

# Xiliang Luo

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

846  
citations

758635

12  
h-index

580395

25  
g-index

74  
all docs

74  
docs citations

74  
times ranked

786  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | GAN and Multi-Agent DRL Based Decentralized Traffic Light Signal Control. IEEE Transactions on Vehicular Technology, 2022, 71, 1333-1348.                                      | 3.9 | 12        |
| 2  | Serving Mobile Users in Intelligent Reflecting Surface Assisted Massive MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 6384-6396.                           | 3.9 | 1         |
| 3  | Joint Control of Power, Beamwidth, and Spacing for Platoon-Based Vehicular Cyber-Physical Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 8615-8629.             | 3.9 | 2         |
| 4  | A study on CSI feedback schemes exploiting feedforward information in FDD cellular systems. Transactions on Emerging Telecommunications Technologies, 2021, 32, .              | 2.6 | 0         |
| 5  | IRS-Based TDD Reciprocity Breaking for Pilot Decontamination in Massive MIMO. IEEE Wireless Communications Letters, 2021, 10, 102-106.   | 3.2 | 4         |
| 6  | Intelligent Traffic Network Control in the Era of Internet of Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 9787-9802.  | 3.9 | 11        |
| 7  | Joint Traffic Signal and Connected Vehicle Control in IoV via Deep Reinforcement Learning. , 2021, , .   |     | 4         |
| 8  | Downlink Channel Tracking for Intelligent Reflecting Surface-Aided FDD MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 3341-3353.                           | 3.9 | 16        |
| 9  | Optimal Configuration of Intelligent Walls for Interference Management in Smart Buildings. , 2021, , .   |     | 0         |
| 10 | Fog-Enabled Intelligent IoT Systems. , 2020, , .   |     | 13        |
| 11 | JOTE: Joint Offloading of Tasks and Energy in Fog-Enabled IoT Networks. IEEE Internet of Things Journal, 2020, 7, 3067-3082.   | 5.5 | 27        |
| 12 | Three-Dimensional Channel Power Spectrum Extraction in Massive MIMO for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 11170-11182.                                 | 5.5 | 2         |
| 13 | Optimal Query Policy and Task Offloading in Dynamic Environments. , 2020, , .  |     | 2         |
| 14 | Global Traffic State Recovery VIA Local Observations with Generative Adversarial Networks. , 2020, , .   |     | 1         |
| 15 | Online Task Scheduling and Resource Allocation for Intelligent NOMA-Based Industrial Internet of Things. IEEE Journal on Selected Areas in Communications, 2020, 38, 803-815.  | 9.7 | 57        |
| 16 | A Restless MAB-Based Index Policy for UL Pilot Allocation in Massive MIMO Over Gaussâ€™Markov Fading Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 3034-3047. | 3.9 | 3         |
| 17 | Greedy Hybrid Rate Adaptation in Dynamic Wireless Communication Environment. , 2020, , .   |     | 2         |
| 18 | Fog Computing Architecture and Technologies. , 2020, , 39-60.  |     | 7         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Analytical Framework for Multi-Task Multi-Helper Fog Networks. , 2020, , 61-98.  |     | 0         |
| 20 | Social Bandit Learning: Strangers Can Help. , 2020, , .  |     | 0         |
| 21 | BLOT: Bandit Learning-Based Offloading of Tasks in Fog-Enabled Networks. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2636-2649. | 4.0 | 41        |
| 22 | Online Learning for Computation Peer Offloading with Semi-bandit Feedback. , 2019, , .   |     | 6         |
| 23 | Task Offloading Strategy and Pricing Scheme in Fog-Enabled Networks. , 2019, , .   |     | 1         |
| 24 | Task Offloading in NOMA-Based Fog Computing Networks: A Deep Q-Learning Approach. , 2019, , .  |     | 6         |
| 25 | Age of Information Analysis for Dynamic Spectrum Sharing. , 2019, , .  |     | 15        |
| 26 | Uplink Pilot Allocation in Massive MIMO over Gauss-Markov Fading Channels. , 2019, , .   |     | 1         |
| 27 | Learn to Offload in Mobile Edge Computing. , 2019, , .   |     | 0         |
| 28 | Handover Mitigation in Dense HetNets via Bandit Arm Elimination. , 2019, , .   |     | 5         |
| 29 | Massive MIMO Self-Calibration: Optimal Interconnection for Full Calibration. IEEE Transactions on Vehicular Technology, 2019, 68, 10357-10371.       | 3.9 | 8         |
| 30 | Task Offloading Policy for Nodes with Energy Harvesting Capabilities. , 2019, , .  |     | 2         |
| 31 | Time Reusing in D2D-Enabled Cooperative Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3185-3200.                                 | 6.1 | 17        |
| 32 | Pilot Contamination in Massive MIMO Induced by Timing and Frequency Errors. IEEE Transactions on Wireless Communications, 2018, 17, 4477-4492.       | 6.1 | 15        |
| 33 | DEBTS: Delay Energy Balanced Task Scheduling in Homogeneous Fog Networks. IEEE Internet of Things Journal, 2018, 5, 2094-2106.                       | 5.5 | 130       |
| 34 | Adaptive Queuing Censoring for Big Data Processing. IEEE Signal Processing Letters, 2018, 25, 610-614.   | 2.1 | 9         |
| 35 | Distributed Censoring with Energy Constraint in Wireless Sensor Networks. , 2018, , .  |     | 7         |
| 36 | HOW TO EXPLOIT MOBILITY TO MITIGATE PILOT CONTAMINATION?. , 2018, , .  |     | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Learn and Pick Right Nodes to Offload. , 2018, , .   |     | 14        |
| 38 | AN ONLINE LEARNING APPROACH TO WIRELESS COMPUTATION OFFLOADING. , 2018, , .  |     | 6         |
| 39 | MIDAR: Massive MIMO Based Detection and Ranging. , 2018, , .   |     | 3         |
| 40 | How to Interconnect for Massive MIMO Self-Calibration?. , 2018, , .  |     | 2         |
| 41 | Pilot Decontamination with Directional Doppler PSD in Massive MIMO. , 2018, , .  |     | 0         |
| 42 | OPTIMAL TASK OFFLOADING IN FOG-ENABLED NETWORKS VIA INDEX POLICIES. , 2018, , .  |     | 5         |
| 43 | ENERGY-AWARE SENSOR SCHEDULING IN DISTRIBUTED GAUSSIAN DETECTION. , 2018, , .  |     | 1         |
| 44 | Optimal Frequency Reuse in HetNets With In-Band Relays. IEEE Access, 2018, 6, 67082-67094.   | 2.6 | 0         |
| 45 | Fog as a Service Technology. IEEE Communications Magazine, 2018, 56, 95-101.   | 4.9 | 80        |
| 46 | A Non-Stationary Online Learning Approach to Mobility Management. , 2018, , .  |     | 3         |
| 47 | Sparse Spectrum Reuse in HetNets with Relays. , 2018, , .  |     | 0         |
| 48 | Maximal energy efficient task scheduling for homogeneous fog networks. , 2018, , .   |     | 9         |
| 49 | Optimal Interconnection for Massive MIMO Self-Calibration. , 2018, , .   |     | 3         |
| 50 | MEETS: Maximal Energy Efficient Task Scheduling in Homogeneous Fog Networks. IEEE Internet of Things Journal, 2018, 5, 4076-4087.  | 5.5 | 144       |
| 51 | Delay-Oriented QoS-Aware User Association and Resource Allocation in Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1809-1822. | 6.1 | 39        |
| 52 | A Scalable Framework for CSI Feedback in FDD Massive MIMO via DL Path Aligning. IEEE Transactions on Signal Processing, 2017, 65, 4702-4716.                             | 3.2 | 10        |
| 53 | Joint Dimming and Data Transmission Optimization for Multi-user Visible Light Communication System. IEEE Access, 2017, , 1-1.  | 2.6 | 11        |
| 54 | A queuing method for adaptive censoring in big data processing. , 2017, , .  |     | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Online censoring for real-time digital predistortion linearization of power amplifiers. , 2017, , .  |     | 0         |
| 56 | Aligning Power in Multiple Domains for Pilot Decontamination in Massive MIMO. IEEE Transactions on Wireless Communications, 2017, 16, 7919-7935. | 6.1 | 12        |
| 57 | Massive MIMO performance with timing & frequency errors. , 2017, , .   |     | 1         |
| 58 | Estimation of sparse equivalent graph filters with limited observations. , 2017, , .   |     | 0         |
| 59 | Learning graph structure with stationary graph signals via first-order approximation. , 2017, , .  |     | 1         |
| 60 | Online compressive diagnosis of massive MIMO calibration state. Journal of Communications and Networks, 2017, 19, 666-677.                       | 1.8 | 1         |
| 61 | Online user association and computation offloading for Fog-enabled D2D network. , 2017, , .  |     | 9         |
| 62 | Pilot decontamination via Doppler PSD alignment. , 2016, , .   |     | 2         |
| 63 | Hierarchical visible light communication system. , 2016, , .   |     | 0         |
| 64 | Compressive massive MIMO calibration. , 2016, , .  |     | 1         |
| 65 | Flexible Pilot Contamination Mitigation With Doppler PSD Alignment. IEEE Signal Processing Letters, 2016, 23, 1449-1453.                         | 2.1 | 11        |
| 66 | Low-PAPR Multiplexing of Data and Pilots. , 2016, , .  |     | 0         |
| 67 | Pilot Decontamination via PDP Alignment. , 2016, , .   |     | 7         |
| 68 | Traffic-aware association in heterogeneous networks. , 2016, , .   |     | 1         |
| 69 | Multi-User Massive MIMO Performance with Calibration Errors. IEEE Transactions on Wireless Communications, 2016, , 1-1.                          | 6.1 | 22        |
| 70 | How to calibrate massive MIMO?. , 2015, , .  |     | 3         |
| 71 | How Accurate Calibration Is Needed in Massive MIMO?. , 2015, , .   |     | 7         |
| 72 | Robust Large Scale Calibration for Massive MIMO. , 2015, , .   |     | 7         |

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|----|--|----|-----------|
| 73 | Robust Large Scale Calibration for Massive MIMO. , 2014, , . |    | 0         |