

Xiangyun (Sean) Zhou

School of Engineering
College of Engineering and Computer Science
The Australian National University (ANU)
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Qualifications

- 2010 **Doctor of Philosophy in Engineering, ANU**
Thesis focused on wireless transmission resource allocation with channel uncertainty.
- 2007 **Bachelor of Engineering with 1st Class Honours and University Medal, ANU**
Major studies in Electronics and Telecommunications

Work Experience

- 01/2019 – present **Associate Professor, ANU**
- 07/2015 – 12/2018 **Senior Lecturer, ANU**
- 06/2012 – 07/2015 **Future Engineering Research Leadership Fellow (Lecturer), ANU**
- 06/2011 – 06/2012 **Research Fellow, ANU**
- 06/2010 – 06/2011 **Postdoctoral Fellow, UNIK, University of Oslo, Norway**

Research Interests

A broad interest in the communication theory, signal processing and networking aspects of wireless communications, focusing on the wireless technologies underpinning beyond 5G networks and the Internet of Things.

Highlights of Research Career

Awards:

- **AI 2000 Most Influential Scholar in Internet of Things Honorable Mention in 2020** “in recognition of outstanding and vibrant contributions in the field of Internet of Things between 2009 and 2019”: This annual recognition is given to 100 world’s top-cited research scholars in field of Internet of Things for their research impact over the past 10 years.
- **IEEE Communications Society Asia-Pacific Best Young Researcher Award in 2017** “for his contributions and leadership in physical-layer security research”: It is one of the most prestigious awards for researchers in the field of communications under the age of 35 in the Asia-Pacific region. Only one researcher receives this award each year.
- **IEEE Communications Society Asia-Pacific Outstanding Paper Award in 2016**: It is a prestigious award given by IEEE Communications Society to honour papers of the highest impact from researchers in the Asia-Pacific region. Typically 2-3 papers receive this award each year.
- **Finalist of Best Paper Award at IEEE Globecom in 2014**: Globecom is one of the two most prestigious conferences in the field of communications.
- **Finalist of Best Student Paper Award at IEEE ICASSP in 2014**: ICASSP is the most prestigious conference in the field of signal processing.
- **Finalist of Heinrich Hertz Award for Best Communications Letters in 2013**: This award is given to

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the best article published in IEEE Communications Letters during the previous 3 years. Typically no more than five papers were selected as the finalists.

- **Best Paper Award at IEEE ICC in 2011:** ICC is one of the two most prestigious conferences in the field of communications.

Publications:

- **162 Publications** (as of August 2020) including 2 edited books, 2 book chapters, 1 editorial, 82 journal papers and 75 conference papers.
- **Google Scholar citation = 7000 and h-index = 41.**

Service and Leadership in Research Community:

- **Area Editor of IEEE Communications Letters since 2020:** This is a prestigious journal in wireless communications for short-letter publications.
- **Editor of IEEE Transactions on Wireless Communications in 2014 – 2019:** This is a prestigious journal in wireless communications for full-length paper publications.
- **Editor of IEEE Wireless Communications Letters since 2018:** This is a prestigious journal in wireless communications for short-letter publications.
- **Founding Co-Chair of IEEE ICC Workshop on Wireless Physical Layer Security:** This reputable international workshop has been held in 2014, 2015 and 2016.
- **Founding Co-Chair of IEEE Globecom Workshop on Wireless Energy Harvesting Communication Networks:** This reputable international workshop has been held in 2016, 2017 and 2018.
- **Keynote, Tutorial and Invited Talks** on physical layer security at workshops and conferences.
- **Symposium/Track Chair of IEEE ICC'16, VTC-Spring'17, ICC'20.**

Research Grants

- 2018 – 2020 N. Yang and **X. Zhou**, “Ultra-Reliable and Low-Latency Mission Critical Communications”, **ARC Discovery Project**, DP180104062, \$453,270
- 2017 – 2019 S. Durrani, **X. Zhou**, D. Ngo, and H. Yanikomeroglu, “Enabling Ultra-Reliable and Sustainable Machine-to-Machine Communications”, **ARC Discovery Project**, DP170100939, \$352,000
- 2015 – 2017 **X. Zhou**, T. Abhayapala, N. Yang, and A. L. Swindlehurst, “Safeguarding Future Wireless Communications with Physical Layer Security”, **ARC Discovery Project**, DP150103905, \$340,300
- 2014 – 2016 S. Durrani, **X. Zhou**, H. Mehrpouyan, and S. D. Blostein, “Realizable Synchronization Techniques: Unlocking the Potential of Future Wireless Networks”, **ARC Discovery Project**, DP140101133, \$365,000
- 2013 C. Yu, **X. Zhou**, and A. N. Bishop, “UWB-Based Wireless Sensor Networks for Localisation”, ANU Major Equipment Grant, 13MEC05, \$40,000
- 2011 – 2013 R. A. Kennedy, T. Lamahewa, **X. Zhou**, and G. Giannakis, “Optimum Cross-Layer Design in Wireless Communication Systems with Channel Uncertainty”, **ARC Discovery Project**, DP110102548, \$255,000

Educational Activities

- 2017 - present Discipline Chair of the Electronics and Communications Engineering
- 2018 - present Course Convenor and Lecturer of ENGN2228 Signals and Systems

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2016 - present Course Convenor and Lecturer of ENGN3226/6626 Digital Communications
2012 - 2016 Course Convenor and Lecturer of ENGN4536/6536 Wireless Communications

HDR Student and Postdoc Supervision

Received Nominations for the Dean's Award for Excellence in Supervision in 2014, 2015 and 2017

Current Students

Ph.D. **Xiaolun Jia**, ANU, 01/2018 – present, Topic: Backscatter communications
Zhifeng Tang, ANU, 08/2019 – present, Topic: Low-latency communications
(principal supervisor: Prof. Nan Yang)
Sahar Idrees, ANU, 03/2018 – present, Topic: Backscatter communications
(principal supervisor: Prof. Salman Durrani)

Former Postdoc

Dr. Shihao Yan, ANU, 08/2015 – 01/2018, under ARC Discovery Project Grant - DP150103905
Dr. Ali Nasir, ANU, 09/2012 – 08/2015, under ARC Discovery Project Grants - DP110102548 and DP140101133

Former Students

Ph.D. **Sheeraz Alvi**, ANU, 07/2016 – 01/2020, Topic: Machine-to-machine communications.
Khurram Shahzad, ANU, 05/2016 – 01/2020, Topic: Wireless communication security. Now work at Charles Sturt University as a research associate.
Wanchun Liu, ANU, 07/2014 – 07/2017, Topic: Energy harvesting wireless communications, Now work at University of Sydney as a postdoctoral researcher.
Yirui Cong, ANU, 12/2013 – 10/2017, Topic: Communication and control in wireless mobile networks, Now work at National University of Defense Technology in China.
Biao He, ANU, 08/2012 – 02/2016, Topic: Physical layer security in wireless communications, Previously worked at Hong Kong University of Science and Technology and University of California Irvine as a postdoctoral researcher. Now work at MediaTek USA.
Zohair Abu Shaban, ANU, 06/2014 – 11/2017, Topic: Localization in cellular networks (principal supervisor: Prof. Thushara Abhayapala), Now work at University of New South Wales as a research associate.
Yifei Huang, ANU, 03/2014 – present, Topic: Heterogeneous cellular networks (principal supervisor: Dr. Salman Durrani), Now work at Vodafone Australia.
Jing Guo, ANU, 09/2012 – 04/2016, Topic: Stochastic geometry for wireless networks (principal supervisor: Dr. Salman Durrani), Previously worked at ANU as a postdoctoral researcher. Now worked at Beijing Institute of Technology in China.

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He Wang, ANU, 11/2009 – 07/2013, Topic: Heterogeneous cellular networks. (principal supervisor: Dr. Mark Reed), Now work at Samsung Research Centre in Beijing, China.

Ph.D. (visiting) **Yanyan Wang**, from University of Electronic Science and Technology, China, 09/2018 – 09/2019, Topic: Splitting receiver. Now work at Southwest Jiao Tong University in China.

Xian Li, from Southeast University China, 11/2016 – 11/2017, Topic: Wireless powered communications. Now work at Shenzhen University in China.

Jianping Yao, from South China University of Technology, 09/2015 – 09/2016, Topic: Physical layer security. Now work at Guangdong University of Technology in China.

Xi Zhang, from HKUST, 07/2013 – 10/2013, Topic: Physical layer security, Now work at Huawei in Chengdu, China.

Professional Activities

Journal Editor

- Area Editor (2020 -): IEEE Communications Letters
- Editor (2018 -): IEEE Wireless Communications Letters
- Editor (2014 - 2019): IEEE Transactions on Wireless Communications
- Editor (2013 - 2018): IEEE Communications Letters
- Associate Editor (2012 - 2015): Security and Communication Networks Journal (Wiley)
- Editor (2012 – 2014): Ad Hoc & Sensor Wireless Networks Journal
- Guest Editor: 2015 Special Issue on Wireless Physical Layer Security, IEEE Communications Magazine
- Guest Editor: 2014 Special Issue on Energy Harvesting Wireless Communications, EURASIP Journal on Wireless Communications and Networking

Conference & Workshop Organization

- Symposium Co-Chair: IEEE ICC 2020 Wireless Communications Symposium
- Track Co-Chair: IEEE VTC 2017-Spring Wireless Access Technology and Heterogeneous Networks Track
- Symposium Co-Chair: IEEE ICC 2016 Privacy and Security in Communications Symposium
- Workshop Co-Organizer: IEEE Globecom 2017 Workshop on Wireless Energy Harvesting Communication Networks
- Workshop Co-Organizer: IEEE Globecom 2016 Workshop on Wireless Energy Harvesting Communication Networks
- Workshop Co-Organizer: IEEE Globecom 2016 Workshop on Trusted Communication with Physical Layer Security
- Workshop Co-Organizer: IEEE ICC 2016 Workshop on Wireless Physical Layer Security
- Workshop Co-Organizer: IEEE Globecom 2015 Workshop on Trusted Communication with Physical Layer Security
- Workshop Co-Organizer: IEEE ICC 2015 Workshop on Wireless Physical Layer Security
- Workshop Co-Organizer: IEEE ICC 2014 Workshop on Wireless Physical Layer Security

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- Session Co-Organizer: Special Session on “5G Technologies for D2D, M2M and V2V communications”, 2016 IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)
- Session Co-Organizer: Special Session on “Physical Layer Security”, 2015 International Conference on Wireless Communications and Signal Processing (WCSP)
- Session Organizer: Special Session on “Stochastic Geometry and Random Networks”, 2013 Asilomar Conference on Signals, Systems, and Computers

Tutorials and Keynotes

- Tutorial on Physical Layer Security at IEEE ICC 2019
- Tutorial on Physical Layer Security at IEEE VTC-Spring 2017
- Keynote Speech at IEEE Globecom Workshop on Physical-Layer and Cross-Layer Security Solutions for 5G Networks 2017

Other Services

- Chair (2015 – 2017): IEEE Technical Committee on Green Communications & Computing, Special Interest Group on Energy Harvesting Communication Networks
- Local Chapter Chair (2013 - 2014): IEEE Communications Society & Signal Processing Society, ACT Section
- Regular Reviewer for IEEE journals in the field (Exemplary Reviewer for IEEE Communications Letters 2012 and 2013, Exemplary Reviewer for IEEE Wireless Communications Letters 2015 and 2017, Exemplary Reviewer for IEEE Transactions on Wireless Communications 2017)
- Regular TPC members and Reviewer for major IEEE conferences.
- Regular Assessor of ARC grant proposals
- Regular HDR Thesis Examiners

Publications

Books:

1. T. Q. Duong, **X. Zhou**, and H. V. Poor (Eds.), “Trusted Communications with Physical Layer Security for 5G and Beyond”, IET, 2017
2. **X. Zhou**, L. Song, and Y. Zhang (Eds.), “Physical Layer Security in Wireless Communications”, CRC Press, 2013

Book Chapters:

1. W. Liu, S. Durrani, and **X. Zhou**, “Wireless Powered Sensor Networks”, In: D. Jayakody, J. Thompson, S. Chatzinotas, S. Durrani (Eds.) Wireless Information and Power Transfer: A New Paradigm for Green Communications, Springer International Publishing AG, 2017.
2. M. Maso, C. Zhong, **X. Zhou** and H. A. Suraweera, “Wireless-Powered Cooperative Relay Networks”, In: Wiley Encyclopedia of Electrical and Electronics Engineering, Wiley, 2017.

Editorial:

1. **X. Zhou**, X. Wang, and M. Bloch, “Best Readings in Physical-Layer Security”, IEEE ComSoc Best Readings, Apr. 2018.

Journal Papers:

1. N. Senadhira, S. Durrani, **X. Zhou**, N. Yang, and M. Ding, “Uplink NOMA for Cellular-Connected UAV: Impact of UAV Trajectories and Altitude”, IEEE Trans. Commun., Aug. 2020.

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2. X. Jia and **X. Zhou**, "Performance Characterization of Relaying Using Backscatter Devices", IEEE Open Journal of the Communications Society, Jun. 2020.
3. S. A. Alvi, **X. Zhou**, S. Durrani, and D. T. Ngo, "Sequencing and Scheduling for Multi-User Machine-Type Communication", IEEE Trans. Commun., Apr. 2020.
4. Y. Wang, W. Liu, **X. Zhou**, and G. Liu, "On the Performance of Splitting Receiver with Joint Coherent and Non-Coherent Processing", IEEE Trans. Signal Process., Jan. 2020.
5. K. Shahzad, **X. Zhou**, and S. Yan, "Covert Wireless Communication in Presence of a Multi-Antenna Adversary and Delay Constraints", IEEE Trans. Veh. Tech., Dec. 2019.
6. J. Hu, S. Yan, **X. Zhou**, F. Shu, and J. Li, "Covert Wireless Communications with Channel Inversion Power Control in Rayleigh Fading", IEEE Trans. Veh. Tech. Dec. 2019.
7. Y. Cong, **X. Zhou**, B. Zhou, and V. K. N. Lau, "Cooperative Localization in Mobile Wireless Networks with Asynchronous Measurements and Communications", IEEE Access, Dec. 2019.
8. S. Yan, **X. Zhou**, J. Hu, and S. V. Hanly, "Low Probability of Detection Communication: Opportunities and Challenges", IEEE Wireless Commun., Oct. 2019.
9. J. Guo, S. Durrani, and **X. Zhou**, "Monostatic Backscatter System with Multi-Tag to Reader Communication", IEEE Trans. Veh. Tech., Oct. 2019.
10. S. Yan, Y. Cong, S. V. Hanly, and **X. Zhou**, "Gaussian Signalling for Covert Communications", IEEE Trans. Wireless Commun., Jul. 2019.
11. W. Liu, K. Huang, **X. Zhou**, and S. Durrani, "Next Generation Backscatter Communications: Systems, Techniques and Applications", EURASIP Journal on Wireless Communications and Networking, Mar. 2019.
12. X. Li, **X. Zhou**, C. Sun, and D. W. K. Ng, "Online Policies for Throughput Maximization of Energy-Constrained Wireless-Powered Communication Systems", IEEE Trans. Wireless Commun., Mar. 2019.
13. J. Guo, **X. Zhou**, and S. Durrani, "Wireless Power Transfer via mmWave Power Beacons with Directional Beamforming", IEEE Wireless Commun. Lett., Feb. 2019.
14. S. Yan, B. He, **X. Zhou**, Y. Cong, and A. L. Swindlehurst, "Delay-Intolerant Covert Communications with either Fixed or Random Transmit Power", IEEE Trans. Info. Foren. Sec., Jan. 2019.
15. K. Shahzad, **X. Zhou**, S. Yan, J. Hu, F. Shu, and J. Li, "Achieving Covert Wireless Communications Using a Full-Duplex Receiver", IEEE Trans. Wireless Commun. Dec. 2018.
16. S. A. Alvi, **X. Zhou**, and S. Durrani, "Optimal Compression and Transmission Rate Control for Node-Lifetime Maximization", IEEE Trans. Wireless Commun., Nov. 2018.
17. S. Yan, **X. Zhou**, N. Yang, T. D. Abhayapala, and A. L. Swindlehurst, "Secret Channel Training to Enhance Physical Layer Security With a Full-Duplex Receiver", IEEE Trans. Info. Foren. Sec., Nov. 2018.
18. J. Guo, **X. Zhou**, S. Durrani, and H. Yanikomeroglu, "Design of Non-orthogonal Multiple Access Enhanced Backscatter Communication", IEEE Trans. Wireless Commun., Oct. 2018.
19. B. He, S. Yan, **X. Zhou**, and H. Jafarkhani, "Covert Wireless Communication with a Poisson Field of Interferers", IEEE Trans. Wireless Commun., Sept. 2018.
20. S. A. Alvi, S. Durrani, and **X. Zhou**, "Enhancing CRDSA with Transmit Power Diversity for Machine-Type Communications", IEEE Trans. Veh. Tech., Aug. 2018.
21. Z. Abu-Shaban, **X. Zhou**, T. D. Abhayapala, G. Seco-Granados, and H. Wymeersch, "Error Bounds for Uplink and Downlink 3D Localization in 5G mmWave Systems", IEEE Trans. Wireless Commun., Aug. 2018.

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22. J. Hu, S. Yan, **X. Zhou**, F. Shu, J. Li, and J. Wang, "Covert Communication Achieved by a Greedy Relay in Wireless Networks", *IEEE Trans. Wireless Commun.*, Jul. 2018.
23. J. Yao, **X. Zhou**, Y. Liu, and S. Feng, "Secure Transmission in Linear Multihop Relaying Networks", *IEEE Trans. Wireless Commun.*, vol. 17, no. 2, pp. 822-834, Feb. 2018.
24. J. Guo, S. Durrani, **X. Zhou**, and H. Yanikomeroglu, "Massive Machine Type Communication with Data Aggregation and Resource Scheduling", *IEEE Trans. Commun.*, vol. 65, no. 9, pp. 4012-4026, Sep. 2017.
25. W. Liu, **X. Zhou**, S. Durrani, and P. Popovski, "A Novel Receiver Design with Joint Coherent and Non-Coherent Processing", *IEEE Trans. Commun.*, vol. 65, no. 8, pp. 3479-3493, Aug. 2017.
26. W. Liu, K. Huang, **X. Zhou**, and S. Durrani, "Full-Duplex Backscatter Interference Networks Based on Time-Hopping Spread Spectrum", *IEEE Trans. Wireless Commun.*, vol. 16, no. 7, pp. 4361-4377, Jul. 2017.
27. L. Mucchi, L. Ronga, **X. Zhou**, K. Huang, Y. Cheng, and R. Wang, "A New Metric for Measuring the Security of an Environment: The Secrecy Pressure", *IEEE Trans. Wireless Commun.*, vol. 16, no. 5, pp. 3416-3430, May 2017.
28. B. He, S. Yan, **X. Zhou**, and V. K. N. Lau, "On Covert Communication with Noise Uncertainty", *IEEE Commun. Lett.*, vol. 21, no. 4, pp. 941-944, Apr. 2017.
29. Y. Cong and **X. Zhou**, "Event-Trigger Based Robust-Optimal Control for Energy Harvesting Transmitter", *IEEE Trans. Wireless Commun.*, vol. 16, no. 2, pp. 744-756, Feb. 2017.
30. Y. Huang, S. Durrani, P. Dmochowski, and **X. Zhou**, "A Proposed Network Balance Index for Heterogeneous Networks", *IEEE Wireless Commun. Lett.*, vol. 6, no. 1, pp. 98-101, Feb. 2017.
31. Y. Cong, **X. Zhou**, and R. A. Kennedy, "Finite-Horizon Throughput Region for Wireless Multi-User Interference Channels", *IEEE Trans. Wireless Commun.*, vol. 16, no. 1, pp. 634-646, Jan. 2017.
32. J. Guo, S. Durrani, **X. Zhou**, and H. Yanikomeroglu, "Device-to-Device Communication Underlying a Finite Cellular Network Region", *IEEE Trans. Wireless Commun.*, vol. 16, No. 1, pp. 332-347, Jan. 2017.
33. J. Hu, Y. Cai, N. Yang, **X. Zhou**, and W. Yang, "Artificial-Noise-Aided Secure Transmission Scheme with Limited Training and Feedback Overhead", *IEEE Trans. Wireless Commun.*, vol. 16, No. 1, pp. 193-205, Jan. 2017.
34. S. Yan, **X. Zhou**, N. Yang, B. He, and T. D. Abhayapala, "Artificial-Noise-Aided Secure Transmission in Wiretap Channels with Transmitter-Side Correlation", *IEEE Trans. Wireless Commun.*, vol. 15, no. 12, pp. 8286-8297, Dec. 2016.
35. J. Hu, N. Yang, **X. Zhou**, W. Yang, and Y. Cai, "A Versatile Secure Transmission Strategy in the Presence of Outdated CSI", *IEEE Trans. Veh. Tech.*, vol. 65, no. 12, pp. 10084-10090, Dec. 2016.
36. B. He, N. Yang, S. Yan, and **X. Zhou**, "Regularized Channel Inversion for Simultaneous Confidential Broadcasting and Power Transfer: A Large System Analysis", *IEEE J. Sel. Topics Signal Process.*, vol. 10, no. 8, pp. 1404-1416, Dec. 2016.
37. Z. Abu-Shaban, **X. Zhou**, and T. D. Abhayapala, "A Novel TOA-based Mobile Localization Technique under Mixed LOS/NLOS Conditions for Cellular Networks", *IEEE Trans. Veh. Tech.*, vol. 65, no. 11, pp. 8841-8853, Nov. 2016.
38. B. He, **X. Zhou**, and A. L. Swindlehurst, "On Secrecy Metrics for Physical Layer Security over Quasi-Static Fading Channels", *IEEE Trans. Wireless Commun.*, vol. 15, no. 10, pp. 6913-6924, Oct. 2016.
39. Y. Huang, A. A. Nasir, S. Durrani, and **X. Zhou**, "Mode Selection, Resource Allocation and Power Control for D2D-Enabled Two-Tier Cellular Network", *IEEE Trans. Commun.*, vol. 64, no. 8, pp. 3534-

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3547, Aug. 2016.

40. A. A. Nasir, D. T. Ngo, **X. Zhou**, R. A. Kennedy, and S. Durrani, "Joint Resource Optimization for Multicell Networks with Wireless Energy Harvesting Relays", *IEEE Trans. Veh. Tech.*, vol. 64, no. 8, pp. 6168-6183, Aug. 2016.
41. J. Hu, W. Yang, N. Yang, **X. Zhou**, and Y. Cai, "On-Off-Based Secure Transmission Design with Outdated Channel State Information", *IEEE Trans. Veh. Tech.*, vol. 65, no. 8, pp. 6075-6088, Aug. 2016.
42. W. Liu, **X. Zhou**, S. Durrani, H. Mehrpouyan, and S. D. Blostein, "Energy Harvesting Wireless Sensor Networks: Delay Analysis Considering Energy Costs of Sensing and Transmission", *IEEE Trans. Wireless Commun.*, vol. 15, no. 7, pp. 4635-4650, Jul. 2016.
43. J. Yao, S. Feng, **X. Zhou**, and Y. Liu, "Secure Routing in Multihop Wireless Ad-Hoc Networks with Decoding-and-Forward Relaying", *IEEE Trans. Commun.*, vol. 64, no. 2, pp. 753-764, Feb. 2016.
44. X. Xu, B. He, W. Yang, **X. Zhou**, and Y. Cai, "Secure Transmission Design for Cognitive Radio Networks with Poisson Distributed Eavesdroppers," *IEEE Trans. Info. Foren. Sec.*, vol. 11, no. 2, pp. 373-387, Feb. 2016.
45. W. Liu, **X. Zhou**, S. Durrani, and P. Popovski, "Secure Communication with a Wireless-Powered Friendly Jammer", *IEEE Trans. Wireless Commun.*, vol. 15, no. 1, pp. 401-415, Jan. 2016.
46. B. He, **X. Zhou**, and T. D. Abhayapala, "Achieving Secrecy without Knowing the Number of Eavesdropper Antennas", *IEEE Trans. Wireless Commun.*, vol. 14, no. 12, pp. 7030-7043, Dec. 2015.
47. B. He, N. Yang, **X. Zhou**, and J. Yuan, "Base Station Cooperation for Confidential Broadcasting in Multi-Cell Networks", *IEEE Trans. Wireless Commun.*, vol. 14, no. 10, pp. 5287-5299, Oct. 2015.
48. **X. Zhou**, "Training-Based SWIPT: Optimal Power Splitting at the Receiver", *IEEE Trans. Veh. Tech.*, vol. 64, no. 9, pp. 4377-4382, Sep. 2015.
49. Y. Cong, **X. Zhou**, and R. A. Kennedy, "Interference Prediction in Mobile Ad Hoc Networks with a General Mobility Model", *IEEE Trans. Wireless Commun.*, vol. 14, no. 8, pp. 4277-4290, Aug. 2015.
50. J. Guo, S. Durrani, **X. Zhou**, and H. Yanikomeroglu, "Outage Probability of Ad Hoc Networks with Wireless Information and Power Transfer", *IEEE Wireless Commun. Lett.*, vol. 4, no. 4, pp. 409-412, Aug. 2015.
51. K. Huang and **X. Zhou**, "Cutting Last Wires for Mobile Communication by Microwave Power Transfer", *IEEE Commun. Mag.*, vol. 53, no. 6, pp. 86 – 93, Jun. 2015.
52. Y. Huang, S. Durrani, and **X. Zhou**, "Interference Suppression using Generalized Inverse Precoder for Downlink Heterogeneous Networks", *IEEE Wireless Commun. Lett.*, vol. 4, no. 3, pp. 325-328, Jun. 2015.
53. A. A. Nasir, **X. Zhou**, S. Durrani, and R. A. Kennedy, "Wireless-Powered Relays in Cooperative Communications: Time-Switching Relaying Protocols and Throughput Analysis", *IEEE Trans. Commun.*, vol. 63, no. 5, pp. 1607-1622, May 2015.
54. X. Zhang, M. R. McKay, **X. Zhou**, and R. W. Heath Jr., "Artificial-Noise-Aided Secure Multi-Antenna Transmission with Limited Feedback", *IEEE Trans. Wireless Commun.*, vol. 14, no. 5, pp. 2742-2754, May 2015.
55. J. Guo, S. Durrani, and **X. Zhou**, "Performance Analysis of Arbitrarily-Shaped Underlay Cognitive Networks: Effect of Secondary User Activity Protocols", *IEEE Trans. Commun.*, vol. 63, no. 2, pp. 376-389, Feb. 2015.
56. J. Yang, S. Xie, **X. Zhou**, R. Yu, and Y. Zhang, "A Semiblind Two-Way Training Method for Discriminatory Channel Estimation in MIMO Systems", *IEEE Trans. Commun.*, vol. 62, no. 7, pp. 2400-

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2410, Jul. 2014.

57. W. Saad, **X. Zhou**, Z. Han, and H. V. Poor, "On the Physical Layer Security of Backscatter Wireless Systems", *IEEE Trans. Wireless Commun.*, vol. 13, no. 6, pp. 3442-3451, Jun. 2014.
58. H. Wang, **X. Zhou**, and M. C. Reed, "Coverage and Throughput Analysis with a Non-Uniform Small Cell Deployment", *IEEE Trans. Wireless Commun.*, vol. 13, no. 4, pp. 2047-2059, Apr. 2014.
59. C. Cai, Y. Cai, **X. Zhou**, W. Yang, and W. Yang, "When Does Relay Transmission Give a More Secure Connection in Wireless Ad Hoc Networks?", *IEEE Trans. Inf. Foren. Sec.*, vol. 9, no. 4, pp. 624-632, Apr. 2014.
60. J. Guo, S. Durrani, and **X. Zhou**, "Outage Probability in Arbitrarily-Shaped Finite Wireless Networks", *IEEE Trans. Commun.*, vol. 62, no. 2, pp. 699-712, Feb. 2014.
61. B. He and **X. Zhou**, "Secure On-Off Transmission Design with Channel Estimation Errors", *IEEE Trans. Inf. Foren. Sec.*, vol. 8, no. 12, pp. 1923-1936, Dec. 2013.
62. X. Zhang, **X. Zhou**, and M. R. McKay, "Enhancing Secrecy with Multi-Antenna Transmission in Wireless Ad Hoc Networks", *IEEE Trans. Inf. Foren. Sec.*, vol. 8, no. 11, pp. 1802-1814, Nov. 2013.
63. B. He, **X. Zhou**, and T. D. Abhayapala "Wireless Physical Layer Security with Imperfect Channel State Information: A Survey", *ZTE Commun.*, vol. 11, no. 3, pp. 11-19, Sept. 2013. (invited paper)
64. M.-H. Chen, S.-C. Lin, Y.-W. P. Hong, and **X. Zhou**, "On Cooperative and Malicious Behaviors in Multi-Relay Fading Channels", *IEEE Trans. Inf. Foren. Sec.*, vol. 8, no. 7, pp. 1126-1139, Jul. 2013.
65. A. A. Nasir, **X. Zhou**, S. Durrani, R. A. Kennedy, "Relaying Protocols for Wireless Energy Harvesting and Information Processing", *IEEE Trans. Wireless Commun.*, vol. 12, no. 7, pp. 3622-3636, Jul. 2013. (**2016 IEEE ComSoc Asia-Pacific outstanding paper award**)
66. H. Pezeshki, **X. Zhou**, B. Maham, "Jamming Energy Allocation in Training-Based Multiple Access Systems", *IEEE Commun. Lett.*, vol. 17, no. 6, pp. 1140-1143, Jun. 2013.
67. H. Wang, **X. Zhou**, and M. C. Reed, "Physical Layer Security in Cellular Networks: A Stochastic Geometry Approach", *IEEE Trans. Wireless Commun.*, vol. 12, no. 6, pp. 2776-2787, Jun. 2013.
68. X. Zhang, **X. Zhou**, and M. R. McKay, "On the Design of Artificial-Noise-Aided Secure Multi-Antenna Transmission in Slow Fading Channels", *IEEE Trans. Veh. Tech.*, vol. 62, no. 5, pp. 2170-2181, Jun. 2013.
69. C.-W. Huang, T.-H. Chang, **X. Zhou**, and Y.-W. P. Hong, "Two-Way Training for Discriminatory Channel Estimation in Wireless MIMO Systems", *IEEE Trans. Signal Processing*, vol. 61, no. 10, pp. 2724-2738, May 2013.
70. W. Saad, **X. Zhou**, B. Maham, T. Başar, and H. V. Poor, "Tree Formation with Physical Layer Security Considerations in Wireless Multi-Hop Networks", *IEEE Trans. Wireless Commun.*, vol. 11, no. 11, pp. 3980-3991, Nov. 2012.
71. **X. Zhou**, B. Maham, and A. Hjørungnes, "Pilot Contamination for Active Eavesdropping", *IEEE Trans. Wireless Commun.*, vol. 11, no. 3, pp. 903-907, Mar. 2012.
72. B. Maham, P. Popovski, **X. Zhou**, and A. Hjørungnes, "Cognitive Multiple Access Network with Outage Margin in the Primary System", *IEEE Trans. Wireless Commun.*, vol. 10, no. 10, pp. 3343-3353, Oct. 2011.
73. **X. Zhou**, R. K. Ganti, J. G. Andrews, and A. Hjørungnes, "On the Throughput Cost of Physical Layer Security in Decentralized Wireless Networks", *IEEE Trans. Wireless Commun.*, vol. 10, no. 8, pp. 2764-2775, Aug. 2011.
74. **X. Zhou**, D. Niyato, and A. Hjørungnes, "Optimizing Training-Based Transmission Against Smart

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Jamming", *IEEE Trans. Veh. Technol.*, vol. 60, no. 6, pp. 2644-2655, Jul. 2011.

75. T. A. Lamaweha, P. Sadeghi, and **X. Zhou**, "On Lower Bounding the Information Capacity of Amplify and Forward Wireless Relay Channels with Channel Estimation Errors", *IEEE Trans. Wireless Commun.*, vol. 10, no. 7, pp. 2075-2079, Jul. 2011.
76. **X. Zhou**, M. R. McKay, B. Maham, and A. Hjørungnes, "Rethinking the Secrecy Outage Formulation: A Secure Transmission Design Perspective", *IEEE Commun. Lett.*, vol. 15, no. 3, pp. 302-304, Mar. 2011. (*Finalist of 2013 IEEE ComSoc Heinrich Hertz Award for Best Communications Letter*)
77. **X. Zhou**, R. K. Ganti, and J. G. Andrews, "Secure Wireless Network Connectivity with Multi-Antenna Transmission", *IEEE Trans. Wireless Commun.*, vol. 10, no. 2, pp. 425-430, Feb. 2011. (*Top Accessed Articles in Feb. & Mar. 2011*)
78. **X. Zhou** and M. R. McKay, "Secure Transmission with Artificial Noise over Fading Channels: Achievable Rate and Optimal Power Allocation", *IEEE Trans. Veh. Technol.*, vol. 59, no. 8, pp. 3831-3842, Oct. 2010.
79. **X. Zhou**, T. Lamahewa, P. Sadeghi, and S. Durrani, "Two-way Training: Optimal Power Allocation for Pilot and Data Transmission", *IEEE Trans. Wireless Commun.*, vol. 9, no. 2, pp. 564-569, Feb. 2010.
80. **X. Zhou**, S. Durrani, and H. Jones, "Connectivity Analysis of Wireless Ad Hoc Networks with Beamforming", *IEEE Trans. Veh. Technol.*, vol. 58, no. 9, pp. 5247-5257, Nov. 2009.
81. **X. Zhou**, P. Sadeghi, T. Lamahewa, and S. Durrani, "Design Guidelines for Training-based MIMO Systems with Feedback", *IEEE Trans. Signal Processing*, vol. 57, no. 10, pp. 4014-4026, Oct. 2009.
82. **X. Zhou**, P. Sadeghi, T. Lamahewa, and S. Durrani, "Optimizing Antenna Configuration for MIMO Systems with Imperfect Channel Estimation", *IEEE Trans. Wireless Commun.*, vol. 8, no. 3, pp. 1177-1181, Mar. 2009.

Conference Papers:

1. N. Senadhira, S. Durrani, **X. Zhou**, N. Yang, and M. Ding, "Impact of UAV Trajectory on NOMA-Assisted Cellular-Connected UAV Networks", Proc. ICC, Dublin, Ireland, Jun. 2020.
2. S. A. Alvi, **X. Zhou**, S. Durrani, and D. T. Ngo, "Proportionally-Fair Sequencing and Scheduling for Machine-Type Communication", Proc. ICC, Dublin, Ireland, Jun. 2020.
3. S. Idrees, **X. Zhou**, S. Durrani, and D. Niyato, "A Retrodirective Wireless Power Transfer Scheme for Ambient Backscatter Systems", Proc. ICC, Dublin, Ireland, Jun. 2020.
4. Z. Tang, Z. Sun, N. Yang, and **X. Zhou**, "Age of Information of Multi-Source Systems with Packet Management", Proc. ICC Workshops, Dublin, Ireland, Jun. 2020.
5. X. Jia and **X. Zhou**, "Decode-and-Forward Relaying Using a Backscatter Device: Power Allocation and BER Analysis", Proc. Globecom, Waikoloa, HI, USA, Dec. 2019.
6. S. A. Alvi, **X. Zhou**, and S. Durrani, "Wireless Powered Machine-Type Communication: Energy Minimization via Compressed Transmission", Proc. PIMRC, Istanbul, Turkey, Sept. 2019.
7. K. Shahzad and **X. Zhou**, "Covert Communication in Backscatter Radio", Proc. ICC, Shanghai, China, May 2019.
8. S. Yan, Y. Cong, S. Hanly and **X. Zhou**, "Is Gaussian Signalling Optimal for Covert Communications?", Proc. ICC, Shanghai, China, May 2019.
9. X. Li, **X. Zhou**, D. W. K. Ng, and C. Sun, "Optimal Online Transmission Policy for Energy-Constrained Wireless-Powered Communication Networks", Proc. ICC, Shanghai, China, May 2019.
10. S. A. Alvi, **X. Zhou**, and S. Durrani, "A Lifetime Maximization Scheme for a Sensor Based MTC Device", Proc. Globecom, Abu Dhabi, UAE, Dec. 2018.

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11. J. Guo, **X. Zhou**, S. Durrani, and H. Yanikomeroglu, "Backscatter Communications with NOMA", Proc. ISWCS, Lisbon, Portugal, Aug. 2018. (invited paper)
12. J. Hu, K. Shahzad, S. Yan, **X. Zhou**, F. Shu, and J. Li, "Covert Communications with A Full-Duplex Receiver over Wireless Fading Channels", Proc. IEEE ICC, Kansas City, MO, May 2018.
13. Z. Abu-Shaban, **X. Zhou**, T. D. Abhayapala, G. Seco-Granados, and H. Wymeersch, "Performance of Location and Orientation Estimation in 5G mmWave Systems: Uplink vs Downlink", Proc. IEEE WCNC, Barcelona, Spain, Apr. 2018.
14. W. Liu, K. Huang, **X. Zhou**, and S. Durrani, "Time-Hopping Multiple-Access for Backscatter Interference Networks", Proc. IEEE Globecom, Singapore, Singapore, Dec. 2017.
15. J. Hu, S. Yan, **X. Zhou**, F. Shu, and J. Wang, "Covert Communication in Wireless Relay Networks", Proc. IEEE Globecom, Singapore, Singapore, Dec. 2017.
16. J. Guo, S. Durrani, **X. Zhou**, and H. Yanikomeroglu, "Machine-Type Communication with Random Access and Data Aggregation: A Stochastic Geometry Approach", Proc. IEEE Globecom, Singapore, Singapore, Dec. 2017.
17. K. Shahzad, **X. Zhou** and S. Yan, "Covert Communication in Fading Channels under Channel Uncertainty", Proc. IEEE VTC, Sydney, Australia, Jun. 2017.
18. S. Yan, B. He, Y. Cong, and **X. Zhou**, "Covert Communication with Finite Blocklength in AWGN Channels", Proc. IEEE ICC, Paris, France, May 2017.
19. S. Yan, **X. Zhou**, N. Yang, T. D. Abhayapala, and A. L. Swindlehurst, "Channel Training Design in Full-Duplex Wiretap Channels to Enhance Physical Layer Security", Proc. IEEE ICC, Paris, France, May 2017.
20. S. Yan, **X. Zhou**, N. Yang, B. He, and T. D. Abhayapala, "Correlation-Based Power Allocation for Secure Transmission with Artificial Noise", Proc. IEEE Globecom, Washington, DC, Dec. 2016.
21. Y. Cong and **X. Zhou**, "Offline Delay-Optimal Transmission for Energy Harvesting Nodes", Proc. IEEE Globecom, Washington, DC, Dec. 2016.
22. Y. Cong, **X. Zhou**, and R. A. Kennedy, "Rate-Achieving Policy in Finite-Horizon Capacity Region for Multi-User interference Channels", Proc. IEEE Globecom, Washington, DC, Dec. 2016.
23. Z. Abu-Shaban, H. Wymeersch, **X. Zhou**, G. Seco-Granados, and T. D. Abhayapala, "Random-Phase Beamforming for Initial Access in Millimeter-Wave Cellular Networks", Proc. IEEE Globecom, Washington, DC, Dec. 2016.
24. H. Zebardast, **X. Zhou**, and B. Maham, "MIMO Y Channel with Imperfect CSI: Impact of Training and Feedback Overhead", Proc. IEEE COMNETSAT, Surabaya, Indonesia, Dec. 2016.
25. Y. Huang, L. Bell, S. Durrani, **X. Zhou**, and N. Yang, "Effects of Load Dependent Dynamic Biasing and Association Order for Cell Range Expansion", Proc. ICSPCS, Gold Coast, Australia, Dec. 2016.
26. J. Hu, Y. Cai, N. Yang, **X. Zhou**, and W. Yang, "Secure Beamforming Transmission with Limited Training and Feedback", Proc. IEEE ICC, Chengdu, China, Jul. 2016.
27. Y. Cai, X. Xu, B. He, W. Yang, and **X. Zhou**, "Protecting Cognitive Radio Networks Against Poisson Distributed Eavesdroppers", Proc. IEEE ICC, Kuala Lumpur, Malaysia, May 2016.
28. W. Liu, **X. Zhou**, S. Durrani, and P. Popovski, "SWIPT with Practical Modulation and RF Energy Harvesting Sensitivity", Proc. IEEE ICC, Kuala Lumpur, Malaysia, May 2016.
29. M. M. Azari, S. Pollin, F. Rosas, B. Maham, and **X. Zhou**, "A Fair Opportunistic Relaying Algorithm Using an Adaptive Selection Region in Cooperative Networks", Proc. European Wireless Conference, Oulu, Finland, May 2016.

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30. Y. Huang, A. A. Nasir, S. Durrani, and **X. Zhou**, "Graphical Generalization of Power Control in Multiuser Interference Channels", *Proc. AusCTW*, Melbourne, Australia, Jan. 2016.
31. W. Liu, **X. Zhou**, S. Durrani, H. Mehrpouyan, and S. D. Blostein, "Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing", *Proc. IEEE Globecom*, San Diego, CA, Dec. 2015.
32. Y. Huang, S. Durrani, and **X. Zhou**, "Interference Nulling for Offloaded Heterogeneous Users Using Macro Generalized Inverse Precoder", *Proc. International Symposium on Communications and Information Technologies (ISCIT)*, Nara, Japan, Oct. 2015.
33. W. Liu, **X. Zhou**, and S. Durrani, "Wireless-Powered Friendly Jammer for Physical Layer Security", *Proc. WCSP*, Nanjing, China, Oct. 2015. (*invited paper*)
34. A. A. Nasir, **X. Zhou**, S. Durrani, and R. A. Kennedy, "Block-Wise Time-Switching Energy Harvesting Protocol for Wireless-Powered AF Relays", *Proc. IEEE ICC*, London, UK, Jun. 2015.
35. A. A. Nasir, D. T. Ngo, **X. Zhou**, R. A. Kennedy, and S. Durrani, "Sum Throughput Maximization for Heterogeneous Multicell Networks with RF-Powered Relays", *Proc. IEEE ICC*, London, UK, Jun. 2015.
36. M. Darabi, B. Maham, W. Saad, and **X. Zhou**, "Buffer-Aided Relay Selection and Secondary Power Minimization for Two-Way Cognitive Radio Networks", *Proc. IEEE ICC*, London, UK, Jun. 2015.
37. B. He, N. Yang, **X. Zhou**, and J. Yuan, "Confidential Broadcasting via Coordinated Beamforming in Two-Cell Networks", *Proc. IEEE ICC*, London, UK, Jun. 2015.
38. C. Wang, S. Durrani, J. Guo, and **X. Zhou**, "Call Completion Probability in Heterogeneous Networks with Energy Harvesting Base Stations", *Proc. International Conference on Telecommunications (ICT)*, Sydney, Australia, Apr. 2015.
39. J. Guo, S. Durrani, and **X. Zhou**, "Characterization of Aggregate Interference in Arbitrarily-shaped Underlay Cognitive Networks", *Proc. IEEE Globecom*, Austin, TX, Dec. 2014. (*best paper award finalist*)
40. B. He and **X. Zhou**, "New Physical Layer Security Measures for Wireless Transmissions over Fading Channels", *Proc. IEEE Globecom*, Austin, TX, Dec. 2014.
41. B. He and **X. Zhou**, "On the Placement of RF Energy Harvesting Node in Wireless Networks with Secrecy Considerations", *Proc. IEEE Globecom Workshop on Trusted Communications with Physical Layer Security*, Austin, TX, Dec. 2014.
42. H. Chen, **X. Zhou**, Y. Li, P. Wang, and B. Vucetic, "Wireless-Powered Cooperative Communications via a Hybrid Relay", *Proc. IEEE ITW*, Hobart, Australia, Nov. 2014.
43. H. Wang, M. C. Reed, **X. Zhou**, and W. Bai, "Performance Analysis of Asynchronous ABSF Configuration in Large-Scale Femtocell Networks", *Proc. Int. Symp. Wireless Personal Multimedia Commun. (PWMC)*, Sydney, Australia, Sep. 2014. (*invited paper*)
44. J. Yang, R. Yu, **X. Zhou**, and Y. Zhang, "An Improved Two-Way Training for Discriminatory Channel Estimation via Semiblind Approach", *Proc. IEEE ICC*, Sydney, Australia, Jun. 2014.
45. A. A. Nasir, **X. Zhou**, S. Durrani, and R. A. Kennedy, "Throughput and Ergodic Capacity of Wireless Energy Harvesting Based DF Relaying Network", *Proc. IEEE ICC*, Sydney, Australia, Jun. 2014.
46. X. Zhang, **X. Zhou**, M. R. McKay, and R. W. Heath Jr., "Artificial-Noise-Aided Secure Multi-Antenna Transmission in Slow Fading Channels with Limited Feedback", *Proc. IEEE ICASSP*, Florence, Italy, May 2014. (*best student paper award finalist*)
47. M. Darabi, B. Maham, **X. Zhou**, and W. Saad, "Buffer-Aided Relay Selection with Interference Cancellation and Secondary Power Minimization for Cognitive Radio Networks", *Proc. IEEE DySPAN*,

XIANGYUN ZHOU

McLean, VA, Apr. 2014.

48. **X. Zhou**, M. Qiu, S.-C. Lin, and Y.-W. P. Hong, "On the Jamming Power Allocation and Signal Design in DF Relay Networks", *Proc. IEEE Asilomar Conf. on Signals, Syst., and Computers (ACSSC)*, Pacific Grove, CA, Nov. 2013.
49. X. Zhang, **X. Zhou**, and M. R. McKay, "Enhancing Secrecy with Sectorized Transmission in Decentralized Wireless Networks", *Proc. IEEE Int. Workshop on Signal Processing Advances in Wireless Commun. (SPAWC)*, Darmstadt, Germany, Jun. 2013.
50. H. Wang, **X. Zhou**, and M. C. Reed, "Analytical Evaluation of Coverage-Oriented Femtocell Network Deployment", *Proc. IEEE Int. Conf. Commun. (ICC)*, Budapest, Hungary, Jun. 2013.
51. H. Wang, **X. Zhou**, and M. C. Reed, "On the Physical Layer Security in Large Scale Cellular Networks", *Proc. IEEE Wireless Commun. And Net. Conf. (WCNC)*, Shanghai, China, Apr. 2013.
52. B. He and **X. Zhou**, "Impact of Channel Estimation Error on Secure Transmission Design", *Proc. Australian Commun. Theory Workshop (AusCTW)*, Adelaide, Australia, Jan. 2013.
53. M. Mohammadi, H. A. Suraweera, and **X. Zhou**, "Outage Probability of Wireless Ad Hoc Networks with Cooperative Relaying", *Proc. IEEE Global Commun. Conf. (Globecom)*, Anaheim, CA, Dec. 2012.
54. B. Maham, P. Popovski, and **X. Zhou**, "Opportunistic Interference Cancellation and User Selection in Cognitive Multiple Access Network", *Proc. IEEE Workshop on Signal Processing Advances for Wireless Commun. (SPAWC)*, Izmir, Turkey, Jun. 2012.
55. **X. Zhou**, M. Tao, and R. A. Kennedy, "Cooperative Jamming for Secrecy in Decentralized Wireless Networks", *Proc. IEEE Int. Conf. Commun. (ICC)*, Ottawa, Canada, Jun. 2012.
56. **X. Zhou**, T. Lamahewa, P. Sadeghi, and A. Hjørungnes, "Relaying Energy Allocation in Training-Based Amplify and Forward Relay Communications", *Proc. Australian Commun. Theory Workshop (AusCTW)*, Wellington, New Zealand, Jan. 2012.
57. X. Zhang, **X. Zhou**, and M. R. McKay, "Benefits of Multiple Transmit Antennas in Secure Communication: A Secrecy Outage Viewpoint", *Proc. IEEE Asilomar Conf. on Signals, Syst., and Computers (ACSSC)*, Pacific Grove, CA, Nov. 2011. (*invited paper*)
58. C.-W. Huang, T.-H. Chang, **X. Zhou**, and Y.-W. P. Hong, "Two-Way Discriminatory Channel Estimation for Non-Reciprocal Wireless MIMO Channels", *Proc. IEEE Asilomar Conf. on Signals, Syst., and Computers (ACSSC)*, Pacific Grove, CA, Nov. 2011. (*invited paper*)
59. **X. Zhou**, R. K. Ganti, J. G. Andrews, and A. Hjørungnes, "Secrecy Transmission Capacity of Decentralized Wireless Networks", *Proc. Allerton Conf. Commun. Control and Computing*, Urbana, IL, Sept. 2011.
60. **X. Zhou**, D. Niyato, and A. Hjørungnes, "How Much Training is Needed Against Smart Jamming?", *Proc. IEEE Int. Conf. Commun. (ICC)*, Kyoto, Japan, Jun. 2011. (**won a Best Paper Award among 1092 accepted papers**)
61. C.-W. Huang, **X. Zhou**, T.-H. Chang, and Y.-W. P. Hong, "Two-Way Training Design for Discriminatory Channel Estimation in Wireless MIMO Systems", *Proc. IEEE Int. Conf. Commun. (ICC)*, Kyoto, Japan, Jun. 2011.
62. D. Niyato, **X. Zhou**, A. Hjørungnes, P. Wang, and Y. Li "Hierarchical Coalition Formation Game of Relay Transmission in IEEE 802.16m", *Proc. Int. Conf. Game Theory for Networks (GameNets)*, Shanghai, China, Apr. 2011. (*invited paper*)
63. **X. Zhou**, P. Sadeghi, T. Lamahewa, and A. Hjørungnes, "Optimal Flashy Transmission in Training-Based MISO TDD Systems", *Proc. Australian Commun. Theory Workshop (AusCTW)*, Melbourne,

XIANGYUN ZHOU

Australia, Jan. 2011.

64. S. Durrani, **X. Zhou** and A. Chandra, "Effect of Vehicle Mobility on Connectivity of Vehicular Ad hoc Networks", *Proc. IEEE Veh. Tech. Conf. (VTC-Fall)*, Ottawa, Canada, Sept. 2010, pp. 1-5.
65. **X. Zhou**, P. Sadeghi and T. Lamahewa, "Optimizing Training-based MIMO Systems: How Much Time is Needed for Actual Transmission?", *Proc. IEEE Veh. Tech. Conf. (VTC-Spring)*, Taipei, Taiwan, May 2010, pp. 1-5.
66. **X. Zhou**, T. Lamahewa, P. Sadeghi and S. Durrani, "Optimizing Training-based Transmission for Correlated MIMO Systems with Hybrid Feedback", *Proc. IEEE Global Commun. Conf. (Globecom)*, Honolulu, HI, Nov. 2009, pp. 1-6.
67. **X. Zhou**, T. Lamahewa and P. Sadeghi, "Kalman Filter-based Channel Estimation for Amplify and Forward Relay Communications", *Proc. IEEE Asilomar Conf. on Signals, Syst., and Computers (ACSSC)*, Pacific Grove, CA, Nov. 2009, pp. 1498-1502.
68. **X. Zhou**, M. R. McKay, "Physical Layer Security with Artificial Noise: Secrecy Capacity and Optimal Power Allocation", *Proc. Int. Conf. on Signal Processing and Commun. Syst. (ICSPCS)*, Omaha, NE, Sept. 2009, pp. 1-5.
69. **X. Zhou**, S. Durrani and H. M. Jones, "Connectivity of Ad hoc Networks: Is Fading Good or Bad?", *Proc. Int. Conf. on Signal Processing and Commun. Syst. (ICSPCS)*, Gold Coast, Australia. Dec. 2008, pp.1-5.
70. **X. Zhou**, T. Lamahewa, P. Sadeghi and S. Durrani, "Capacity of MIMO Systems: Impact of Spatial Correlation with Channel Estimation Errors", *Proc. IEEE Int. Conf. on Commun. Syst. (ICCS)*, Guangzhou, China, Nov. 2008, pp. 817-822.
71. **X. Zhou**, T. Lamahewa, P. Sadeghi and S. Durrani, "Designing PSAM Schemes: How Optimal are SISO Pilot Parameters for Spatially Correlated SIMO?", *Proc. IEEE Int. Symp. on Personal, Indoor and Mobile Radio Commun. (PIMRC)*, Cannes, France, Sept. 2008, pp. 1-6.
72. S. Durrani, **X. Zhou** and H. Jones, "Connectivity of Wireless Ad Hoc Networks with Random Beamforming: An Analytical Approach", *Proc. IEEE Int. Symp. on Personal, Indoor and Mobile Radio Commun. (PIMRC)*, Cannes, France, Sept. 2008, pp. 1-5.
73. **X. Zhou**, S. Durrani and H. Jones, "Analytical Study of Connectivity in Wireless Ad Hoc Networks with Random Beamforming", *Proc. Int. Conf. on Signal Processing and Commun. Syst. (ICSPCS)*, Gold Coast, Australia. Dec. 2007, pp. 321-325.
74. **X. Zhou**, Z. Shi and M. C. Reed, "Iterative Channel Estimation for IDMA systems in Time-varying Channels", *Proc. IEEE Global Commun. Conf. (Globecom)*, Washington, DC, Nov. 2007, pp. 4020-4024.
75. **X. Zhou**, H. Jones, S. Durrani and A. Scott, "Effect of Beamforming on the Connectivity of Ad Hoc Networks", *Proc. Australian Commun. Theory Workshop (AusCTW)*, Adelaide, Australia Feb. 2007, pp. 13-18.