# Junshan Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 177<br>papers | 8,360<br>citations | 87888<br>38<br>h-index | 54911<br>84<br>g-index |
| 177<br>all docs | 177<br>docs citations | 177<br>times ranked | 6618<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Edge Intelligence: Paving the Last Mile of Artificial Intelligence With Edge Computing. Proceedings of the IEEE, 2019, 107, 1738-1762. | 21.3 | 1,144 |
| 2 | Capacity Bounds and Power Allocation for Wireless Relay Channels. IEEE Transactions on Information Theory, 2005, 51, 2020-2040. | 2.4 | 921 |
| 3 | On the capacity of MIMO relay channels. IEEE Transactions on Information Theory, 2005, 51, 29-43. | 2.4 | 704 |
| 4 | Incentive Mechanism for Reliable Federated Learning: A Joint Optimization Approach to Combining Reputation and Contract Theory. IEEE Internet of Things Journal, 2019, 6, 10700-10714. | 8.7 | 520 |
| 5 | Toward optimal allocation of location dependent tasks in crowdsensing. , 2014, , . | | 213 |
| 6 | Exploiting Social Ties for Cooperative D2D Communications: A Mobile Social Networking Case. IEEE/ACM Transactions on Networking, 2015, 23, 1471-1484. | 3.8 | 210 |
| 7 | A Dependency Graph Approach for Fault Detection and Localization Towards Secure Smart Grid. IEEE Transactions on Smart Grid, 2011, 2, 342-351. | 9.0 | 175 |
| 8 | Optimal Allocation of Interconnecting Links in Cyber-Physical Systems: Interdependence, Cascading Failures, and Robustness. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1708-1720. | 5.6 | 169 |
| 9 | Virtual MIMO in Multi-Cell Distributed Antenna Systems: Coordinated Transmissions with Large-Scale CSIT. IEEE Journal on Selected Areas in Communications, 2013, 31, 2067-2081. | 14.0 | 144 |
| 10 | Content Popularity Prediction Towards Location-Aware Mobile Edge Caching. IEEE Transactions on Multimedia, 2019, 21, 915-929. | 7.2 | 142 |
| 11 | Support-Vector-Machine-Enhanced Markov Model for Short-Term Wind Power Forecast. IEEE Transactions on Sustainable Energy, 2015, 6, 791-799. | 8.8 | 137 |
| 12 | Output MAI distributions of linear MMSE multiuser receivers in DS-CDMA systems. IEEE Transactions on Information Theory, 2001, 47, 1128-1144. | 2.4 | 136 |
| 13 | Online dynamic security assessment with missing pmu measurements: A data mining approach. IEEE Transactions on Power Systems, 2013, 28, 1969-1977. | 6.5 | 136 |
| 14 | Distributed Opportunistic Scheduling for Ad Hoc Networks With Random Access: An Optimal Stopping Approach. IEEE Transactions on Information Theory, 2009, 55, 205-222. | 2.4 | 113 |
| 15 | Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations. IEEE Transactions on Mobile Computing, 2012, 11, 1399-1411. | 5.8 | 113 |
| 16 | Cost-Effective and Privacy-Preserving Energy Management for Smart Meters. IEEE Transactions on Smart Grid, 2015, 6, 486-495. | 9.0 | 112 |
| 17 | FedHome: Cloud-Edge Based Personalized Federated Learning for In-Home Health Monitoring. IEEE Transactions on Mobile Computing, 2022, 21, 2818-2832. | 5.8 | 112 |
| 18 | A Spatio-Temporal Analysis Approach for Short-Term Forecast of Wind Farm Generation. IEEE Transactions on Power Systems, 2014, 29, 1611-1622. | 6.5 | 105 |

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|---|---------|-----|-----------|
| 19 | On the Relation Between Identifiability, Differential Privacy, and Mutual-Information Privacy. IEEE Transactions on Information Theory, 2016, 62, 5018-5029. | 2.4 | 105 |
| 20 | Social trust and social reciprocity based cooperative D2D communications. , 2013, , . | | 96 |
| 21 | Delay Analysis for Cognitive Radio Networks with Random Access: A Fluid Queue View. , 2010, , . | | 95 |
| 22 | Distributed Algorithms to Compute Walrasian Equilibrium in Mobile Crowdsensing. IEEE Transactions on Industrial Electronics, 2017, 64, 4048-4057. | 7.9 | 94 |
| 23 | Social-Aware Video Multicast Based on Device-to-Device Communications. IEEE Transactions on Mobile Computing, 2016, 15, 1528-1539. | 5.8 | 86 |
| 24 | CoEdge: Cooperative DNN Inference With Adaptive Workload Partitioning Over Heterogeneous Edge Devices. IEEE/ACM Transactions on Networking, 2021, 29, 595-608. | 3.8 | 85 |
| 25 | Curve-Based Deployment for Barrier Coverage in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2014, 13, 724-735. | 9.2 | 75 |
| 26 | MIMO ad hoc networks: Medium access control, saturation throughput, and optimal hop distance. Journal of Communications and Networks, 2004, 6, 317-330. | 2.6 | 71 |
| 27 | Latency-Driven Cooperative Task Computing in Multi-user Fog-Radio Access Networks. , 2017, , . | | 69 |
| 28 | Risk-Aware Day-Ahead Scheduling and Real-time Dispatch for Electric Vehicle Charging. IEEE Transactions on Smart Grid, 2014, 5, 693-702. | 9.0 | 68 |
| 29 | An Exchange Market Approach to Mobile Crowdsensing: Pricing, Task Allocation, and Walrasian Equilibrium. IEEE Journal on Selected Areas in Communications, 2017, 35, 921-934. | 14.0 | 67 |
| 30 | Wind Power Dispatch Margin for Flexible Energy and Reserve Scheduling With Increased Wind Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 1543-1552. | 8.8 | 63 |
| 31 | A Cross-Layer Design Approach to Multicast in Wireless Networks. IEEE Transactions on Wireless Communications, 2007, 6, 1063-1071. | 9.2 | 61 |
| 32 | REAP: An Efficient Incentive Mechanism for Reconciling Aggregation Accuracy and Individual Privacy in Crowdsensing. IEEE Transactions on Information Forensics and Security, 2018, 13, 2995-3007. | 6.9 | 61 |
| 33 | A tensor-based framework for studying eigenvector multicentrality in multilayer networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15407-15413. | 7.1 | 61 |
| 34 | The Impact of Stochastic Noisy Feedback on Distributed Network Utility Maximization. IEEE Transactions on Information Theory, 2008, 54, 645-665. | 2.4 | 59 |
| 35 | POST: Parallel Offloading of Splittable Tasks in Heterogeneous Fog Networks. IEEE Internet of Things Journal, 2020, 7, 3170-3183. | 8.7 | 56 |
| 36 | Optimal Placement for Barrier Coverage in Bistatic Radar Sensor Networks. IEEE/ACM Transactions on Networking, 2016, 24, 259-271. | 3.8 | 49 |

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| 37 | A Characterization of Delay Performance of Cognitive Medium Access. IEEE Transactions on Wireless Communications, 2012, 11, 800-809. | 9.2 | 44 |
| 38 | A Collaborative Learning Framework via Federated Meta-Learning. , 2020, , . | | 41 |
| 39 | Opportunistic Multichannel Aloha: Distributed Multiaccess Control Scheme for OFDMA Wireless Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 848-855. | 6.3 | 40 |
| 40 | Exploiting Social Tie Structure for Cooperative Wireless Networking: A Social Group Utility Maximization Framework. IEEE/ACM Transactions on Networking, 2016, 24, 3593-3606. | 3.8 | 40 |
| 41 | Forecast-Based Anticipatory Frequency Control in Power Systems. IEEE Transactions on Power Systems, 2018, 33, 1004-1012. | 6.5 | 40 |
| 42 | Distributed Zero-Order Algorithms for Nonconvex Multiagent Optimization. IEEE Transactions on Control of Network Systems, 2021, 8, 269-281. | 3.7 | 40 |
| 43 | Optimal privacy-preserving energy management for smart meters. , 2014, , . | | 39 |
| 44 | Device-to-Device Communications for Energy Management: A Smart Grid Case. IEEE Journal on Selected Areas in Communications, 2016, 34, 190-201. | 14.0 | 39 |
| 45 | Reserve Policy Optimization for Scheduling Wind Energy and Reserve. IEEE Transactions on Power Systems, 2018, 33, 19-31. | 6.5 | 39 |
| 46 | Latency-Driven Fog Cooperation Approach in Fog Radio Access Networks. IEEE Transactions on Services Computing, 2019, 12, 698-711. | 4.6 | 37 |
| 47 | Deep Reinforcement Learning With Spatio-Temporal Traffic Forecasting for Data-Driven Base Station Sleep Control. IEEE/ACM Transactions on Networking, 2021, 29, 935-948. | 3.8 | 37 |
| 48 | Opportunistic Cooperative Networking: To Relay or Not To Relay?. IEEE Journal on Selected Areas in Communications, 2012, 30, 307-314. | 14.0 | 34 |
| 49 | Statistical Characterization of Wind Power Ramps Via Extreme Value Analysis. IEEE Transactions on Power Systems, 2014, 29, 3118-3119. | 6.5 | 32 |
| 50 | Learning-Based Demand Response for Privacy-Preserving Users. IEEE Transactions on Industrial Informatics, 2019, 15, 4988-4998. | 11.3 | 32 |
| 51 | Throughput of CDMA Data Networks With Multiuser Detection, ARQ, and Packet Combining. IEEE Transactions on Wireless Communications, 2004, 3, 1576-1589. | 9.2 | 31 |
| 52 | CDMA systems in fading channels: admissibility, network capacity, and power control. IEEE Transactions on Information Theory, 2000, 46, 962-981. | 2.4 | 30 |
| 53 | Multimicrogrid Load Balancing Through EV Charging Networks. IEEE Internet of Things Journal, 2022, 9, 5019-5026. | 8.7 | 30 |
| 54 | Privacy-Preserving Data Aggregation for Mobile Crowdsensing With Externality: An Auction Approach. IEEE/ACM Transactions on Networking, 2021, 29, 1046-1059. | 3.8 | 28 |

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| 55 | Multiple-Access Interference Processes Are Self-Similar in Multimedia CDMA Cellular Networks. IEEE Transactions on Information Theory, 2005, 51, 1024-1038. | 2.4 | 27 |
| 56 | Distributed CSMA Algorithms for Link Scheduling in Multihop MIMO Networks Under SINR Model. IEEE/ACM Transactions on Networking, 2013, 21, 746-759. | 3.8 | 27 |
| 57 | A Stochastic Primal-Dual Algorithm for Joint Flow Control and MAC Design in Multi-hop Wireless Networks. , 2006, , . | | 26 |
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| 59 | CSMA-Based Distributed Scheduling in Multi-hop MIMO Networks under SINR Model. , 2010, , . | | 26 |
| 60 | Exploiting Social Trust Assisted Reciprocity (STAR) Toward Utility-Optimal Socially-Aware Crowdsensing. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 195-208. | 2.8 | 26 |
| 61 | Distributed opportunistic scheduling for ad hoc communications with imperfect channel information. IEEE Transactions on Wireless Communications, 2008, 7, 5450-5460. | 9.2 | 25 |
| 62 | Barrier coverage in wireless sensor networks: From lined-based to curve-based deployment. , 2013, , . | | 25 |
| 63 | Delay-Energy Tradeoff in Multicast Scheduling for Green Cellular Systems. IEEE Journal on Selected Areas in Communications, 2016, 34, 1235-1249. | 14.0 | 25 |
| 64 | Data Center Demand Response With On-Site Renewable Generation: A Bargaining Approach. IEEE/ACM Transactions on Networking, 2018, 26, 2707-2720. | 3.8 | 25 |
| 65 | Large-system performance analysis of blind and group-blind multiuser receivers. IEEE Transactions on Information Theory, 2002, 48, 2507-2523. | 2.4 | 23 |
| 66 | Bursty data over CDMA: MAI self similarity, rate control and admission control. , 0, , . | | 22 |
| 67 | SoCast: Social ties based cooperative video multicast. , 2014, , . | | 22 |
| 68 | Personalized location privacy in mobile networks: A social group utility approach. , 2015, , . | | 22 |
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| 70 | A Virtual-Queue-Based Algorithm for Constrained Online Convex Optimization With Applications to Data Center Resource Allocation. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 703-716. | 10.8 | 21 |
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| 73 | Fault Detection and Localization in Smart Grid: A Probabilistic Dependence Graph Approach. , 2010, , . | | 19 |
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| 81 | Robust and Cost-Effective Design of Cyber-Physical Systems: An Optimal Middleware Deployment Approach. IEEE/ACM Transactions on Networking, 2016, 24, 1081-1094. | 3.8 | 15 |
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| 87 | Joint sensing task and subband allocation for large-scale spectrum profiling. , 2015, , . | | 13 |
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| 92 | Joint transmission expansion planning and energy storage placement in smart grid towards efficient integration of renewable energy. , 2014, , . | | 12 |
| 93 | Time dependent adaptive pricing for mobile internet access. , 2015, , . | | 12 |
| 94 | Socially Privacy-Preserving Data Collection for Crowdsensing. IEEE Transactions on Vehicular Technology, 2020, 69, 851-861. | 6.3 | 12 |
| 95 | Crowdsensing for Spectrum Discovery: A Waze-Inspired Design via Smartphone Sensing. IEEE/ACM Transactions on Networking, 2020, 28, 750-763. | 3.8 | 12 |
| 96 | Stochastic Modeling and Analysis of Public Electric Vehicle Fleet Charging Station Operations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9252-9265. | 8.0 | 11 |
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| 109 | Linear MMSE multiuser receivers: MAI conditional weak convergence and network capacity. IEEE Transactions on Information Theory, 2002, 48, 2114-2122. | 2.4 | 7 |
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| 111 | The Impact of Induced Spectrum Predictability Via Wireless Network Coding. IEEE Transactions on Vehicular Technology, 2012, 61, 758-769. | 6.3 | 7 |
| 112 | Social group utility maximization game with applications in mobile social networks. , 2013, , . | | 7 |
| 113 | Threshold-based transmissions for large relay networks powered by renewable energy. , 2013, , . | | 7 |
| 114 | Deep Transfer Learning Across Cities for Mobile Traffic Prediction. IEEE/ACM Transactions on Networking, 2022, 30, 1255-1267. | 3.8 | 7 |
| 115 | Adaptive sensor activity control in many-to-one sensor networks. IEEE Journal on Selected Areas in Communications, 2006, 24, 1525-1534. | 14.0 | 6 |
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| 119 | A Graphical Game Approach to Electrical Vehicle Charging Scheduling: Correlated Equilibrium and Latency Minimization. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 505-517. | 8.0 | 6 |
| 120 | Joint scheduling and interference cancellation in ad hoe networks. , 0, , . | | 5 |
| 121 | Opportunistic Multichannel Aloha for Clustered OFDM Wireless Networks. , 0, , . | | 5 |
| 122 | A sparsified vector autoregressive model for short-term wind farm power forecasting. , 2015, , . | | 5 |
| 123 | Social-Aware User Cooperation in Full-Duplex and Half-Duplex Multi-Antenna Systems. IEEE Transactions on Communications, 2018, 66, 3309-3321. | 7.8 | 5 |
| 124 | Multi-Party Privacy Conflict Management in Online Social Networks: A Network Game Perspective. IEEE/ACM Transactions on Networking, 2020, 28, 2685-2698. | 3.8 | 5 |
| 125 | Online Stochastic Optimization With Time-Varying Distributions. IEEE Transactions on Automatic Control, 2021, 66, 1840-1847. | 5.7 | 5 |
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| 127 | Communication-Efficient Distributed SGD With Compressed Sensing. , 2022, 6, 2054-2059. | | 5 |
| 128 | Bursty traffic over CDMA: predictive MAI temporal structure, rate control and admission control. Computer Networks, 2003, 42, 779-795. | 5.1 | 4 |
| 129 | A unscented particle filtering approach to estimating competing stations in IEEE 802.11 WLANs. , 2005, , . | | 4 |
| 130 | Opportunistic Spectrum Scheduling by Jointly Exploiting Channel Correlation and PU Traffic Memory. IEEE Journal on Selected Areas in Communications, 2013, 31, 394-405. | 14.0 | 4 |
| 131 | Impact of Delays on Constrained Online Convex Optimization. , 2019, , . | | 4 |
| 132 | Data-driven Distributionally Robust Optimization for Edge Intelligence. , 2020, , . | | 4 |
| 133 | Seasonal Self-evolving Neural Networks Based Short-term Wind Farm Generation Forecast. , 2020, , . | | 4 |
| 134 | Rate adaptation for bursty data transmission in CDMA networks. , 2001, , . | | 3 |
| 135 | Channel-Aware Weighted Proportional Fair Medium Access Control in Wireless LANs with MIMO links. , 0, , . | | 3 |
| 136 | When compressive sampling meets multicast: Outage analysis and subblock network coding. , 2011, , . | | 3 |
| 137 | A data mining framework for online dynamic security assessment: Decision trees, boosting, and complexity analysis. , 2012, , . | | 3 |
| 138 | Spatio-temporal analysis for smart grids with wind generation integration. , 2013, , . | | 3 |
| 139 | Privacy-Preserving Database Assisted Spectrum Access: A Socially-Aware Distributed Learning Approach. , 2015, , . | | 3 |
| 140 | Privacy-Aware Data Trading. IEEE Transactions on Information Forensics and Security, 2021, 16, 3916-3927. | 6.9 | 3 |
| 141 | Arbitrary source models and Bayesian codebooks in rate-distortion theory. , 0, , . | | 2 |
| 142 | Fast Real-Time Hurst Parameter Estimation via Adaptive Wavelet Lifting. IEEE Transactions on Vehicular Technology, 2004, 53, 1266-1273. | 6.3 | 2 |
| 143 | Rate optimization for MAC layer multicast in wireless networks. , 2005, , . | | 2 |
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| 145 | Coalition-aided data transport in wireless sensor networks: data compression, cooperative transmission and optimal coalition size. , 0, , . | | 2 |
| 146 | A note on convergence rate of constrained capacity estimation algorithms over ISI channels. , 2008, , . | | 2 |
| 147 | Stochastic location-aided routing for mobile ad-hoc networks. , 2010, , . | | 2 |
| 148 | Network coding for two-unicast with rate (1,2). , 2012, , . | | 2 |
| 149 | On the Time-Varying Distributions of Online Stochastic Optimization. , 2019, , . | | 2 |
| 150 | Systematic Topology Design for Large-Scale Networks: A Unified Framework. , 2020, , . | | 2 |
| 151 | Online Content Editor Team Joins Transactions on Wireless Communications. IEEE Transactions on Wireless Communications, 2020, 19, 3-3. | 9.2 | 2 |
| 152 | Size-aided opportunistic scheduling in wireless networks. , 0, , . | | 1 |
| 153 | Two novel schemes for opportunistic multi-access. , 0, , . | | 1 |
| 154 | Ergodic capacity and power allocation in wireless relay channels [ad hoc networks]. , 0, , . | | 1 |
| 155 | An information theoretic study of time-division wireless relay channels. , 0, , . | | 1 |
| 156 | Towards understanding the dynamics of complex networks: An entropic and Markovian view. , 2010, , . | | 1 |
| 157 | Layered Coding for Interference Channels With Partial Transmitter Side Information. IEEE Transactions on Information Theory, 2011, 57, 2765-2780. | 2.4 | 1 |
| 158 | Traffic shaping impact of network coding on spectrum predictability and jamming attacks. , 2011, , . | | 1 |
| 159 | Exploiting channel correlation and PU traffic memory for opportunistic spectrum scheduling. , 2012, , . | | 1 |
| 160 | Early Anomaly Detection in an Interconnected Power Grid and Communication Network: Exploiting Interdependent Structure of Failures. , 2014, , . | | 1 |
| 161 | Trust Degree Based Beamforming for Multi-Antenna Cooperative Communication Systems. , 2017, , . | | 1 |
| 162 | Data Collection from Privacy-Aware Users in the Presence of Social Learning. , 2019, , . | | 1 |

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| 163 | Impact of Social Learning on Privacy-Preserving Data Collection. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 268-282. | 2.5 | 1 |
| 164 | Distributionally Robust Edge Learning with Dirichlet Process Prior. , 2020, , . | | 1 |
| 165 | A unified study on the MAI Gaussianity in large CDMA systems with MMSE receivers. , 0, , . | | 0 |
| 166 | Large-system analysis of blind and group-blind multiuser receivers. , 0, , . | | 0 |
| 167 | Correction to "CDMA systems in fading channels: admissibility, network capacity, and power control". IEEE Transactions on Information Theory, 2002, 48, 1000-1000. | 2.4 | 0 |
| 168 | Dynamic activity management in many-to-one sensor networks. , 2005, , . | | 0 |
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| 170 | Channel-Aware Distributed Scheduling For Ad-Hoc Communications With Capture. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , . | 0.0 | 0 |
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| 175 | System Design and Testbed Implementation of Adaptive Coding Optimization in Lossy Networks. , 2014, , . | | 0 |
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