallel Computer Vision and Image Processing Architecture.
- B.S. Thesis Committee

- Alexandar Chebaro, Department of Electrical & Computer Engineering, University of Florida
Complete date: April 2010
Thesis title: Interference Management Strategies for Uplink Transmission in Cellular Networks.
- Postdoctoral associates
 - Dr. Huazi Zhang, Department of Electrical & Computer Engineering, University of Florida *August 2014 – October 2015*
 - Dr. Hyung Rai Oh, Department of Electrical & Computer Engineering, University of Florida *August 2011 – July 2012*
 - Dr. Kejie Lu, Department of Electrical & Computer Engineering, University of Florida *April 2004 – July 2005*
- Visitors
 - Dr. Zengshun Zhao, Department of Electrical & Computer Engineering, University of Florida *April 2017 – March 2018*
 - Dr. Xu Zhang, Department of Electrical & Computer Engineering, University of Florida *Nov. 2015 – May 2016*
 - Dr. Yong Niu, Department of Electrical & Computer Engineering, University of Florida *Dec. 2014 – May 2015*
 - Dr. Wei Wang, Department of Electrical & Computer Engineering, University of Florida *March 2014 – Dec. 2014*
 - Dr. Zhengchuan Chen, Department of Electrical & Computer Engineering, University of Florida *Dec. 2013 – Dec. 2014*
 - Dr. Liquan Shen, Department of Electrical & Computer Engineering, University of Florida *Nov. 2013 – Nov. 2014*
 - Dr. Kwang-deok Seo, Department of Electrical & Computer Engineering, University of Florida *Aug. 2012 – Aug. 2013*
 - Dr. Lei Sun, Department of Electrical & Computer Engineering, University of Florida *Sept. 2011 – Sept. 2012*
 - Dr. Hwangjun Song, Department of Electrical & Computer Engineering, University of Florida *Jan. 2011 – Jan. 2012*

- Dr. Tao Han, Department of Electrical & Computer Engineering, University of Florida *August 2010 – August 2011*
- Dr. Wang Liu, Department of Electrical & Computer Engineering, University of Florida *Oct. 2010 – Oct. 2011*
- Dr. Zhi Chen, Department of Electrical & Computer Engineering, University of Florida *Oct. 2009 – Oct. 2010*
- Yi Chen, Department of Electrical & Computer Engineering, University of Florida *Sept. 2009 – Sept. 2010*
- Dr. Qing Wang, Department of Electrical & Computer Engineering, University of Florida *Sept. 2008 – Aug. 2009*
- Dr. Pengwei Hao, Department of Electrical & Computer Engineering, University of Florida *March 2009 – May 2009*
- Dr. Yunzhao Li, Department of Electrical & Computer Engineering, University of Florida *Oct. 2007 – Dec. 2008*

University Service

- Member of the steering committee for strategic planning for the information technology research area, College of Engineering, University of Florida *Oct. 2009–2010*
- 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. 2011–2012*
- Member of Faculty Search Committee *Nov. 2010–April 2011*
- Member of Graduate Recruiting and Admissions Committee *Aug. 2007–2022*
- Member of ABET Committee for EGN 1935 (ECE Adventures) *Aug. 2007–2015*
- Member of ABET Committee for EEL 3112 (Circuits 2) *Aug. 2004–2015*
- Member of Awards Committee *Aug. 2004–2015*

- 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
 - Associate Editor for IEEE Transactions on Cloud Computing *2021–present*
 - Editor-at-Large for IEEE Open Journal of the Communications Society Editorial Board, *2020–present*
 - Editor-in-Chief for IEEE Transactions on Network Science and Engineering, *2017–present*
 - Founding Editor-in-Chief for Journal of Advances in Multimedia *July 2006–December 2008*
 - Founder of IEEE Transactions on Network Science and Engineering, 2013
 - Associate Editor for Wireless Networks, Springer *November 2019–present*
 - Associate Editor for IEEE Transactions on Communications *June 2016–December 2018*
 - Senior Editor for IEEE Signal Processing Magazine *Jan. 2015–December 2017*
 - Associate Editor for IEEE Transactions on Signal and Information Processing over Networks *Nov. 2014–December 2017*
 - Associate Editor for IEEE Transactions on Wireless Communications *March 2006–Nov. 2010*
 - Associate Editor for IEEE Transactions on Circuits and Systems for Video Technology *Jan. 2006–March 2016*
 - Associate Editor for IEEE Transactions on Vehicular Technology *Jan. 2004–Nov. 2007*
 - Associate Editor for Journal of Visual Communication and Image Representation, Elsevier, *June 2010–Dec. 2013*
 - Associate Editor for International Journal of Ad Hoc and Ubiquitous Computing, INDER-SCIENCE, *Sept. 2004–Dec. 2013*
 - Editor for SigPort, IEEE Signal Processing Society, *April 2016–present*
 - Guest Editor for IEEE Wireless Communications, Special Issue on Emerging Visual IoT Technologies for Future Communications and Networks, 2020
 - Lead Guest Editor for IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Airborne Communication Networks, 2018
 - Guest Editor for Computers & Electrical Engineering, Special Issue on Software Architecture and Modeling for Industrial Internet of Things, 2015
 - Guest Editor for IEEE Transactions on Multimedia, Special Issue on Cloud-based Video Processing and Content Sharing, 2015
 - Guest Editor for IEEE Network Magazine, Special Issue on Machine and Robotic Networking, 2011
 - Guest Editor for Journal of Visual Communication and Image Representation (JVCI), Special Issue on Network Technologies for Emerging Broadband Multimedia Services, 2008
 - Guest Editor for IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Cross-layer Optimized Wireless Multimedia Communications, 2006

- Guest Editor for Special Issue on SOFT RADIO-ENABLED HETEROGENEOUS WIRELESS NETWORKS, ACM Mobile Networks and Applications (MONET) Journal, 2005
- Membership of steering committees or advisory boards for international journals
 - Member of the Steering Committee of IEEE Transactions on Network Science and Engineering, 2016–2017
 - Member of the Steering Committee of IEEE Wireless Communications Letters, representing the IEEE Signal Processing Society, January 1, 2014–December 31, 2017
 - Member of the Advisory Board of the EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, January 2014–present
- Chair, Conference Committee, SigPort, IEEE Signal Processing Society, April 2016–present
- Member of the IEEE Signal Processing Society Publications Board, January 1, 2014–December 31, 2017
- Member of the IEEE Signal Processing Society Conference Board, January 1, 2016–December 31, 2017
- Advisor, Interest Group (IG) on Media Streaming, Technical Committee on Multimedia Communications, IEEE Communications Society 2014–present
- Advisor, Interest Group (IG) on Distributed and Sensor Networks for Mobile Media Computing and Applications, Technical Committee on Multimedia Communications, IEEE Communications Society 2014–present
- Chair, Special Committee of Area Chairs, Multimedia Signal Processing (MMSP) Technical Committee, IEEE Signal Processing Society Jan. 2011–Dec. 2012
- Chair, Mobile and wireless multimedia Interest Group (MobIG), Technical Committee on Multimedia Communications, IEEE Communications Society July 2004–June 2010
- Chair, Award Committee, Technical Committee on Multimedia Communications, IEEE Communications Society Sept. 2008–June 2010
- Director of Communication, IEEE Gainesville Section Jan. 2004–Dec. 2005
- Member, Best Paper Award Committee, Technical Committee on Multimedia Communications, IEEE Communications Society July 2004–present
- Member, Best Paper Award Committee, IEEE International Conference on Multimedia and Expo (ICME 2006), Toronto, Canada, July 9–12, 2006.
- Member, EDICS committee for IEEE Transactions on Circuits and Systems for Video Technology Nov. 2007–present
- Organizer or Executive Committee for international conferences
 - Area Chair for IEEE INFOCOM 2023, Tokyo, Japan, April 24–27, 2023.

- Track Chair for IEEE International Conference on Distributed Computing Systems (ICDCS), Track of Machine Learning on or for Distributed Systems, Bologna, Italy, July 10–13, 2022.
- Area Chair for IEEE INFOCOM 2022, London, UK, May 2–6, 2022.
- Member of the Advisory Committee, the 7th International Conference on Machine Learning Technologies, virtual conference, March 11–13, 2022.
- Technical Program Committee Chair for International Conference on Artificial Intelligence, Automation and Algorithm (AI2A 2021), Singapore, July 23–25, 2021.
- Area Chair for IEEE INFOCOM 2021, Vancouver, Canada, May 10–13, 2021.
- Award Chair for NeurIPS 2020 Workshop on Scalability, Privacy, and Security in Federated Learning (SpicyFL 2020), Vancouver, Canada, December 5–12, 2020.
- Technical Program Committee Chair for the 3rd International Conference on Machine Learning and Machine Intelligence (MLMI 2020), Hangzhou, China, September 18–20, 2020.
- Area Chair for IEEE INFOCOM 2020, Beijing, China, April 27–30, 2020.
- General Chair for IEEE International Conference on Smart Internet of Things (SmartIoT), Tianjin, China, August 9–11, 2019.
- Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 13–16, 2019.
- General Chair for IEEE INFOCOM Workshop on Machine Learning for Networking, Paris, France, April 29, 2019.
- Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 18–21, 2018.
- General Chair for IEEE INFOCOM Workshop on Knowledge Centric Networking (KCN), Honolulu, HI, USA, April 16, 2018.
- Conference Board Liaison for IEEE Global Conference on Signal and Information Processing (GlobalSIP), Montreal, Canada, November 14–16, 2017.
- General Chair for International Conference on Smart Internet of Things (SmartIoT), Dalian, Liaoning, China, August 18–19, 2017.
- Technical Program Committee Chair for World Transport Convention, Track for Communication, Navigation and Surveillance in Air Transportation, Beijing, China, June 4–6, 2017.
- Area Chair for IEEE VCIP 2016, Chengdu, Sichuan, P.R. China, November 27–30, 2016.
- General Chair for IEEE Global Conference on Signal and Information Processing (GlobalSIP), Orlando, FL, USA, December 14–16, 2015.
- Technical Program Committee Chair for International Conference on Future Internet Technologies, Seoul, Korea, June 8–10, 2015.
- Area Chair for IEEE INFOCOM 2014, Toronto, Canada, April 27–May 2, 2014.
- Tutorial Chair for Visual Communications and Image Processing (VCIP), Kuching, Sarawak, Malaysia, November 24–27, 2013.
- Panel organizer, IEEE Computer Communications Workshop (CCW), Niagara Falls, Ontario, Canada, November 13–15, 2013.
- Chair, NSF Workshop on Future Directions of Wireless Networking, Arlington, VA, USA, November 4–5, 2013.

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

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

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

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

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

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

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

Keynote/Plenary Speech, Distinguished Lectures

1. “One-Shot Federated Learning for Communication Reduction and Model Compression,” Keynote Speech, the 7th International Conference on Machine Learning Technologies, virtual conference, March 11–13, 2022.

2. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, International Conference on Machine Learning and Machine Intelligence (MLMI), virtual conference, September 17–19, 2021.
3. “Explainable Question Answering for Education,” Keynote Speech, The 2nd International Workshop on Artificial Intelligence for Education (AI4EDU) at The 30th International Joint Conference on Artificial Intelligence (IJCAI 2021), Montreal, Canada, August 20, 2021.
4. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, IEEE 4th International Conference on Computer and Communication Engineering Technology (CCET 2021), virtual conference, August 14, 2021.
5. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, International Conference on Artificial Intelligence, Automation and Algorithms (AI2A 2021), virtual conference, July 24, 2021.
6. “Tensor Product Generation Networks for Deep NLP Modeling,” Keynote Speech, Fifth International Conference on Imaging, Signal Processing and Communications (ICISPC 2021), virtual conference, July 23–25, 2021.
7. “Challenges in AI Security,” Keynote Speech, Symposium on Signal Processing Systems (SSPS), Beijing, China, March 26-28, 2021.
8. “Challenges in AI Security,” Keynote Speech, International Conference on Computational Intelligence and Security (CIS), Nanning, China, November 27-30, 2020.
9. “Security and Privacy Challenges in Deep Learning,” Keynote Speech, International Conference on Machine Learning and Machine Intelligence (MLMI), Hangzhou, China, September 18–20, 2020.
10. “Security and Privacy Issues in Deep Learning for Smart IoT,” Keynote Speech, IEEE International Conference on Smart Internet of Things (SmartIoT), Beijing, China, August 14–16, 2020.
11. “Unification of Deep Learning and Reasoning,” Keynote Speech, International Symposium on Artificial Intelligence and Robotics (ISAIR 2020), Kitakyushu, Japan, August 8–10, 2020.
12. “Airborne Communication Networks: Challenges and Approaches,” Keynote Speech, IEEE Globecom 2019, Workshop on Computing-Centric Drone Networks, Waikoloa, HI, USA, December 13, 2019.
13. “Airborne Communication Networks: Challenges and Approaches,” Keynote Speech, the 18th IEEE International Conference on Ubiquitous Computing and Communications (IUCC-2019), Shenyang, Liaoning, China, October 21, 2019.
14. “Airborne Communication Networks: Challenges and Approaches,” IEEE Distinguished Lecture, University of Sydney, Sydney, Australia, July 31, 2019.
15. “Airborne Communication Networks: Challenges and Approaches,” IEEE Distinguished Lecture, Swinburne University of Technology, Melbourne, Victoria, Australia, July 29, 2019.
16. “Tensor Product Generation Networks for Deep NLP Modeling,” Keynote Speech, ACM Turing Celebration Conference – China (ACM TURC 2019), Chengdu, Sichuan, China, May 18, 2019.
17. “Airborne Networks for Internet of Things,” Keynote Speech, Forum on AI-Enabled Internet of Things, Chongqing, China, May 15, 2019.

18. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, China Cloud Computing and Internet of Things Conference, Chongqing, China, May 14, 2019.
19. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, International Conference on Digital Image and Signal Processing (DISP), St Hugh’s College, Oxford University, United Kingdom, April 29, 2019.
20. “Unification of Deep Learning and Reasoning,” Keynote Speech, the 14th International Conference on Computational Intelligence and Security (CIS), Hangzhou, Zhejiang, P. R. China, November 17, 2018.
21. “Knowledge Centric Networking: From Internet+ to AI+,” Keynote Speech, ShanghaiTech Workshop on Information, Learning and Decision (SWILD), Shanghai, P. R. China, June 30, 2018.
22. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, ACM Turing Celebration Conference – China (ACM TURC 2018), Shanghai, China, May 19–20, 2018.
23. “Network Science and Its Application,” Plenary Speech, the 13th Chinese Conference on Complex Networks (CCCN 2017), Shenzhen, Guangdong, China, November 25, 2017.
24. “Knowledge Centric Networking: Challenges and Opportunities,” Keynote Speech, the 7th IET International Conference on Wireless, Mobile & Multimedia Networks (ICWMMN), Beijing, China, November 18, 2017.
25. “Multimedia over Future Internet: Challenges and Opportunities,” Bradley Distinguished Lecture, Virginia Tech, Blacksburg, VA, USA, April 14, 2017.
26. “Why Deep Learning Works?” Keynote Speech, International Conference on Cloud Computing and Big Data (CloudCom-Asia), Hong Kong, June 7–9, 2016.
27. “Multimedia over Future Internet: Challenges and Opportunities,” Keynote Speech, International Conference on Future Internet Technologies (CFI), Seoul, Korea, June 8–10, 2015.
28. “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.
29. “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. “Knowledge Centric Networking: Challenges and Opportunities,” Inaugural Lecture, IEEE TNSE Distinguished Lecture Series, June 24, 2022.
2. “Artificial Intelligence in Drug Discovery,” Princeton Biomedical Seminar Series, Princeton, NJ, USA, October 7, 2021.
3. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Purdue University, West Lafayette, IN, USA, July 21, 2008.
4. “A Target Detection Scheme for VHF SAR Ground Surveillance,” Invited Seminar, Air Force Research Laboratory, Dayton, OH, USA, July 16, 2008.
5. “Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks,” Invited Seminar, Ohio State University, Columbus, OH, USA, July 11, 2008.
6. “Power-Constrained Multimedia Communication over Wireless Networks,” Invited Seminar, Intel Labs, Portland, Oregon, USA, April 28, 2008.
7. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Tsinghua University, Beijing, P. R. China, August 17, 2007.
8. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 16, 2007.
9. “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.
10. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Peking University, Beijing, P. R. China, August 15, 2007.
11. “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” Invited Seminar, Intel China Research Center, Beijing, P. R. China, August 15, 2007.
12. “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.
13. “Cross-Layer Design for Power-Constrained Wireless Multimedia Communication,” Invited Seminar, Tsinghua University, Beijing, P. R. China, August 13, 2007.
14. “Ripplet: a New Transform for Feature Extraction and Image Representation,” Invited Seminar, Thomson Corporate Research, Beijing, P. R. China, August 10, 2007.
15. “Motion-Segmentation-Based Change Detection,” Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.

16. "Robust Feature-based Object Tracking," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, August 2, 2007.
17. "Cross-Layer Design for Power-Constrained Wireless Multimedia Communication," Invited Seminar, Intel Labs, Portland, Oregon, USA, July 23, 2007.
18. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Toledo, Toledo, Ohio, USA, July 7, 2007.
19. "Feature-based Object Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 27, 2007.
20. "Motion-Segmentation-Based Approach for Change Detection, Image Registration and Tracking," Invited Seminar, Wright Brothers Institute, Dayton, Ohio, USA, June 14, 2007.
21. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar, University of Maryland, College Park, USA, May 2, 2007.
22. "Delay-Constrained Wireless Networking: Where Shannon Meets Erlang," Invited Seminar (CS Colloquium), University of Illinois, Urbana-Champaign, USA, November 6, 2006.
23. "Change Detection: Current State of the Art and Future Directions," Invited Seminar, Air Force Research Laboratory, Dayton, Ohio, USA, September 21, 2006.
24. "Multi-view Image Processing: Current State of the Art, Challenges, and Future Directions," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 18, 2006.
25. "Channel Coding: Theory and Applications," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 17, 2006.
26. "Distributed Video Coding for Sensor Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, August 16, 2006.
27. "Distributed Video Coding for Sensor Networks," Invited Seminar, Microsoft Research Asia, Beijing, P. R. China, August 11, 2006.
28. "Distributed Video Coding for Sensor Networks," Invited Seminar, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P. R. China, August 4, 2006.
29. "Uplink Medium Access Control for WLANs with Multi-beam Access Point," Invited Seminar, Intel China Research Center, Beijing, P. R. China, July 28, 2006.
30. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Intel Labs, Portland, Oregon, USA, May 12, 2006.
31. "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.
32. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, HP Labs, Palo Alto, CA, USA, May 10, 2006.
33. "Detecting Distributed Denial-of-Service Attacks Using Pattern Classification Techniques," Invited Seminar, Narus Inc., CA, USA, May 10, 2006.

34. "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.
35. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of California, Los Angeles, USA, May 8, 2006.
36. "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.
37. "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.
38. "Streaming Video over the Internet," Invited Seminar, Intel China Research Center, Beijing, P. R. China, December 26, 2005.
39. "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," Invited Seminar, Tsinghua University, Beijing, P. R. China, December 22, 2005.
40. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Peking University, Beijing, P. R. China, December 21, 2005.
41. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, University of Missouri, Columbia, MO, USA, November 28, 2005.
42. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Polytechnic University, Brooklyn, NY, USA, October 17, 2005.
43. "Secure and Scalable Multimedia Streaming," Invited Seminar, IBM T. J. Watson Research Center, Hawthorne, NY, USA, October 14, 2005.
44. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Columbia University, New York, NY, USA, October 13, 2005.
45. "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.
46. "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.
47. "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.
48. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Tsinghua University, Beijing, P. R. China, May 30, 2005.
49. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Yonsei University, Seoul, Korea, May 19, 2005.
50. "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.

51. "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.
52. "Streaming Video over the Internet," Invited Seminar, SHARP Labs of America, Camas, Washington, USA, March 5, 2004.
53. "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.
54. "Effective Capacity Approach to Providing Statistical Quality-of-Service Guarantees in Wireless Networks," Invited Seminar, Department of Electrical & Computer Engineering, North Carolina State University, USA, February 28, 2003.

On-campus Seminars and Presentations

1. "Stationary-Sparse Causality Network Learning," Department of Mathematics, University of Florida, November 13, 2014.
2. "Motion-Segmentation-Based Change Detection," University of Florida, April 3, 2008.
3. "Image Registration Techniques," Department of Electrical & Computer Engineering, University of Florida, September 20, 2007.
4. "Change Detection: Current State of the Art and Future Directions," Department of Electrical & Computer Engineering, University of Florida, September 13, 2007.
5. "Feature-based Object Tracking," Department of Electrical & Computer Engineering, University of Florida, September 6, 2007.
6. "Streaming video (IPTV) over the Internet," ECE Brown Bag Seminar Series, Department of Electrical & Computer Engineering, University of Florida, January 31, 2006.
7. "Multimedia Communications: Current State of the Art, Challenges, and Future Directions," ECE Brown Bag Seminar Series, Department of Electrical & Computer Engineering, University of Florida, August 31, 2004.
8. "Research in Multimedia Communications & Networking," New Graduate Student Orientation, Department of Electrical & Computer Engineering, University of Florida, August 19, 2004.
9. "Streaming video over the Internet," ECE Research Day Seminar Series, Department of Electrical & Computer Engineering, University of Florida, April 23, 2004.
10. "An Objective and Secure Reputation-based Incentive Scheme for Ad-hoc Networks," Wireless Information Networking Group (WING) Seminar Series, University of Florida, November 3, 2003.

Conference Presentations

1. "Game Theoretical Approach for Non-Overlapping Community Detection," *International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.

2. "Semantic Tensor Product for Image Captioning," *International Conference on Big Data Computing and Communications (BIGCOM2019)*, QingDao, China, August 9–11, 2019.
3. "A Repeated Stochastic Game Approach for Strategic Network Selection in Heterogeneous Networks," *IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
4. "Course Recommendation of MOOC with Big Data Support: A Contextual Online Learning Approach," *IEEE International Conference on Computer Communications (INFOCOM)*, Workshop on Knowledge Centric Networking, Honolulu, HI, USA, April 16, 2018.
5. "Unequal Error Protection for Video Streaming using Delay-aware Fountain Codes," *IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
6. "Routing Protocol Design for Drone-Cell Communication Networks," *IEEE International Conference on Communications (ICC)*, Paris, France, May 21–25, 2017.
7. "Enhanced Routing Protocol for Fast Flying UAV Network," *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, Guangdong, China, December 14–16, 2016.
8. "Storage-Retrieval-Repair Cost Tradeoff in Network-Coded Distributed Storage Systems," *IEEE Global Telecommunications Conference (Globecom)*, Workshop on Cloud Computing Systems, Networks, and Applications, Washington, DC, USA, December 4–8, 2016.
9. "QoS-aware Scheduling for Small Cell Millimeter Wave Mesh Backhaul," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
10. "MPC-based Delay-Aware Fountain Codes for Live Video Streaming," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 23–27, 2016.
11. "Evaluation of Image Quality of Experience in Consideration of Viewing Distance," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015)*, Chengdu, Sichuan, China, July 12–15, 2015.
12. "No-Reference Image Quality Assessment Based on BNB Measurement," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
13. "Delay-Power-Rate-Distortion Model for H.264 Video Coding," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
14. "Self-Organizing-Queue Based Clustering," *IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2013)*, Beijing, China, July 6–10, 2013.
15. "Smoothing the Energy Consumption: Peak Demand Reduction in Smart Grid," *IEEE INFOCOM 2013*, Turin, Italy, April 14 – 19, 2013.
16. "Identification of Network Dynamics and Its Applications," AFOSR Sensing Surveillance Navigation Program Review Workshop 2011, Shalimar, FL, USA, June 14 – 15, 2011.
17. "Secrecy Capacity with Leakage Constraints in Fading Channels," *IEEE Global Telecommunications Conference (Globecom 2010)*, Miami, FL, USA, December 6 – 10, 2010.

18. "Ripplet-II Transform for Feature Extraction," *SPIE Visual Communications and Image Processing (VCIP 2010)*, Huang Shan, An Hui, China, July 11–14, 2010.
19. "Experimental study on GMM-based speaker recognition," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
20. "Depth-based image registration," *SPIE Defense & Security Symposium 2010*, Orlando, FL, USA, April 5–9, 2010.
21. "Advanced Techniques for Scene Analysis," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
22. "Diversity Combining Approach for Tracking of Multiple Objects under Partial Occlusion," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 11–12, 2009.
23. "Study of video distortion for real-time video transmission over wireless channels," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
24. "Identifying hidden voice and video streams," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
25. "Tracking of multiple objects under partial occlusion," *SPIE Defense & Security Symposium 2009*, Orlando, FL, USA, April 13–17, 2009.
26. "Analysis of Packet Error Probability in Delay Constrained Communication over Fading Channels," *IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.
27. "QoS-Driven Power Allocation for Multi-channel Communication under Delayed Channel Side Information," *IEEE CCNC 2009*, Las Vegas, Nevada, USA, January 10–13, 2009.
28. "Image representation by compressed sensing," *IEEE International Conference on Image Processing 2008*, San Diego, CA, USA, October 12–15, 2008.
29. "Ripplet transform for feature extraction," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
30. "A Target Detection Scheme for VHF SAR Ground Surveillance," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
31. "Motion-Segmentation-Based Approach for Change Detection, Image Registration and Tracking," *Air Force ATR Center Summer Workshop*, Dayton, OH, USA, August 12–14, 2008.
32. "Ripplet transform for feature extraction," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
33. "A rotation-invariant transform for target detection in SAR images," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
34. "A target detection scheme for VHF SAR ground surveillance," *Proceedings of SPIE Defense & Security Symposium 2008*, Orlando, FL, USA, March 16–20, 2008.
35. "Ripplet: a New Transform for Feature Extraction and Image Representation," *Sensors Technology Algorithm Research (STAR) Workshop*, Dayton, OH, USA, July 25–26, 2007.

36. "Motion-Segmentation-Based Change Detection," *SPIE Defense & Security Symposium 2007*, Orlando, FL, USA, April 9–13, 2007.
37. "Design of Bloom Filter Array for Network Anomaly Detection," IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
38. "Power Control and Dynamic Channel Allocation for Delay Sensitive Applications in Wireless Networks," IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
39. "A Countermeasure to Defend Against Relay Attacks in Wireless Networks," IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
40. "An Efficient Proactive Share Refreshing Scheme for Secret Sharing in Distributed Systems," IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006.
41. "QoS Support for Streaming Media using a Multimedia Server Cluster," IEEE Global Telecommunications Conference (Globecom 2006), San Francisco, CA, USA, November 27 – December 1, 2006. On behalf of the authors: K. Ratakonda, D. S. Turaga, and J. Lai.
42. "A Power-Saving Multi-radio Multi-channel MAC Protocol for Wireless Local Area Networks," IEEE INFOCOM 2006, Barcelona, Spain, April 24 – 27, 2006.
43. "Physical Carrier Sensing and Spatial Reuse in Multirate and Multihop Wireless Ad Hoc Networks," IEEE INFOCOM 2006, Barcelona, Spain, April 24 – 27, 2006. On behalf of the authors: Hongqiang Zhai and Yuguang Fang.
44. "Uplink Medium Access Control for WLANs with Multi-beam Access Point," IEEE Globecom 2005, St. Louis, MO, USA, November 28 – December 2, 2005.
45. "A Hyper-Trellis based Turbo Decoder for Wyner-Ziv Video Coding," IEEE Globecom 2005, St. Louis, MO, USA, November 28 – December 2, 2005.
46. "Effective Capacity Channel Model for Frequency-selective Fading Channels," IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005), Orlando, Florida, USA, August 22–24, 2005.
47. "TCP Streaming for Low-Delay Wireless Video," IEEE Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, (QShine 2005), Orlando, Florida, USA, August 22–24, 2005. On behalf of the authors: Chi-Fai Wong, Wai-Lam Fung, Chi-Fai Jack Tang, S.-H. Gary Chan.
48. "Accumulative Visual Information in Wireless Video Sensor Network: Definition and Analysis," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.
49. "Authentication, Authorization, and Accounting for Real-Time Secondary Market Services," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.
50. "Performance Analysis of A Burst-Frame-Based MAC Protocol for Ultra-Wideband Ad Hoc Networks," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005.

51. "Online Identification of Multi-Attribute High-Volume Traffic Aggregates Through Sampling," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005. On behalf of the authors: Yong Tang and Shigang Chen.
52. "DoS analysis of reservation based (wireless) MAC protocols," IEEE International Conference on Communications (ICC 2005), Seoul, Korea, May 16 - 20, 2005. On behalf of the authors: Rohit Negi and Arjunan Rajeswaran.
53. "A Model-based Adaptive Motion Estimation Scheme Using Renyi's Entropy for Wireless Video," IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13-14, 2004.
54. "Look-Ahead Processing and Joint Rate Control for Multiple JVT Video Encoders," IEEE International Packet Video Workshop (PV2004), Irvine, CA, USA, December 13-14, 2004.
55. "A Dual-channel MAC Protocol for Mobile Ad Hoc Networks," IEEE Workshop on Wireless Ad Hoc and Sensor Networks, in conjunction with IEEE Globecom 2004, Dallas, Texas, USA, November 29, 2004.
56. "Effective Capacity-Based Quality of Service Measures for Wireless Networks," Proc. IEEE/ACM BroadNets 2004, Broadband Wireless Networking Symposium, San Jose, CA, USA, October 25-29, 2004.
57. "Analyzing and Preventing MAC-Layer Denial of Service Attacks for Stock 802.11 Systems," Proc. IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.
58. "A Mechanism for Personal Control over Mobile Location Privacy," Proc. IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE 2004), San Jose, CA, USA, October 25, 2004.
59. "SORI: A Secure and Objective Reputation-based Incentive Scheme for Ad-hoc Networks," Proc. IEEE Wireless Communications and Networking Conference (WCNC 2004), Atlanta, GA, USA, March 21-25, 2004.
60. "Downlink Scheduling in a Cellular Network for Quality of Service Assurance," Proc. IEEE Vehicular Technology Conference (VTC) Fall 2003, Orlando, Florida, USA, October 4-9, 2003.
61. "A Wireless Channel Model for Support of Quality of Service," Proc. IEEE Global Communications Conference (GLOBECOM'01), San Antonio, Texas, USA, Nov. 25-29, 2001.
62. "Efficient Bandwidth Allocation and Call Admission Control for VBR Service Using UPC Parameters," Proc. IEEE INFOCOM'99, pp. 1044-1052, New York, USA, Mar. 21-25, 1999.
63. "TCP/IP over ATM-GFR," Proc. IEEE ATM Workshop (ATM'98), pp. 360-367, Fairfax, Virginia, USA, May 26-29, 1998.