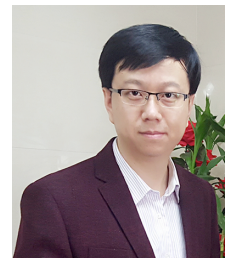


CURRICULUM VITAE

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EDUCATION

- Sun Yat-Sen University, Guangzhou, China 2007 – 2010
Ph.D. in Communication and Information Systems
- Sun Yat-Sen University, Guangzhou, China 2004 – 2006
M.E. in Communication and Information Systems

EXPERIENCE

Full-Time Positions

- Macau University of Science and Technology, Macau SAR, China 07/2017 – Present
Associate Professor, Faculty of Information Technology
- Macau University of Science and Technology, Macau SAR, China 09/2010 – 06/2017
Assistant Professor, Faculty of Information Technology

Part-Time Positions

- Macau University of Science and Technology, Macau SAR, China 01/2010 – 06/2010
Part-Time Lecturer, Faculty of Information Technology

Visiting Positions

- The Chinese University of Hong Kong, Shenzhen, China 07/2015 – 08/2015
Visiting Scholar, The School of Science and Engineering
- Agency for Science, Technology and Research (A*STAR), Singapore 07/2012 – 08/2012
Visiting Researcher, Institute for Infocomm Research (I²R)

HONORS

- 2022, World's Top 2% Scientist, Stanford University
- 2021, World's Top 2% Scientist, Stanford University
- 2020, World's Top 2% Scientist, Stanford University

AWARDS

For Research

- 2023, Distinguished Paper Award, IEEE International Conference on Green Computing and Communications (GreenCom)
- 2023, Best Paper Award, IEEE International Conference on E-health Networking, Application & Services (HealthCom)
- 2023, Best Paper Award, IEEE International Conference on Communication Technology (ICCT)
- 2022, Best Research Output Award, Macau University of Science and Technology
- 2021, Bank of China (BOC) Excellent Research Award, Macau University of Science and Technology
- 2019, Bank of China (BOC) Excellent Research Award, Macau University of Science and Technology
- 2016, Bank of China (BOC) Excellent Research Award, Macau University of Science and Technology
- 2011, Bank of China (BOC) Excellent Research Award, Macau University of Science and Technology

For Services

- 2021, 10 Years of Services, Macau University of Science and Technology

RESEARCH

Research Interests

- Intelligent Reflecting Surface-Assisted Communication
- Backscatter Communication, Ambient Backscatter
- Wireless AI and Communications

Projects

Co-Funded by the Ministry of Science and Technology (MOST) of P. R. China & Macau Science and Technology Development Fund (FDCT)

- PI, Grant 0018/2019/AMJ, 1,827,100 MOP, 21/09/2020 – 21/09/2023;

Co-Funded by the Ministry of Science and Technology (GDST) of P. R. China & Macau Science and Technology Development Fund (FDCT)

- PI, Grant 0029/2021/AGJ, 1,130,000 MOP, 16/07/2022 – 16/07/2024;

Funded by the Macau Science and Technology Development Fund (FDCT)

- PI, Grant 0110/2020/A3, 859,100 MOP, 07/06/2021 – 07/06/2023;
- Co-I, Grant 0003/2019/A1, 1,963,500 MOP, 21/09/2020 – 21/09/2023;
- PI, Grant 0003/2019/A1, 1,166,000 MOP, 28/06/2019 – 28/06/2022;
- PI, Grant 0014/2018/A, 493,900 MOP, 20/12/2018 – 20/12/2020;
- PI, Grant 052/2016/A, 471,680 MOP, 28/12/2016 – 28/12/2018;

Funded by Industry

- PI, 200,000 RMB, 01/07/2023 – 30/12/2024;
- PI, 200,000 RMB, 21/09/2023 – 21/09/2024;

PUBLICATIONS

Journal Papers

Accepted/Published

1. B. Gu, D. Li and H. Xie, "Computation-Efficient Backscatter-Blessed MEC with User Reciprocity," accepted by *IEEE Transactions on Vehicular Technology*, 2023.
2. X. Yu and D. Li, "Attention Mechanism Aided Signal Detection in Backscatter Communications with Insufficient Training Data," accepted by *IEEE Transactions on Vehicular Technology*, 2023.
3. H. Xie and D. Li, "How Much Time is Required for Phase Shift Delivery in RIS-Aided Wireless Systems?" accepted by *IEEE Wireless Communications Letters*, 2023.
4. C. Liang, D. Li, Z. Lin and H. Cao, "Selection-Based Image Generation for Semantic Communication System," accepted by *IEEE Communications Letters*, 2023.
5. Y. Xu, B. Gu, Z. Gao, D. Li, Q. Wu and Y. Chau, "Applying RIS in Multi-User SWIPT-WPCN Systems: A Robust and Environmentally-Friendly Design," accepted by *IEEE Transactions on Cognitive Communications and Networking*, 2023.
6. Z. Yan and D. Li, "Convergence Time Optimization for Decentralized Federated Learning with LEO Satellites via Number Control," accepted by *IEEE Transactions on Vehicular Technology*, 2023.
7. Z. Zhang, L. He, D. Li and Y. He, "Cross Metaplectic Wigner Distribution: Definition Revisited, Relation to Short-Time Metaplectic Transform, and Uncertainty Principles," accepted by *IEEE Transactions on Information Technology*, 2023.
8. Y. Liu, D. Li, H. Dai, X. Ma and C. A. Boano, "Understanding Concurrent Radiative Wireless Power Transfer in IoT: Out of Myth, into Reality," accepted by *IEEE Wireless Communications*, 2023.
9. T. Liang, T. Zhang, Q. Wu, W. Liu, D. Li, Z. Xie, D. Li and Q. Zhang, "Age of Information Based Scheduling for UAV Aided Localization and Communication," accepted by *IEEE Transactions on Wireless Communications*, 2023.
10. Z. Lin, H. Niu, K. An, D. Li, J. Wang and N. A.-Dhahir, "Pain without Gain: Destructive Beamforming from A Malicious RIS Perspective in IoT Network," accepted by *IEEE Internet of*

- Things Journal*, 2023.
11. H. Zhang, X. Liu, Y. Xu, D. Li, C. Yuen and Q. Xue, "Partial Offloading and Resource Allocation for MEC-Assisted Vehicular Networks," accepted by *IEEE Transactions on Vehicular Technology*, 2023.
 12. K. Li, M. Cui, G. Zhang, Q. Wu, D. Li and J. He, "Robust Transmit and Reflect Beamforming Design for IRS-Assisted Offshore NOMA Communication Systems," accepted by *IEEE Transactions on Vehicular Technology*, 2023.
 13. Y. Liu, D. Li, H. Dai, C. Li and R. Zhang, "Understanding the Impact of Environmental Conditions on Zero-Power Internet of Things: An Experimental Evaluation," accepted by *IEEE Wireless Communications*, 2022.
 14. H. Xie and D. Li, "To Reflect or Not To Reflect: On-Off Control and Number Configuration for Reflecting Elements in RIS-Aided Wireless Systems," *IEEE Transactions on Communications*, vol. 71, no. 12, pp. 7409-7424, December 2023.
 15. W. Liu, D. Li, T. Liang, T. Zhang, Z. Lin and N. A.-Dhahir, "Joint Trajectory and Scheduling Optimization for Age of Synchronization Minimization in UAV-Assisted Networks with Random Updates," *IEEE Transactions on Communications*, vol. 71, no. 11, pp. 6633-6646, November 2023.
 16. C. Wu, F. Ke, X. Yang, M. Wen, D. Li and X. Zhang, "Joint Energy and Information Precoding for NOMA-based WPCNs Aided by Reconfigurable Intelligent Surface," *IEEE Transactions on Vehicular Technology*, vol. 72, no. 11, pp. 14559-14572, November 2023.
 17. X. Yu, D. Li, Z. Wang and S. Sun, "An Integrated New Deep Learning Framework for Reliable CSI Acquisition in Connected and Autonomous Vehicles," *IEEE Network*, Special Issue on Connected and Autonomous Vehicles, vol. 37, no. 4, pp. 216-222, October 2023.
 18. C. Zhou, Y. Xu, D. Li, C. Huang, C. Yuen, J. Zhou and G. Yang, "Energy-Efficient Maximization for RIS-Aided MISO Symbiotic Radio Systems," *IEEE Transactions on Vehicular Technology*, vol. 72, no. 10, pp. 13689-13694, October 2023.
 19. Z. Yan, D. Li, Z. Zhang and J. He, "Accuracy-Security Tradeoff with Balanced Aggregation and Artificial Noise for Wireless Federated Learning," *IEEE Internet of Things Journal*, vol. 10, no. 20, pp. 18154-18167, October 2023.
 20. Y. Xu, R. Xu, D. Li, G. Yang, G. Wang, C. Yuen and J. Zhou, "Robust Resource Allocation for Wireless-Powered Backscatter Communication Systems with NOMA," *IEEE Transactions on Vehicular Technology*, vol. 72, no. 9, pp. 12288-12299, September 2023.
 21. Z. Zhang, Z. Zhu, D. Li and Y. He, "Free Metaplectic Wigner Distribution: Definition and Heisenberg's Uncertainty Principles," *IEEE Transactions on Information Theory*, vol. 69, no. 10, pp. 6787-6810, September 2023.
 22. P. Huang, D. Li and Z. Yan, "Wireless Federated Learning with Asynchronous and Quantized Updates," *IEEE Communications Letters*, vol. 27, no. 9, pp. 2393-2397, September 2023.
 23. H. Xie, B. Gu, D. Li, Z. Lin and Y. Xu, "Gain without Pain: Recycling Reflected Energy from Wireless Powered RIS-aided Communications," *IEEE Internet of Things Journal*, vol. 10, no. 15, pp. 13264-13280, August 2023.
 24. B. Gu, D. Li, Y. Liu and Y. Xu, "Exploiting Constructive Interference for Backscatter Communication Systems," *IEEE Transactions on Communications*, vol. 71, no. 7, pp. 4344-4359, July 2023.
 25. B. Gu, H. Xie and D. Li, "Act before Another is Aware: Safeguarding Backscatter Systems with Covert Communications," *IEEE Wireless Communications Letters*, vol. 12, no. 6, pp. 1106-1110, June 2023.
 26. F. Huang and D. Li, "Spatial Modulation with Joint Permutation, Group and Antenna Index," *IEEE Wireless Communications Letters*, vol. 12, no. 4, pp. 753-757, April 2023.
 27. Z. Zhang, D. Li, Y. He, Y. Chen, J. Zhang and C. Zhou, "K-Wigner Distribution: Definition, Uncertainty Principles and Time-Frequency Analysis," *IEEE Transactions on Information Theory*, vol. 69, no. 4, pp. 2722-2736, April 2023.
 28. Y. Zhai, Y. Hu, Y. Wang, Z. Lin, Y. Zhang, Q. Zhao and D. Li, "An Inter-Satellite Link Assignment Design for Mega-constellation Based on NSGA-II," *Wireless Communications and Mobile Computing*, Special Issue on Coverage Enhancement Techniques for B5G/6G with Aerial Networks, vol. 2023, Article ID 5977121, 8 pages, February 2023.
 29. H. Niu, Z. Lin, K. An, X. Liang, Y. Hu, D. Li and G. Zheng, "Active RIS-Assisted Secure Transmission for Cognitive Satellite Terrestrial Networks," *IEEE Transactions on Vehicular Technology*, vol. 72, no. 2, pp. 2609-2614, February 2023.

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31. B. Gu, D. Li, Y. Xu, C. Li and S. Sun, "Many a Little Makes a Mickle: Probing Backscattering Energy Recycling for Backscatter Communications," *IEEE Transactions on Vehicular Technology*, vol. 72, no. 1, pp. 1343-1348, January 2023.
32. Y. Wang, Z. Lin, H. Niu, K. An, Y. Hu, D. Li, G. Zheng and A.-D. Naofal, "Secure Satellite Transmission with Active Reconfigurable Intelligent Surface," *IEEE Communications Letters*, vol. 26, no. 12, pp. 3029-3033, December 2022.
33. Z. Yan, D. Li, X. Yu and Z. Zhang, "Latency-Efficient Wireless Federated Learning with Quantization and Scheduling," *IEEE Communications Letters*, vol. 26, no. 11, pp. 2621-2625, November 2022.
34. Y. Xu, H. Xie, D. Li, and R. Q. Hu, "Energy-Efficient Beamforming Design for 5G Heterogeneous Industrial IoT Networks with Phase and Distortion Noises," *IEEE Transactions on Industrial Informatics*, vol. 18, no. 11, pp. 7423-7434, November 2022.
35. D. Li, "Bound Analysis of Number Configuration for Reflecting Elements in IRS-Assisted D2D Communications," *IEEE Wireless Communications Letters*, vol. 11, no. 10, pp. 2220-2224, October 2022.
36. Y. Peng, Y. Liu, D. Li and H. Zhang, "Deep Reinforcement Learning Based Freshness-Aware Path Planning for UAV-Assisted Edge Computing Networks with Device Mobility," *Remote Sensing*, vol. 14, no. 16, pp. 1-20, August 2022.
37. Y. Liu, D. Li, B. Du, L. Shu and G. Han, "Rethinking Sustainable Sensing in Agricultural Internet of Things: From Power Supply Perspective," *IEEE Wireless Communications*, vol. 29, no. 4, pp. 102-109, August 2022.
38. F. Huang and D. Li, "Extended Space Index Modulation," *IEEE Wireless Communication Letters*, vol. 11, no. 6, pp. 1171-1175, June 2022.
39. Y. Xu, M. Yang, Y. Yang, Y. Ye, R. Q. Hu and D. Li, "Max-Min Energy-Efficient Optimization for Cognitive Heterogeneous Networks with Spectrum Sensing Errors and Channel Uncertainties," *IEEE Wireless Communications Letters*, vol. 11, no. 6, pp. 1113-1117, June 2022.
40. D. Li, "How Many Reflecting Elements are Needed for Energy- and Spectral-Efficient Intelligent Reflecting Surface-Assisted Communication," *IEEE Transactions on Communications*, vol. 70, no. 2, pp. 1320-1331, February 2022.
41. Y. Xu, B. Gu, D. Li, Z. Yang, C. Huang and K.-K. Wong, "Resource Allocation for Secure SWIPT-enabled D2D Communications with Alpha Fairness," *IEEE Transactions on Vehicular Technology*, vol. 71, no. 1, pp. 1101-1106, January 2022.
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45. R. Zhao, J. Xia, Z. Zhao, L. Fan and D. Li, "Green MEC Networks Design under UAV Attack: A Deep Reinforcement Learning Approach," *IEEE Transactions on Green Communications and Networking*, vol. 5, no. 3, pp. 1248-1258, September 2021.
46. X. Li, Y. Zheng, W. U. Khan, M. Zeng, D. Li, G. K. Ragesh and L. Li, "Physical Layer Security of Cognitive Ambient Backscatter Communications for Green Internet-of-Things," *IEEE Transactions on Green Communications and Networking*, Special Issue on Green Internet of Things: Challenges and Future Opportunities, vol. 5, no. 3, pp. 1066-1076, September 2021.
47. M. Fan, D. Li, H. Zhang, L. Fang and I. Trigui, "Performance Analysis of Short-Packet Communications with Incremental Relaying," *Computer Communications*, vol. 177, pp. 51-56, September 2021.
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49. Y. Ye, L. Shi, X. Chu, D. Li and G. Lu, "Delay Minimization in Wireless Powered Mobile Edge

- Computing With Hybrid BackCom and AT,” *IEEE Wireless Communications Letters*, vol. 10, no. 7, pp. 1532-1536, July 2021.
50. D. Li, “Fairness-Aware Multiuser Scheduling for Finite-Resolution Intelligent Reflecting Surface-Assisted Communication,” *IEEE Communications Letters*, vol. 25, no. 7, pp. 2395-2397, July 2021.
 51. Y. Xu, B. Gu, R. Q. Hu, D. Li and H. Zhang, “Joint Computation Offloading and Radio Resource Allocation in MEC-based Wireless-Powered Backscatter Communication Networks,” *IEEE Transactions on Vehicular Technology*, vol. 70, no. 6, pp. 6200-6205, June 2021.
 52. C. Li, J. Xia, F. Liu, D. Li, L. Fan, G. K. Karagiannidis and A. Nallanathan, “Dynamic Offloading for Multiuser Multi-CAP MEC Networks: A Deep Reinforcement Learning Approach,” *IEEE Transactions on Vehicular Technology*, vol. 70, no. 3, pp. 2922-2927, March 2021.
 53. Z. Zhang, D. Li, Y. Chen and J. Zhang, “Linear Canonical Wigner Distribution of Noisy LFM Signals via Multiobjective Optimization Analysis Involving Variance-SNR,” *IEEE Communications Letters*, vol. 25, no. 2, pp. 546-550, February 2021.
 54. K. He, Z. Wang, D. Li, F. Zhu and L. Fan, “Ultra-reliable MU-MIMO detector based on deep learning for 5G/B5G-enabled IoT,” *Physical Communications*, vol. 43, pp. 1-7, December 2020.
 55. D. Li, “Hybrid Active and Passive Antenna Selection for Backscatter-Assisted MISO Systems,” *IEEE Transactions on Communications*, vol. 68, no. 11, pp. 7258-7269, November 2020.
 56. D. Li, “Backscatter Communication Powered by Selective Relaying,” *IEEE Transactions on Vehicular Technology*, vol. 69, no. 11, pp. 14037-14042, November 2020.
 57. D. Li, “Ergodic Capacity of Intelligent Reflecting Surface-Assisted Communication Systems with Phase Errors,” *IEEE Communications Letters*, vol. 24, no. 8, pp. 1646-1650, August 2020.
 58. D. Li, “Fairness-Based Multiuser Scheduling for Ambient Backscatter Communication Systems,” *IEEE Wireless Communications Letters*, vol. 9, no. 8, pp. 1150-1154, August, 2020.
 59. Z. Zhao, R. Zhao, J. Xia, X. Lei, D. Li, Y. Chau and L. Fan, “A Novel Framework of Three-Hierarchical Offloading Optimization for MEC in Industrial IoT Networks,” *IEEE Transactions on Industrial Informatics*, Special Section on Social and Cognitive Mobile Computing in Industrial Internet of Things, vol. 16, no. 8, pp. 5424-5434, August 2020.
 60. D. Li, “Backscatter Communication via Harvest-Then-Transmit Relaying,” *IEEE Transactions on Vehicular Technology*, vol. 69, no. 6, pp. 6843-6847, June 2020.
 61. Y. Ma, Z. Quan, D. Li, S. Zhang, X. Li, Z. Feng and Z. Ding, “Optimal Linear Cooperation for Signal Classification in Cognitive Communication Networks,” *IEEE Transactions on Wireless Communications*, vol. 19, no. 5, pp. 3144-3155, May 2020.
 62. D. Li, “Two Birds with One Stone: Exploiting Decode-and-Forward Relaying for Opportunistic Ambient Backscattering,” *IEEE Transactions on Communications*, vol. 68, no. 3, pp. 1405-1416, March 2020.
 63. D. Deng, J. Xiao, Y. Yan, L. Fan, D. Li and H. Zhu, “When Distributed Switch-and-Stay Combining Meets Buffer in IoT Relaying Networks,” *Physical Communications*, vol. 38, pp. 1-9, February 2020.
 64. D. Li, H. Zhang and L. Fang, “Adaptive Mode Selection for Backscatter-Assisted Communication Systems with Opportunistic SIC,” *IEEE Transactions on Vehicular Technology*, vol. 69, no. 2, pp. 2327-2331, February 2020.
 65. D. Li, “Capacity of Backscatter Communication with Frequency Shift in Rician Fading Channels,” *IEEE Wireless Communications Letters*, vol. 8, no. 6, pp. 1639-1643, December 2019.
 66. D. Li and Y.-C. Liang, “Price-Based Bandwidth Allocation for Backscatter Communication with Bandwidth Constraints,” *IEEE Transactions on Wireless Communications*, vol. 18, no. 11, pp. 5170-5180, November 2019.
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 68. Y. Ma, Z. Quan, D. Li and J. Zhang, “Minimizing Misclassification for Cooperative Spectrum Sensing using M-ary Hypothesis Testing,” *IEEE Transactions on Vehicular Technology*, vol. 68, no. 8, pp. 8210-8215, August 2019.
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 70. J. Li, C. Yuen, D. Li, H. Zhang and X. Wu, “On Hybrid Pilot for Channel Estimation in Massive MIMO Uplink,” *IEEE Transactions on Vehicular Technology*, vol. 68, no. 7, pp. 6670-6685, July 2019.

71. D. Li and Y.-C. Liang, "Adaptive Ambient Backscatter Communication Systems with MRC," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 12, pp. 12352-12357, December 2018.
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73. D. Li, W. Peng and Y.-C. Liang, "Hybrid Ambient Backscatter Communication Systems with Harvest-Then-Transmit Protocols," *IEEE Access*, vol. 6, pp. 45288-45298, September 2018.
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84. D. Li, "On the Capacity of Cognitive Broadcast Channels with Opportunistic Scheduling," *Wireless Communications and Mobile Computing*, vol. 13, no. 2, pp. 198-203, February 2013.
85. D. Li, "Outage Probability and Power Allocation for Cooperative Multicast Systems," *IEEE Communications Letters*, vol. 16, no. 7, pp. 1080-1083, July 2012.
86. D. Li, "Joint Power and Rate Control Combined with Adaptive Modulation in Cognitive Radio Networks," *Wireless Personal Communications*, vol. 63, no. 3, pp. 549-559, April 2012.
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88. D. Li, "Outage Probability of Cognitive Radio Networks with Relay Selection," *IET Communications*, vol. 5, no. 18, pp. 2730-2735, December 2011.
89. D. Li, "Efficient Power Allocation for Multiuser Cognitive Radio Networks," *Wireless Personal Communications*, vol. 59, no. 4, pp. 589-597, August 2011.
90. D. Li, "Effect of Channel Estimation Errors on Arbitrary Transmit Antenna Selection for Cognitive MISO Systems," *IEEE Communications Letters*, vol. 15, no. 6, pp. 656-658, June 2011.
91. D. Li, "Performance Analysis of Uplink Cognitive Cellular Networks with Opportunistic Scheduling," *IEEE Communications Letters*, vol. 14, no. 9, pp. 827-829, September, 2010.
92. X. Dai, H. Zhang and D. Li, "Superimposed Training for MIMO/OFDM Systems in Linearly Time-Variant Wireless Channels," *IEEE Transactions on Communications*, vol. 58, no. 2, pp. 681-693, February 2010.
93. H. Zhang, X. Dai, D. Li and S. Ye, "Linearly Time-Varying Channel Estimation and Symbol Detection for OFDMA Uplink using Superimposed Training," *EURASIP Journal on Wireless Communications and Networking*, Special Issue on OFDMA Architectures, Protocols, and Applications, vol. 2009, Article ID 307375, 11 pages, May 2009.
94. D. Li, X. Dai and H. Zhang, "Sidelobe Suppression in NC-OFDM Systems using Constellation Adjustment," *IEEE Communications Letters*, vol. 13, no. 5, pp. 327-329, May 2009.

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Conference Papers

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2. M. Jiang, X. Liu, D. Li and W. Gong, "Efficient Two-Way Edge Backscatter with Commodity Bluetooth," in *Proceedings of the 2024 IEEE International Conference on Computer Communications (INFOCOM 2024)*, Vancouver, Canada, May 20-23, 2024.
3. K. Yu, K. Li, Z. Feng, X. Zhao, D. Li, C. Luo and T. Chen, "Secure URLLC Empowered by UAV in 6G: An Interference Engineering Perspective," in *Proceedings of the 2023 IEEE International Conference on Green Computing and Communications (GreenCom 2023)*, Ocean Flower Island, Hainan, China, December 17-21, 2023.
4. W. Liu, Y. Liu, Q. Yang and D. Li, "AntiNoise: A Collaborative Sensing Network for Simultaneous Noise Pollution Monitoring and E-Health Management," in *Proceedings of the 2023 IEEE International Conference on E-health Networking, Application & Services (HealthCom 2023)*, Chongqing, China, December 15-17, 2023.
5. X. Zhao, K. Yu, D. Li, X. Liu and C. Luo, "Secure Ultra-Reliable and Low Latency Communication in NOMA-UAV Networks," in *Proceedings of the 2023 IEEE International Conference on Mobility, Sensing and Networking (MSN 2023)*, Nanjing, China, December 14-16, 2023.
6. X. Yu, D. Li, H. Cao, Z. Lin, K. An, J. Wang and N. A.-Dhahir, "Phase Shift Signaling Reduction for IRS-Aided Internet of Things Networks by Exploiting Global Attention," in *Proceedings of the 2023 IEEE International Conference on Communication Technology (ICCT 2023)*, Wuxi, China, October 20-22, 2023.
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