

Xiang-Gen Xia

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Citizenship U.S.A.

Education

12/1992 **Ph.D. in Electrical Engineering**
 Communication Sciences Institute, EE-Systems
 University of Southern California, Los Angeles, CA

12/1989 **M.S. in Applied Mathematics**
 University of Cincinnati, Cincinnati, OH

7/1986 **M.S. in Mathematics**
 Nankai University, Tianjin, P.R.China

7/1983 **B.S. in Mathematics**
 Nanjing Normal University, Nanjing, P.R.China

Experience

9/2007 – **Charles Black Evans Professor** (endowed)
 9/2002 – **Professor** (tenured)
 9/1999 – 8/2002 **Associate Professor** (tenured)
 9/1996 – 8/1999 **Assistant Professor**
 Department of Electrical and Computer Engineering
 University of Delaware, Newark, DE

12/2002 – **Professor** (joint)
 Department of Mathematical Sciences
 University of Delaware, Newark, DE

11/2023 – 12/2023 **Distinguished Visiting Scholar**
 University of Macau, Macau, China

4/2009 – 8/2013 **Chair Professor** (visiting) in the World Class University (WCU) Program
 Chonbuk National University, South Korea

3/2009 – 3/2012 **Kumar's Chair Professor Group (Guest) Professor**
 Department of Electronic Engineering

Tsinghua University, China

1/2004 – 12/2013

Adjunct Professor

8/2002 – 7/2003

Visiting Professor

Department of Electronic Engineering

The Chinese University of Hong Kong, Hong Kong

1/2003 – 12/2007

Adjunct Research Professor

Applied Math Center

Delaware State University, Dover, DE

9/1997 – 8/1998

Consultant

Hughes Network Systems, Germantown, MD

1/1996 – 8/1996

Senior Research Staff

3/1995 – 12/1995

Research Staff Member

Hughes Research Laboratories, Malibu, CA

11/1993 – 2/1995

Research Scientist

Department of Electrical and Computer Engineering

Air Force Institute of Technology, Wright-Patterson Air Force Base, OH

6/1993 – 10/1993

Research Associate

Department of Electrical Engineering-Systems

University of Southern California, Los Angeles, CA

2/1993 – 5/1993

Visiting Scholar

Department of Mathematical Sciences

University of Delaware, Newark, DE

9/1990 – 1/1993

Research Assistant

Department of Electrical Engineering-Systems

University of Southern California, Los Angeles, CA

9/1988 – 6/1990

Teaching Assistant

Department of Mathematical Sciences

University of Cincinnati, Cincinnati, OH

9/1986 – 7/1988

Lecturer

9/1983 – 7/1986

Research Assistant

Department of Mathematics

Nankai University, Tianjin, P.R.China

Awards and Honors

2025 – The 2025 ICT Express Best Editor Award from *ICT Express*

- 2024 – 2023 Best Paper Award from *IEEE Transactions on Services Computing*,
the IEEE Computer Society
- 2023 – The Clarivate’s 2023 Highly Cited Researchers in the World
- 2020 – The Clarivate’s 2020 Highly Cited Researchers in the World
- 2019 – The 2019 Information Theory Outstanding Overseas Chinese Scientist Award,
The Information Theory Society of Chinese Institute of Electronics
- 2009 – World Class University (WCU) Professorship (visiting), South Korea
- 2009 – Kumar’s Group Professorship in Wireless Communications (guest),
Tsinghua University, China
- 2009 – Fellow of IEEE
- 2007 – Named Professorship, College of Engineering, University of Delaware
- 2001 – The Outstanding Overseas Young Investigator Award,
the National Natural Science Foundation of China
- 2001 – The Outstanding Junior Faculty of Engineering Award,
the College of Engineering, University of Delaware
- 1998 – The Office of Naval Research Young Investigator Program (**ONR YIP**) Award
- 1997 – The National Science Foundation Faculty Early Career Development (**NSF CAREER**)
Award
- 1992 – Travel Grant from the 1993 IEEE International Symposium on Information Theory,
San Antonio, Texas
- 1988 – The National Natural Science Foundation Young Investigator Award of China
- 1989 – Summer Fellowship in the University of Cincinnati
- 1983 – Best Thesis Award in Nanjing Normal University

Research Grants

- PI, CIF: Small: Multidimensional Remaindering Theory and Applications, National Science Foundation (NSF), \$476,477, August 1, 2023 to July 31, 2026.
- Co-PI: High-throughput FPGA of Wavelet Denoising, PDF Solutions, 10/30/2023 8/31/2024, \$40,000, PI: Chengmo Yang, Co-PI: Xiang-Gen Xia.
- Co-PI, Vehicle Data Compression, Daimler Truck AG, \$308,826, 2023-2025, PI: Kenneth Barner, Co-PIs: Xiang-Gen Xia and Javier Garcia-Frias.
- Co-PI, NeTS: Medium: Collaborative Research: In-Band Full-Duplex Underwater Acoustic Networks, National Science Foundation (NSF), PI: Len Cimini, and other Co-PIs, Aijun Song and C.-C. Shen, total \$630,000 and the UD part is \$215,000, June 1, 2017 to May 31, 2023.
- PI, Design and Optimization on Flexible Duplexing based Wireless Communication Systems, Huawei, Inc., \$70,000, 2016 – 2017.
- Co-PI, Fundamental Limits of Wireless Data Transmission over Interference Channels Australian Research Council Discovery, AU\$360,000, PI: Wei Zhang, the University of New South Wales, 2016-2018. This fund is located in the University of New South Wales, Australia.

- Co-PI, Massive MIMO Systems, Key International Collaborative Research Program, National Natural Science Foundation of China, over 3,000,000 Chinese Yuan, Jan. 1, 2014 – Dec. 31, 2018, PI: Xiqi Gao, other Co-PIs: Chengshan Xiao and Kit Wong. This fund is located in Southeast University, Nanjing, China.
- PI, Robust Modulo Remaindering and Applications in Radar and Sensor Signal Processing, the Air Force Office of Scientific Research (AFOSR), \$237,390, 2012 – 2015.
- PI, Coding and Modulation for Broadband Multiple Antenna Systems, National Natural Science Foundation of China, 200,000 Chinese Yuan (about \$32,000), 1/1/2012–12/31/2013. This is an international collaborative research grant and located in Tsinghua University, China.
- PI, CIF: Medium: Collaborative Research: Explicit Codes for Efficient Operation of Wireless Networks, National Science Foundation (NSF), \$242,479, 8/2010 – 7/2014.
- Co-PI, Anomaly Pattern Analysis, Michelin, PI: Javier Garcia-Frias, Co-PI: Gonzalo Arce, \$100,000, 4/2011-3/2012.
- PI, Space-Time Codes for Interference Alignment, Huawei Technologies, \$80,000, 1/2010 – 12/2010.
- PI, Mitigation of Radar Clutter Using Algorithmic Techniques, MDA Phase II, sub-contracted from Signal Processing, Inc., \$134,999, 7/2009 – 12/2011.
- Co-PI, Efficient signal transmission techniques for future wireless communications systems, the Australian Research Council, (The PI is Wei Zhang at The University of New South Wales, Australia), AU\$150,000, 1/2010 – 12/2012. This grant is located in Australia.
- Co-PI, Distributed Space-Time Coding for Cooperative Communication Systems, HK\$549,318, RGC grant, Hong Kong, (The PI is P. C. Ching, The Chinese University of Hong Kong, also Co-PI with Wei Zhang at The University of New South Wales, Australia), 2010 – 2012. This grant is located in Hong Kong.
- Co-PI, Adaptive resource allocation in high speed wireless transmissions, Ministry of Science and Technology of China (MOST), about \$500,000, (The PI is Jiangzhou Wang, Southeast University, China), 1/2009 – 6/2013. This grant is located in Southeast University, Nanjing, China.
- Co-PI, Space Time MIMO-OFDM Coded Cooperative Wireless Networks, World Class University (WCU) Program, South Korea, about \$2,000,000, 2009 – 2013. The PI is Prof. Moon Ho Lee, The Chonbuk National University, South Korea. This grant is located in South Korea.
- PI, Low complexity receiver based space-time codes for broadband wireless communications, the Air Force Office of Scientific Research (AFOSR), \$204,406, 3/2008 – 11/2010.
- PI, A novel and high performance framework for detecting, tracking, and identifying dim targets, MDA Phase I, subcontracted from Signal Processing, Inc., \$20,998 2008.

- Co-PI, Inverse scattering theory for MIMO radar with applications in wall penetration, the Army Research Office, PI is Fengshan Liu at the Delaware State University. Total \$500,000 (my part/budget is \$200,000), 6/2007 – 5/2010.
- PI, Advanced Coding and Modulation for MIMO-OFDM Systems, Huawei Technologies, \$80,000, 2008.
- PI, Space-time coding using algebraic number theory for broadband wireless communications, the Air Force Office of Scientific Research (AFOSR), \$269,897, 3/2005 – 2/2008.
- PI, ITR Collaborative Research: Achieving the Rate-Diversity Tradeoff in Space-Time Codes, ITR Medium, the National Science Foundation, \$420,000, 9/2003-8/2008. (Leading PIs are Vijay Kumar and Zhen Zhang at USC and another PI is Roger Hammons at the John Hopkins Univ. The total award for 4 PIs is \$1,680,000).
- Co-PI, Co-Existence of Broadband Wireless Systems, Intel Beijing Communications Research Lab., \$90,000, 1/2006-12/2008, (PI is Zhisheng Niu at Tsinghua University and the grant is located at Tsinghua University, China).
- Co-PI, A New Vector Orthogonal Frequency Division Multiplexing for Broadband Communication Systems, RGC, Hong Kong, HK\$410,000, 9/2003-8/2005. (PI is P. C. Ching at the Chinese University of Hong Kong (CUHK) and the grant is located at the CUHK).
- Co-PI, DoD for an Applied Mathematics Research Center at DSU, \$4,000,000, 9/2003-8/2008. (There are several Co-PIs and the PI is Fengshan Liu at the Delaware State University (DSU) and the grant is located at the DSU).
- PI, Space-Time Code Designs for Broadband Wireless Communications, the Air Force Office of Scientific Research (AFOSR), \$261,452, 3/2002 – 2/2005.
- PI, Modulated Coding for Frequency-Selective Multipath Channels, the National Science Foundation, \$299,100.00, 9/2001-8/2006. + \$12,000 REU.
- PI, SAR and ISAR Imaging of Moving Targets, the Outstanding Overseas Young Investigator Award of China, the National Nature Science Foundation of China, 400,000 Chinese Yuan (about US\$50,000), 1/2002-12/2004. (The grant is located at Tsinghua University, China).
- PI, Space-time code designs, Collaborative Technology Alliances, Army Research Lab., \$150,000, 9/2001 - 9/2004.
- CO-PI, Vector multiresolution inverse scattering and target detection in multifrequency ground penetrating radar imaging, Sponsored by the Army Research Office, \$180,000, 8/2001-7/2004. (PI is Fengshan Liu at the Delaware State University and the grant is located at the DSU).
- PI, Adaptive discrete chirp-Fourier transform with applications in over-the-horizon radar, Sponsored by the Office of Naval Research, \$300,000.00, 10/2000-9/2004.

- PI, Modulated coding for digital communication systems under ISI/Multipath fading and jamming, Sponsored by the Air Force Office of Scientific Research (AFOSR), \$153,963, 1/2000-12/2001.
- PI, Noise analysis and reduction for joint time-frequency/time-scale transformations with applications in ISAR/SAR imaging, Sponsored by the Office of Naval Research (ONR) Young Investigator Program (YIP), \$349,000, 6/1998-5/2001.
- PI, Modulated coding: a new digital communication system, Sponsored by the University of Delaware Research Foundation, \$30,000, 6/1999-5/2000.
- PI, Modulated coding: a new digital communication system, Sponsored by the University of Delaware Research Foundation, \$30,000, 6/1998-5/1999.
- PI, Modulated coding for digital communication systems under ISI/Multipath fading and jamming, Sponsored by the Air Force Office of Scientific Research (AFOSR), \$136,961, 1/1998-12/1999.
- PI, Intersymbol/interchannel interference cancellation using multirate filterbanks, Sponsored by the National Science Foundation Career Program, \$212,665, 6/1997-5/2001.
- PI, Two dimensional Malvar wavelets and their applications in image/video compression, Sponsored by the Air Force Office of Scientific Research (AFOSR), \$67,084, 1/1997-12/1997.
- PI (Lon Sunshine) and AI (Gonzalo Arce, Charles Boncelet and Xiang-Gen Xia), Multimedia image compression for the Army needs, Sponsored by the Army Research Laboratory through the Advanced Telecommunications and Information Distribution Research Program (ATIRP), 8/1998-7/1999, \$150,000.
- PI (Richard Graveman) and COPI (Gonzalo Arce, Charles Boncelet and Xiang-Gen Xia), Image and Video Watermarking, Sponsored by the Army Research Laboratory through the Advanced Telecommunications and Information Distribution Research Program (ATIRP), 4/1997 - 9/1999, \$260,000.

Pending Research Grants

Courses Taught

- ELEG 834, Advanced Topics in Signal Processing. This is a new course for graduate students in the ECE Dept.
- ELEG 667 and ELEG 668, Detection and Estimation. This is a new course for graduate students in the ECE Dept.
- ELEG630, Information Theory. This is a foundation course for graduate students in the ECE Dept.
- ELEG636, Statistical Signal Processing. This is a foundation course for graduate students in the ECE Dept.

- ELEG635, Digital Communications. This is a foundation course for graduate students in the ECE Dept.
- ELEG867, Advanced Topics in Communications, Wireless Digital Communications
- ELEG867, Digital Wireless Communications
- ELEG631, Digital Signal Processing. This is a foundation course for graduate students in the ECE Dept.
- EE 340, Analog and Digital Communications in Noise, Chinese University of Hong Kong.
- ELEG306, Signal Processing II
- ELEG867, Wavelets and Filter Banks.

Research Supervision

Current Graduate Students

- **Guangpu Guo**, starting from 9/2024.

Visiting Professors/Scholars/Students and Post-Doctoral Researchers

- **Haiyue Jing** (from 11/2019 to 10/2021), visiting from Xidian University, China.
- **Pei Ye** (from 9/2018 to 9/2020), visiting from Xidian University, China.
- **Caixia Cai** (from 9/2017 to 9/2019), visiting from Donghua University, China.
- **Xuejing Zhang** (from 9/2017 to 9/2019), visiting from University of Electronic Science and Technology of China, China.
- **Jingfeng Zhang** (from 12/2017 to 12/2018), visiting from Shenzhen University, China.
- **Qin Wang** (from 9/2017 to 9/2018), visiting from Huazhong National University, China.
- **Dan Bao** (from 3/2017 to 3/2018), visiting from Xidian University, China.
- **Gaogao Liu** (from 1/2017 to 1/2018), visiting from Xidian University, China.
- **Cai Liu** (from 12/2016 to 11/2017), visiting from Xidian University, China.
- **Guozhen Liu** (from 9/2015 to 10/2017), visiting from University of Electronic Science and Technology of China.
- **Kai Liu** (from 10/2016 to 10/2017), visiting from Beijing Jiaotong University, China.
- **Xuefei Xu** (from 9/2016 to 9/2017), visiting from Xidian University, China.

- **Fuli Zhong** (from 9/2015 to 9/2017), visiting from University of Electronic Science and Technology of China.
- **Ran Tao** (from 12/2016 to 3/2017), visiting from Beijing Intitute of Technology.
- **Hao Huan** (from 12/2016 to 12/2017), visiting from Beijing Intitute of Technology.
- **Mingfeng Lu** (from 12/2016 to 12/2017), visiting from Beijing Intitute of Technology.
- **Feng Zhang** (from 12/2016 to 12/2017), visiting from Beijing Intitute of Technology.
- **Xuan Rao** (from 12/2016 to 12/2017), visiting from Nanchang Hangkong University.
- **Mingwei Shen** (from 9/2016 to 8/2017), visiting from Hehai University.
- **Lingyun Xu** (from 9/2016 to 8/2017), visiting from Nanjing University of Aeronautics and Astronautics.
- **Zhigang Chen** (from 9/2016 to 8/2017), visiting from Xian Jiao Tong University.
- **Lei Wang** (from 9/2016 to 8/2017), visiting from Xian Jiao Tong University.
- **Lihua Xu** (from 1/2016 to 12/2016), visiting from Southwest Jiao Tong University.
- **Yingying Yu** (from 9/2015 to 8/2016), visiting from Southeast University.
- **Qiang Sun** (from 2/2016 to 8/2016), visiting from Nantong University.
- **Yanling Shi** (from 9/2015 to 5/2016), visiting from Nanjing University of Post and Telecommunications.
- **Yuanyuan Gao** (from 9/2015 to 8/2016), visiting from Nanjing University of Post and Telecommunications.
- **Xiaoyan Lin** (from 9/2015 to 8/2016), visiting from Harbin Univ. of Technologies.
- **Lin Mei** (from 9/2015 to 8/2016), visiting from Harbin Institute of Technology (BIT).
- **Wei Peng** (from 9/2014 to 8/2016), visiting from University of Electronic Science and Technology of China.
- **Beiyu Wei** (from 12/2015 to 5/2016), visiting from Nanjing University of Aeronautics and Astronautics.
- **Fangqing Wen** (from 10/2015 to 2/2016), visiting from Nanjing University of Aeronautics and Astronautics.
- **Min Wu** (from 9/2014 to 9/2015), visiting from Xidian University.
- **Xin Meng** (from 9/2014 to 9/2015), Large MIMO systems, visiting from Southeast University.
- **Dejin Kong** (from 9/2013 to 9/2015), visiting from Huazhong University of Science and Technology.

- **Qi Feng** (from 9/2014 to 9/2015), visiting from Nanjing University.
- **Jinhua Sun** (from 10/2014 to 9/2015), visiting from Xidian University, China.
- **Xiaoping Li** (from 12/2013 to 1/2015), visiting from Xi'an Jiao Tong University.
- **Tianxian Zhang** (from 11/2012 to 10/2014), visiting from University of Electronic Science and Technology of China.
- **Da Chen** (from 9/2013 to 8/2014), visiting from Huazhong University of Science and Technology.
- **Xiangbin Yu**, (from 3/2014 to 2/2015), Nanjing University of Aeronautics and Astronautics.
- **Yunhe Cao** (from 12/2013 to 12/2014). Xidian University.
- **Zujun Liu** (from 3/2013 to 2/2014), Xidian University.
- **Mang Liao** (from 2/2013 to 1/2014), Beijing University of Aeronautics and Astronautics.
- **Xiangdong Huang** (from 1/2013 to 12/2013), Tianjin University
- **Weiliang Han** (from 9/2012 to 8/2013), Xidian University.
- **Yong (Mark) Li** (from 1/2012 to 12/2012), Nanjing University of Aeronautics and Astronautics.
- **Shengbo Zhang** (from 11/2012 to 10/2013) Southeast University
- **Jun Shi** (from 10/2011 to 4/2012), Harbin Institute of Technology.
- **Yi Lu** (12/2011 to 2/2012), the University of New South Wales.
- **Guoquan Li** (from 5/2010 to 4/2011), Chengqing University.
- **Yi Liu** (from 4/2011 to 3/2012), Xidian University.
- **Wenjie Wang** (from 11/2009 to 10/2010), Xi'an Jiao Tong University.
- **Long Shi** (12/2010 to 2/2011), the University of New South Wales.
- **Wei Zhang** (from 2/2010 to 1/2011), University of Electronic Science and Technology of China.
- **Harya Wicaksana** (2009-2010), Nanyang Technological University.
- **Jianchao Mu** (from 12/2008 to 11/2009), Beijing Institute of Technology.
- **Hong Liang** (from 4/2008 to 3/2009), Xi'an Polytechnical University.
- **Weiwei Cui** (from 2/2008 to 1/2009), Tsinghua University.
- **Genyuan Wang** (from 5/1998 to 11/2004), Villanova University.

- **Haiquan Wang** (from 4/2001 to 8/2002), Zhe Jiang University.
- **Guangcai Zhou** (from 4/1997 to 8/1997), Lincom.
- **Pingyi Fan** (from 5/1998 to 9/1999), Tsinghua University.
- **Xiao Ma** (from 6/2000 to 10/2000), Zhong Shan University.

Former Graduate Students

- **Mohammad Towliat** (Graduated with Ph.D. in 2023), joint with Len Cimini and Chien-Chung Shen.
- **Li Xiao** (Graduated with Ph.D. in 2017), University of Science and Technology, China.
- **Yuansheng Jin** (Graduated with Ph.D., 2017), Marvell, San Jose, CA.
- **Ze Qu** (Graduated with MS, 2017)
- **Tianyuan Qiu** (Graduated with MS, 2017)
- **Tianyi Xu** (Graduated with Ph.D., 2013), InterDigital, San Diego, CA.
- **Cheng Wang** (Graduated with M.S., 2011), Samsung, Shanghai, China.
- **Xiaowei Li** (Graduated with Ph.D., 2011), KLA and Tencor, San Jose, CA.
- **Zheng Li** (Graduated with Ph.D., 2011), Coats & Bennett PLLC.
- **Zhefeng Li** (Graduated with Ph.D., 2010), AT & T Research Lab., Morristown, NJ
- **Huiming Wang** (Graduated with Ph.D. at Xi'an Jiao Tong University, 2010, Winner of the **Best 100 Ph.D. Thesis Award in China**), Co-advised with Prof. Qin-Ye Yin at Xi'an Jiao Tong University, Associate Professor, Xi'an Jiao Tong University, Xi'an, China.
- **Xiaoyong Guo** (Graduated with Ph.D., 2009), Alcatel-Lucent, Shanghai, China.
- **Feng Tian** (Graduated with Ph.D., 2009, at The Chinese University of Hong Kong), Co-advised with Prof. P. C. Ching at The Chinese University of Hong Kong, CUHK, Hong Kong.
- **Yue Shang** (Graduated with Ph.D., 2008), Apple, Inc.
- **Gang Li** (Graduated with Ph.D., 2007, at Tsinghua University), Co-advised with Prof. Yingning Peng at Tsinghua University, Faculty Member, Tsinghua University.
- **Huiyong Liao** (Graduated with Ph.D., 2006), Bloomberg, New York.
- **Shengli Fu** (graduated with Ph.D., 2005), Tenured Professor and the Department Chair, University of North Texas, TX.
- **Dong Wang** (graduated with Ph.D., 2005), Philips Research Labs., New York.

- **Yabo Li** (Graduated with Ph. D., 2005), MediaTek, CA.
- **Wei Zhang** (Graduated with Ph.D. in Chinese University of Hong Kong, co-advised with Prof. P. C. Ching, 2005), Tenured Professor, The New South Wales University, Australia.
- **Haiquan Wang** (graduated with Ph.D., 2005), Professor, Hangzhou Dianzi University, China
- **Aijun Song** (graduated with Ph.D., 2004), Tenured Associate Professor, University of Alabama
- **Hong Zhang** (graduated with Ph.D., 2004), Broadcom, LA.
- **Weifeng Su** (graduated with Ph.D., 2002), Tenured Professor, SUNY, Buffalo, NY.
- **Xuebin Liang** (graduated with Ph.D., 2001), Tenured Associate Professor, the Louisiana State University.
- **Guoliang Fan** (graduated with Ph.D., 2001), Tenured Full Professor and Chair Professor, the Oklahoma State University.
- **Yongjun Zhang** (graduated with Ph.D., 2001), Oki Semiconductors, Pittsburgh, PA.
- **Qian Xie** (graduated with Ph.D., 2001), Quantenna Communications, CA. Won the Young Alumni Achievement Award at the Department of Electrical and Computer Engineering, University of Delaware, in 2013.
- **Zhiquan He** (from 9/2006 to 8/2007),
- **Kai Bao** (from 9/1997 to 8/1998).
- **Kai Xiao** (graduated with M.S.), Ericsson, CA.
- **Yishan Yang** (graduated with M.S., joint with Ih)
- **Zhongxin Li** (graduated with M.S.), MathWorks, MA.
- **Rong Peng** (graduated with M.S.), NC State Univ.

Professional Activities and Service

- **General Co-Chair** of the ICASSP 2005, Philadelphia.
- **Technical Program Chair** of the Signal Processing Symp., Globecom 2007, Washington, D.C., Nov. 2007.
- **Technical Committee Member** of the *Signal Processing for Communications* Technical Committee in IEEE Signal Processing Society (Jan. 2000 – Dec. 2005).
- **Technical Committee Member** of the *Sensor Array and Multi-channel* Technical Committee in IEEE Signal Processing Society (Jan. 2004 – Dec. 2009).

- **Technical Committee Member** of the *Communication Theory* Technical Committee in IEEE Communications Society.
- **IEEE Sensors Council Representative** (Jan. 2002 – Dec. 2011), IEEE Signal Processing Society.
- **Representative of IEEE Signal Processing Society to the Steering Committee** (2005-2006) for IEEE Transactions on Mobile Computing.
- **Editorial Board Member** (2021 – present), *National Science Open*
- **Editorial Board Member** (2021 – present), *Journal of Information and Intelligence*.
- **Editorial Board Member** (2020 – present), *Journal of Xidian University*.
- **Editorial Board Member** (Jan. 2019 – present), *Journal of Radars*.
- **Associate Editor** (Jan. 2016 – present), *Chinese Journal of Electronics*.
- **Associate Editor** (2015 – present), Information and Communications Express (ICT Express).
- **Editorial Board Member** (Jan. 2012 – present), *Journal of Signal Processing* (China).
- **Associate Editor** (2005 – present), *Journal of Communications and Networks (JCN)*.
- **Associate Editor** (2006 – present), *Journal of Communications (JCM)*.
- **Associate Editor** (Dec. 2012 – Dec. 2022), *Science China – Information Sciences*.
- **Associate Editor** (Jan. 2017 – Dec. 2020), *Chinese Journal on Internet of Things*.
- **Senior Editor** (Jan. 2016 to Dec. 2019), *IEEE Wireless Communications Letters*.
- **Associate Editor** (Jan. 2009 – Aug. 2013), *IEEE Transactions on Signal Processing*.
- **Editor** (Feb. 2007 – June 2012), *IEEE Transactions on Wireless Communications*.
- **Associate Editor** (May 2008 – Jan. 2012), *Signal Processing* (EURASIP).
- **Associate Editor** (Jan. 2005 – Aug. 2008), *IEEE Transactions on Vehicular Technology*.
- **Associate Editor** (Jan. 2003 – Feb. 2008), *IEEE Signal Processing Letters*.
- **Associate Editor** (Dec. 2001 – Mar. 2005), *IEEE Transactions on Mobile Computing*.
- **Associate Editor**, (Jan. 2001 – Jan. 2005), *EURASIP J. on Applied Signal Processing*.
- **Associate Editor** (Dec. 1996 – Jan. 2004), *IEEE Transactions on Signal Processing*.

- **Guest Editor**, (2002), Special Issue on Space-Time Coding and Its Applications in *EURASIP J. on Applied Signal Processing*.
- **Guest Editor**, (2010), Special Issue on Coding and Modulation for Cooperative Communications, *Journal of Communications*.
- **Guest Editor**, (2010), Special Issue on Coordinated and Distributed MIMO, *IEEE Wireless Communications Magazine*.
- **Guest Editor**, (2010-2011), Special Issue on DBWC, *IEEE J. on Selected Areas Communications*.
- **Guest Editor**, (2012-2013), Special Issue on Virtual MIMO Systems, *IEEE J. on Selected Areas Communications*.
- **Finance Chair**, the 2001 IEEE -EURASIP Workshop on Nonlinear Signal and Image Processing, Baltimore, 2001.
- **Technical Program Co-Chair**, The International Conference on Wireless Communications and Signal Processing (WCSP)
Nanjing, China, Nov. 13-15, 2009
Suzhou, China, Oct. 20-23, 2010
Nanjing, China, Nov. 9-11, 2011
Nanjing, China, Oct. 15-17, 2015
Yangzhou, China, Oct. 2016
Nanjing, China, Oct. 2020
Nanjing, China, Oct. 2021
- **Technical Program Chair**, Wireless Communications Symp., ICCCAS 2009, San Jose, CA, July, 2009.
- **Technical Program Co-Chair**, Workshop on Intelligent and Reconfigurable Antennas for Future Wireless Communications and Sensing, Globecom 2024, Cape Town, South Africa, Dec. 8-12, 2024.
- **Technical Program Co-Chair**, Workshop on Intelligent Movable and Reconfigurable Antennas for Future Wireless Communications and Sensing, ICC 2025, Montreal, Canada, June 8-12, 2025.
- **Technical Program Co-Chair**, Workshop on SixDimensional Movable Antennas and Reconfigurable Antennas for Wireless Communication and Sensing, IEEE/CIC International Conference on Communications in China (ICCC) 2025, Aug. 10-13, Shanghai, China.
- **Track Co-Chair**, ChinaSIP for Communications and Networks Track, ChinaSip 2013, Beijing, China, July 6-10, 2013.
- **Track Co-Chair**, ChinaSIP for Multi-channel and Array Signal Processing Track, ChinaSip 2014, Xi'an, China, July 9-13, 2014.
- **Track Chair**, ChinaSIP for Multi-channel and Array Signal Processing Track, ChinaSip 2015, Chengdu, China, July 11-14, 2015.

- The National Science Foundation Panel Member (numerous times).
- The National Natural Science Foundation of China Panel Member, 2002, 2012, 2013, 2014, 2016, 2017.
- The Portugal Foundation of Science and Technology Panel Member, Lisbon, Portugal, 2000 and 2007.
- The Korea Research Foundation, Panel Member for WCI Program, Seoul, Nov. 23, 2009.
- The (Electrical, Electronic, and Computer Science and Engineering) School Evaluation Committee Member, Shanghai Jiaotong University, China, June 2009.
- **International On-Site Evaluation Committee Member**, The College of Electronic and Information Engineering, Beijing Institute of Technology, Nov. 2017.
- **Academic Committee Member**, National and Local Joint Engineering Research Center for Communication and Network Technology, Nanjing University of Posts and Telecommunications, Nanjing, China, from 2017 to present.
- **Conference Technical Program Committee Member**
 - *Communications Theory Symp. in the International Conf. on Communications*, Anchorage, Alaska, June 2003.
 - *14th IEEE International Symp. Personal, Indoor and Mobile Radio Communications*, Beijing, Sept. 2003.
 - *IEEE International Workshop on Signal Processing Advances for Wireless Communications (SPAWC)*, 2004, 2005, 2012, 2022.
 - *Communications Theory Symp. in the International Conf. on Communications*, Paris, France, June 2004.
 - *Communications Theory Symp. in the Globecom 2004*, Dallas, Texas, Nov. 29-Dec. 3, 2004.
 - *Wireless Access in the International Conf. on Vehicle Tech.*, 2004.
 - *Wireless Communications Symp. in the International Conf. on Communications*, Seoul, Korea, May 16-20, 2005.
 - *4th Intern. Conf. on Mobile Business 2005*, Sydney, Australia, July 11-13, 2005.
 - *Communication Theory Symposium of the 2005 International Workshop on Communications, Circuits And Systems (ICCCAS'05)*, Hong Kong, May 27-30, 2005.
 - *14th European Signal Processing Conference (EUSIPCO)*, Florence, Italy, Sept. 4-8, 2006.
 - *IASTED International Conference on Communication Systems and Applications (CSA 2006)*, Banff, Canada from July 03- 05, 2006.
 - *Symposium on Next Generation Mobile Networks (NGMN 2006)*, Vancouver, Canada, July. 3-6, 2006.
 - *CHINACOM*, Beijing, Oct. 16-19, 2006.

- *WCNC'07*, Hong Kong, March, 2007.
- *IASTED International Conference on Communication Systems, Networks and Applications (CSNA 2007)*, Beijing, China, Oct. 8-10, 2007.
- *IEEE Milcom 2007*, OFDM Session Organizer, Oct. 2007.
- *IEEE Radar Conf. 2008*, May 26-29, Rome, Italy.
- *Wireless Communications Symp. in the International Conf. on Communications (ICC)*, Beijing, China, May 19-23, 2008.
- *Signal Processing Symp. in the International Conf. on Communications (ICC)*, Beijing, China, May 19-23, 2008.
- *IEEE International Conference on Circuits and Systems for Communications (ICCSC) 2008*, Shanghai, China, May 26-28, 2008.
- *WCNC'08*, Las Vegas, Nevada, USA, Mar. 31-April 4, 2008.
- International Advisory Committee Member, *2008 IEEE International Conference on Neural Networks and Signal Processing (ICNNSP)*, Nanjing, China, June 2008.
- *IASTED International Conference on Circuits and Systems (CS 2008)*, Kailua-Kona, Hawaii, USA, Aug. 18-20, 2008.
- *European Conference on Signal Processing (EUSIPCO) 2008*, Lausanne, Switzerland, Aug. 25-29, 2008.
- *MESH 2008 (International Conference on Advances in Mesh Networks)*, Cap Esterel, France, August 25-31, 2008.
- *IEEE Milcom 2008 - Wireless Mobile Communications: OFDM Session Organizer*
- *ICCCAS 2008*, Xiamen, China, May 2008.
- *Signal Processing Symp. in Globecom*, New Orleans, Nov. 30-Dec. 4, 2008.
- *IEEE Radio and Wireless Symposium (RWS2009)*, Jan 18-22, San Diego, 2009.
- *Communication Theory Symp. in the ICC*, Dresden, Germany June 14-18, 2009.
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- *Signal Processing Symp. in ICC*, South Africa, 2010.
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- *Signal Processing for Comm. Symp. in Globecom*, Miami, 2010.
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- *PIMRC* 2012, 2022, 2023, 2024, 2025.
- *NTMS* 2012.
- *WCNC*, 2012, 2013, 2015, 2016, 2019, 2020, 2021, 2022, 2023, 2024, 2025.
- *Globecom CT*, 2013, 2014, 2022.
- *Globecom SPC*, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025.
- *Globecom WC*, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025.
- *ICC SPC*, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026.
- *ICC WC*, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026.
- *ICC CT*, 2014, 2015, 2016.
- *IGARSS*, 2014, 2020, 2022, 2023, 2024.
- Reviewer for over 40 Technical Journals.
- Conference Session Chairs of a number of leading IEEE and other Conferences in the areas including ICC, Globecom, ISIT, and ICASSP.

University Activities and Service

- Peer Review Committee Chair for Dr. David Hong, 2025
- ECE Department Research Day Chair, 2023.
- Promotion and Tenure Committee Chair for Dr. Hui Fang, 2021
- Promotion and Tenure Committee Chair for Dr. Abhyudai Singh, 2020
- Peer Review Committee Chair for Dr. Yuping Zheng, 2020
- Post Tenure Review Committee Chair for Dr. Fouad Kiamilev, 2019
- Faculty Searching Committee Member, the Department of Electrical and Computer Engineering, 2019
- Data Science Faculty Searching Committee Member, the Department of Electrical and Computer Engineering, 2017
- Graduate Student Committee Member, the Department of Electrical and Computer Engineering, 9/2011 – 5/2023
- Committee Chair, Secondary Appointment Committee, the Department of Electrical and Computer Engineering, 2015 – 5/2023
- Diversity Committee Member, College of Engineering, 2014 – 2019.

- Committee Memeber, Secondary Appointment Committee, the Department of Electrical and Computer Engineering, 2008-2009.
- Committee Chair, Faculty Review Committee, the Department of Electrical and Computer Engineering, 2007, 2015, 2016.
- Committee Member, Staff Recruit Committee, the Department of Electrical and Computer Engineering, 2007.
- Committee Member, New Faculty Searching Committee, the Department of Electrical and Computer Engineering, 2001-2002.
- Committee Member, New Faculty Searching Committee, the Department of Electrical and Computer Engineering, 1997-1998.
- Committee Member, New Faculty Searching Committee, the Department of Electrical and Computer Engineering, 1998-1999.
- Committee Member, New Faculty Searching Committee, the Department of Electrical and Computer Engineering, 1999-2000.
- Committee Member, Undergraduate Planning Committee, Department of Electrical and Computer Engineering, 1997, 2003.
- Committee Member, Ad-hoc Committee to Re-evaluate the Signals and Systems Curriculum for Undergraduate Students
- Committee Member, Ad-hoc Committee to Recruit Graduate Students

Professional Society Membership: Fellow of IEEE

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2. F. Liu, Z. Nashed, G. M. N'guerekata, D. Pokrajac, Z. Qiao, X. Shi, and X.-G. Xia, Ed., *Advances in Applied and Computational Mathematics*, Nova Science Publishers, New York, 2006.
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- [C07]. X.-G. Xia, C.-C. Jay Kuo and Z. Zhang, Signal extrapolation based on wavelet transform, Proceedings of 1993 IEEE International Symposium on Circuits and Systems, Chicago, May 1993.
- [C06]. X.-G. Xia, C.-C. Jay Kuo and Z. Zhang, Design of optimal FIR prefilter for wavelet coefficient computation, Proceedings of 1993 IEEE International Symposium on Circuits and Systems, Chicago, May 1993.
- [C05]. Z. Zhang, X.-G. Xia and C.M. Tu, Some new lower and upper bounds for $tEC/AUED$ codes, Proceedings of IEEE International Symposium on Information Theory, San Antonio, Texas, Jan. 1993.
- [C04]. X.-G. Xia and Z. Zhang, On sampling theorem, wavelets and wavelet transforms, Proceedings of IEEE International Symposium on Information Theory, San Antonio, Texas, Jan. 1993.
- [C03]. X.-G. Xia and Z. Zhang, Estimation of aliasing error in sampling theorem for signals not necessarily in wavelet subspaces, IEEE Proceedings of ICASSP, Minneapolis, Minnesota, April 1993.

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Invited Talks

- How to Do Good Research and Write Good Research Papers, Xidian University, Xian, China, Oct. 19, 2024.
- VOFDM/OTFS and 6G Modulation, Purple Mountain Lab., Nanjing, China, June 22, 2024.
- VOFDM/OTFS and 6G Modulation, Nanjing University, Nanjing, China, June 14, 2024.
- How to Do Good Research and Write Good Research Papers, Donghua University, Shanghai, China, June 8, 2024.
- Some Thoughts for 6G Modulations, The 5th Information Communication Technologies Conference, Keynote Speech, Nanjing, China, May 11, 2024.
- Some Thoughts for 6G Modulations, Forum of Journal of Information and Intelligence, Xidian University, Xian, China, May 10, 2024.
- How to Do Good Research and Write Good Research Papers, Southwest Jiaotong University, Chengdu, China, April 19, 2024.
- How to Do Good Research and Write Good Research Papers, Xidian University, Xian, China, March 14, 2024.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, the 7th International Conference on Image and Graphics Processing (ICIGP 2024), Keynote Speech, Beijing, China, Jan. 19-21, 2024.
- OFDM Radar and Communications: Comparison and SAR Imaging, Donghua University, Shanghai, China, Dec. 28, 2023.
- How to Do Good Research and Write Good Papers, University of Science and Technology of China, Hefei, China, Dec. 21, 2023.
- Digital Communications: the Past, Current, and Future, University of Science and Technology of China, Hefei, China, Dec. 20, 2023.
- Some Thoughts for 6G Modulations, Forum on Future Wireless Communications, Shenzhen, China, Dec. 11, 2023.

- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, International Conference on High Performance Big Data Intelligent Systems (HDIS) 2023, Keynote Speech, Univ. of Macau, Dec. 6-8, 2023.
- Some Thoughts for 6G Modulations, 2023 International Conf. on the Cooperation and Integration of Industry, Education, Research and Application, Optoelectronic Engineering and Future Display & Information and Communication Technology Session, Keynote Speech, Shenzhen, Nov. 25, 2023.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, Lecture Series of Information and Intelligence Journal, Xidian Univ., Nov. 10, 2023.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, the 15th Workshop on Communications and Signal Processing (WCSP), Keynote Speech, Nov. 2, 2023, Hangzhou, China.
- OFDM Radar and Communications: Comparison and SAR Imaging, University of Macau, Macau, Oct. 27, 2023.
- Digital Communications: the Past, Current, and Future, Hubei University of Technology, Wuhan, China, Oct. 21, 2023.
- How to Do Good Research and Write Good Papers, Hubei University of Technology, Wuhan, China, Oct. 21, 2023.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, Nanjing University of Science and Technology, Oct. 11, 2023.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, Workshop on Information Theory and Mathematical Logic in Celebrating Professor Guodong Hu's 100th Birthday, Nankai University, Sept. 23-24, 2023.
- Digital Communications and Mathematics, Purple Mountain Lab., Southeast Univ., Nanjing, China, Aug. 4, 2023.
- Digital Communications and Mathematics, the First International Conference on Basic Sciences, Beijing, China, July 16 -28, 2023.
- Some Thoughts for 6G Modulations, Forum of Postdoctors, Nanjing, China, June 28, 2023.
- Vector OFDM Systems, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, June 20, 2023.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, Xidian University, Xi'an, China, June 12, 2023.
- Vector OFDM Systems, Mobile Intelligent Communication Network Forum (MICoN Forum), Beijing, China, Mar. 6, 2023.
- Vector OFDM Systems, Virginia Tech., Feb. 10, 2023.

- Digital Communications: the Past, Current, and Future, Donghua University, Shanghai, China, Dec. 24, 2022.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, Xidian University, Xi'an, China, Dec. 4, 2022.
- Digital Communications: the Past, Current, and Future, ICT Huangpu Lecture, Guangzhou University, Guangzhou, China, Dec. 2, 2022.
- Linear Processing for Vector-Valued Signals with Vector-Valued Coefficients, 2022 International Conference on Frontiers of Communications, Information System and Data Science (CISDS), Guangzhou, China, Nov. 26, 2022.
- OFDM Radar and Communications: Comparison and SAR Imaging, the IEEE International Conference on Signal Processing, Communications and Computing, Xi'an, Oct. 25, 2022.
- OFDM Radar and Communications: Comparison and SAR Imaging, the 7th Zhejiang University International Workshop on Intelligent Signal Processing, Oct. 12, 2022.
- Vector OFDM Systems, 2022 Sixth International Conference on Imaging, Signal Processing and Communications (ICISPC 2022), Kumamoto, Japan, July 23, 2022.
- Vector OFDM Systems, Hosted by Journal of Communications and Information Networks (JCIN), Pengcheng Lab., China, Feb. 18, 2022.
- MIMO-OFDM Radar, Workshop on Radar Waveform Diversity, Xidian University, Jan. 11, 2022.
- Quantitative SNR of Joint Time-Frequency Analysis with Applications in SAR/ISAR Imaging, Organized by *Journal of Radars*, Xidian University, Jan. 6, 2022.
- Robust Remaindering for Real Numbers and Its Applications in Mod Sampling, 2021 International Symp. on Multi-modal Sensing and Information Processing, Xian, China, July 16-17, 2021.
- Robust Remaindering for Real Numbers and Its Applications in Mod Sampling, The 6th Zhejiang Graduate International Workshop on Intelligent Signal Processing, Zhejiang University, Hangzhou, China, Sept. 11, 2021.
- Robust Remaindering for Real Numbers and Its Applications in Mod Sampling, The 6th International Conference on Systems, Control, and Communications (ICSCC), Chongqing, China, Oct. 16, 2021.
- Robust Remaindering for Real Numbers and Its Applications in Mod Sampling, Xidian University, Xian, China, Oct. 29, 2021.
- Robust Remaindering for Real Numbers and Its Applications in Mod Sampling, Nankai University, Tianjin, China, Nov. 4, 2021.
- OFDM Radar and Communications: Comparison and SAR Imaging, Xidian University, Nov. 19, 2021.

- How to Do Good Research and Write Good Research Papers, Xidian University, Nov. 29, 2021.
- OFDM Radar and Communications: Comparison and SAR Imaging, Beijing University of Posts and Telecommunications, Dec. 3, 2021.
- OFDM Radar and Communications: Comparison and SAR Imaging, The 12th Asia Conference on Mechanical and Aerospace Engineering (ACMAE 2021), Nanjing, China, Dec. 30, 2021.
- Mathematics and Electrical Engineering, Jilin University, Dec. 30, 2020.
- Phased-Array Transmission for Secure mmWave Wireless Communication via Polygon Construction, UASR Security for Cyber Space Workshop, Xian Jiao Tong Univ., Nov. 25, 2020.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, Jilin University, Nov. 24, 2020.
- Topics on Modulations for Current and Future Wireless Communications, Jilin University, Nov. 23, 2020.
- Sunzi Theorem and Signal Processing, The 26th Annual Information Theory Symp., The Information Theory Society of Chinese Institute of Electronics, Nanning, China, Nov. 9-10, 2019.
- OFDM SAR Imaging, The 5th Forum of Journal of Radars, Hohhot, China, Aug. 14-15, 2019.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, University of Science and Technology of China (USTC), July 29, 2019.
- Sunzi Theorem and Signal Processing, Beijing Technology and Business University, July 16, 2019.
- Mathematics and Electrical Engineering, Xidian University, June 14, 2019.
- Signal variations in Schwarzschild spacetime, Asia Pacific Conf. on Communications, Nov. 13, 2018, Ningbo, China.
- Signal variations in Schwarzschild spacetime, The 1st Workshop in Communications and Networking, Nanjing Univ. of Post and Telecomm., Nov. 10, 2018, Nanjing, China.
- Past and Future, NEWTON Forum, Beihang Univ., Nov. 9, 2018, Beijing, China.
- Hierarchical Codebook Design for mmWave Communications, China Communications's International Frontier Research Workshop, Dali, Yunnan Province, China, August 2, 2018.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, Nanjing University of Post and Telecommunications (NJUPT), July 15, 2018.

- Mathematics and Electrical Engineering, University Distinguished Lectures, Beijing Institute of Technology, July 9, 2018.
- Mathematics and Electrical Engineering, The Second International Conference on Mathematical Characterization, Analysis and Applications of Complex Information (CMCAA), Beijing Institute of Technology, June 30-July 1, 2018.
- Topics on Modulations for 5G and Beyond, Nankai Workshop on Information Theory and Data Science, Nankai University, June 30, 2018.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, Nankai University, June 29, 2018.
- Sunzi Theorem and Signal Processing, Beijing Institute of Technology, Aug. 14, 2017.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, Beijing Jiaotong University, July 15, 2017.
- Topics on Modulations for 5G and Beyond, Beijing University of Aeronautics and Astronautics, June 9, 2017.
- Topics on Modulations for 5G and Beyond, Zhenzhou University, March 29, 2017.
- Electrical Engineering and Mathematics, Nanjing University of Post and Telecommunications, Dec. 19, 2016.
- Topics on Modulations for 5G and Beyond, Chongqing University of Post and Telecommunications, Nov. 27, 2016.
- Topics on Modulations for 5G and Beyond, Chongqing University, Nov. 27, 2016.
- Topics on Modulations for 5G and Beyond, Southern University of Science and Technology, Nov. 16, 2016.
- Next Generation SAR Imaging, Shenzhen Univ., Nov. 2, 2016.
- Omnidirectional Transmission in Massive MIMO Systems and Sequences, Nanjing Univ. of Aeronautics and Astronautics, Oct. 18, 2016.
- Topics on Modulations for 5G and Beyond, Univ. of Electronics Science and Technology of China, July 26, 2016.
- Topics on Modulations for 5G and Beyond, Southeast University, July 11, 2016.
- Sunzi Theorem and Signal Processing, Xidian University, June 20, 2016.
- Mathematics and Electrical Engineering, Nanjing University of Aeronautics and Astronautics, March 30, 2016.
- Mathematics and Electrical Engineering, Southeast University, March 25, 2016.
- Topics on Modulations for 5G and Beyond, Tongji University, March 23, 2016.

- Next Generation SAR Imaging, Institute of Acoustics, Chinese Academy of Sciences, Beijing, Jan. 29, 2016.
- Next Generation SAR Imaging, Keynote Speech, IET Radar Conference, Hang Zhou, China, Oct. 15-16, 2015.
- Topics on Modulations for 5G and Beyond, Nanjing University of Post and Telecommunications (BUPT), Oct. 14, 2015.
- What's Next After OFDM, Beijing University of Post and Telecommunications (BUPT), Sept. 11, 2015.
- OFDM SAR Imaging, AVIC Leihua Electronic Technology Research Institute, Beijing, August 25, 2015.
- Robust Remaindering and Signal Processing, Tianjin University, July 31, 2015.
- Mathematics and Electrical Engineering, Tianjin University, July 31, 2015.
- Robust Remaindering and Signal Processing, Nankai University, July 30, 2015.
- What's Next After OFDM?, FuTure Forum, Harbin Institute of Technology, July 29, 2015.
- OFDM SAR Imaging, Harbin Institute of Technology, July 28, 2015.
- Modulation Designs for Multiple Antennas with Low Complexity Receivers, Harbin Institute of Technology, July 28, 2015.
- Mathematics and Electrical Engineering, Xidian University, July 8, 2015.
- OFDM SAR Imaging, Nanjing University of Science and Technology, June 29, 2015.
- Mathematics and Electrical Engineering, Nanjing Normal University, June 5, 2015.
- OFDM SAR Imaging, Nanjing University of Aeronautics and Astronautics, June 4, 2015.
- What's Next After OFDM? University of Electronic Science and Technology of China (UESTC), Chengdu, China, Jan. 28, 2015.
- Topics in 5G Networks, Xidian University, Xi'an, China, Jan. 19, 2015.
- What's Next After OFDM? Southwest Jiao Tong University, Chengdu, China, Jan. 7, 2015.
- MIMO-OFDM Radar and Paraunitary Matrices, P. P. Vaidyanathan's 60th Birthday Workshop, Caltech, Pasadena, CA, USA, Nov. 1, 2014.
- What's Next After OFDM? Southeast University, Nanjing, China, Oct. 29, 2014.
- The Past, Current, and Future of Digital Communications, Nanjing Normal University, Nanjing, China, Oct. 25, 2014.

- Modulation Design for MIMO Systems with Simplified Receivers, The Wireless Communication Workshop 2014, Hefei, China, August 11, 2014.
- OFDM SAR Imaging Using Sufficient Cyclic Prefix, Beijing Institute of Technology, July 24, 2014.
- What's Next After OFDM? Harbin Institute of Technology, Harbin, China, July 23, 2014.
- What's Next After OFDM? Institute of Acoustics, Chinese Academy of Sciences, July 22, 2014.
- OFDM SAR Imaging Using Sufficient Cyclic Prefix, the Mathematical Issues in Information Sciences, Xidian, China, July 10, 2014.
- What's Next After OFDM? Donghua University, Shanghai, China, June 24, 2014.
- What's Next After OFDM? University of Science and Technology of China, He Fei, China, Jan. 3, 2014.
- What's Next After OFDM? Hefei University of Technology, He Fei, China, Jan. 3, 2014.
- Robust Remaindering and Signal Processing, Nanjing University, Nanjing, China, Dec. 31, 2013.
- What's Next After OFDM? Xidian University, Xi'an, China, Dec. 28, 2013.
- Robust Remaindering and Signal Processing, Nanjing University of Aeronautics and Astronautics, Nanjing, China, Nov. 1, 2013.
- What's Next After OFDM? Nanjing University of Post and Telecommunications, Nanjing, China, Oct. 30, 2013.
- Self-coding for Full Duplex Asynchronous Cooperative Systems, Southeast University, Nanjing, China, Oct. 28, 2013.
- What's Next After OFDM? WCSP 2013, Hangzhou, China, Oct. 24-26, 2013.
- A channel independent precoding for MIMO-OFDM systems with insufficient CP length, ICC3 2013, Xi'an, China, Aug. 12-14, 2013.
- Robust remaindering and signal processing, ChinaSIP 2013, Beijing, China, July 6-10, 2013.
- Single Antenna Vector OFDM Systems, Nanjing University of Aeronautics and Astronautics, Nanjing, China, Jan. 23, 2013.
- A Channel Independent Precoding for MIMO-OFDM Systems with Insufficient Cyclic Prefix Using Interference Nulling, Southeast University, Nanjing, China, Jan. 17, 2013.

- Single Antenna Vector OFDM Systems, Xi'an Jiao Tong University, Xi'an, China, July 25, 2012.
- Quantitative Signal-to-Noise Ratio Studies for Joint Time-Frequency Analysis with Applications in ISAR Imaging, International Workshop on Mathematical Issues in Information Sciences (MIIS 2012), Xidian University, Xi'an, China, July 13, 2012.
- Modulation Designs for Multiple Antennas with Low Complexity Receivers, IEEK Summer Conference, Jeju Island, South Korea, June 27-29, 2012.
- Robust Reconstruction from Remainders and Applications, Korea IT Society Workshop, Chonbuk National University, Jeonju, South Korea, June 22, 2012.
- Single Antenna Vector OFDM Systems, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, Jan. 10, 2012.
- A Simple Distributed Alamouti Coding for Asynchronous Cooperative Systems for Frequency Selective Fading Channels, Southeast University, Nanjing, China, Nov. 11, 2011.
- Space-Time Coding for Cooperative Communications, Nanjing Institute of Communications, Nanjing, China, Nov. 7, 2011.
- Space-Time Coding for Cooperative Communications, Concordia University, Montreal, Canada, Sept. 30, 2011.
- Single Antenna Vector OFDM Systems, ETRI, Daejeon, South Korea, August 19, 2011.
- Single Antenna Vector OFDM Systems, Chungbuk National University, Cheongju, South Korea, July 27, 2011.
- Space-Time Coding for Cooperative Communications, Nanjing University of Post and Telecommunications, Nanjing, China, July 22, 2011.
- Single Antenna Vector OFDM Systems, Chonbuk National University, Jeonju, South Korea, June 3, 2011.
- Quantitative Signal-to-Noise Ratio Analysis for Joint Time-Frequency Analysis with Applications in ISAR Imaging, Nanjing University of Science and Technology, Nanjing, China, May 12, 2011.
- Sunzi Theorem and Signal Processing, Ryerson University, Toronto, Canada, March 3, 2011.
- On Space-Time Codes with Conditional PIC Group Decoding, Southeast University, Nanjing, China, Sept. 25, 2010.
- Sunzi Theorem and Signal Processing, The Second Symp. on IT Advances in 21st Century – Signal Processing and Its Applications, Northwestern Polytechnical University, Xi'an, China, Sept. 22, 2010.

- Space-Time Codes for Cooperative Communications, Xidian University, August 27, 2010.
- Sunzi Theorem and Signal Processing, Xidian University, August 27, 2010.
- Modulation Designs for Multiple Antennas with Low Complexity Receivers, Xidian University, August 24, 2010.
- Modulation Designs for Multiple Antennas with Low Complexity Receivers, Chongqing University, August 21, 2010.
- Achieving Full Diversity and Fast ML Decoding via Simple Analog Network Coding for Asynchronous Two-Way Relay Networks, Peking University, Beijing, China, August 2, 2010.
- Modulation Designs for Multiple Antennas with Low Complexity Receivers, Keynote Speech, 2010 IEEE International Conference on Wireless Communications, Networking and Information Security (WCNIS 2010), June 26, Beijing, China.
- Space-Time Codes/Modulations with Low Complexity Receivers, Zhejiang University, Hang Zhou, China, June 25, 2010.
- Space-Time Codes with Low Complexity Receivers, Hangzhou Dianzi University, Hang Zhou, China, June 24, 2010.
- Space-time coding for cooperative communications, ETRI, South Korea, Oct. 13, 2009.
- Sunzi Theorem and Signal Processing, The Chonbuk Nantional University, South Korea, Sept. 16, 2009.
- Space-time coding for cooperative communications, The Chonbuk Nantional University, South Korea, Sept. 4, 2009.
- Achieving Full Diversity and Fast ML Decoding via Simple Analog Network Coding for Asynchronous Two-Way Relay Networks, The Chinese University of Hong Kong, Hong Kong, August 13, 2009.
- Space-time coding for cooperative communications, Xi'an Jiao Tong University, Xi'an, China, August 8, 2009.
- Achieving Full Diversity and Fast ML Decoding via Simple Analog Network Coding for Asynchronous Two-Way Relay Networks, Southeast University, Nanjing, China, July 24, 2009.
- Sunzi Theorem, Signal Processing, and Phase Unwrapping, Beijing University, Beijing, China, July 13, 2009.
- Space-Time Codes, Orthogonal Designs, and Compositions of Quadratic Forms, Nankai University, China, July 6, 2009.
- Sunzi Theorem, Signal Processing, and Phase Unwrapping, Beijing Institute of Tech., Beijing, China, April 1, 2009.

- Space-time coding for cooperative communications, BeiHang University, Beijing, China, Mar. 31, 2009.
- Space-time coding for cooperative communications, Tsinghua University, Beijing, China, Mar. 20, 2009.
- Space-Time Codes Based on Linear Receivers and PIC Group Decoding, University of Sydney, Australia, Jan. 28, 2009.
- Sunzi Theorem and Signal Processing, University of New South Wales, Sydney, Australia, Jan. 22, 2009.
- Space-Time Codes with Simplified Receivers, Southeast University, Nanjing, China, Dec. 19, 2008.
- Space-time coding for cooperative communications, University of Electronics Science and Technology of China, Chengdu, Dec. 17, 2008.
- Sunzi Theorem and Signal Processing, The 2nd Internal. Conf. on the Advances of Hilbert-Huang Transform and Its Applications, Guangzhou, China, Dec. 15, 2008.
- Space-time coding for cooperative communications, State University of New York, Buffalo, Oct. 24, 2008.
- Sunzi Theorem and Signal Processing, Distinguished Lecture Series, Shun Hing Institute of Advanced Engineering, The Chinese University of Hong Kong, July 23, 2008.
- Space-time coding for cooperative communications, Distinguished Lecture Series, Shun Hing Institute of Advanced Engineering, The Chinese University of Hong Kong, July 21, 2008.
- Space-time coding for cooperative communications, ACoRN Workshop on Co-operative Wireless Communications, Keynote presentation, Melbourne, Australia, July 16, 2008.
- Space-time coding/modulation for MIMO systems: what is left? Huazhong University of Science and Technology, June 1, 2008.
- Sunzi Theorem and Signal Processing, Xi'an Jiao Tong University, May 29, 2008.
- Space-time coding/modulation for MIMO systems: what is left? Xi'an Jiao Tong University, May 29, 2008.
- Sunzi Theorem and Signal Processing, The Institute of Electronics, The China Academy of Science, Beijing, May 23, 2008.
- Distributed Linear Space-Time Convolutional Codes Achieving Asynchronous Full Cooperative Diversity With MMSE-DFE Receivers, WCNC 2008, Special Paper Presentation, Las Vegas, April 2, 2008.
- Space-time coding/modulation for MIMO systems: what is left? Shanghai Jiao Tong University, Jan. 25, 2008.

- Space-time coding/modulation for MIMO systems: what is left? Beihang University, Jan. 16, 2008.
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