

# Lingjie Duan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2498860/publications.pdf>

Version: 2024-02-01

111  
papers

3,653  
citations

159585

30  
h-index

175258

52  
g-index

112  
all docs

112  
docs citations

112  
times ranked

2931  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Operator-as-a-Consumer: A Novel Energy Storage Sharing Approach Under Demand Charge. IEEE Transactions on Cybernetics, 2023, 53, 941-953.                            | 9.5 | 4         |
| 2  | Double-IRS Aided MIMO Communication Under LoS Channels: Capacity Maximization and Scaling. IEEE Transactions on Communications, 2022, 70, 2820-2837.                 | 7.8 | 42        |
| 3  | To Help or Disturb: Introduction of Crowdsourced WiFi to 5G Networks. IEEE Transactions on Mobile Computing, 2022, , 1-1.  | 5.8 | 1         |
| 4  | Dynamic Pricing and Mean Field Analysis for Controlling Age of Information. IEEE/ACM Transactions on Networking, 2022, 30, 2588-2600.                                | 3.8 | 4         |
| 5  | Protecting Location Privacy by Multiquery: A Dynamic Bayesian Game Theoretic Approach. IEEE Transactions on Information Forensics and Security, 2022, 17, 2569-2584. | 6.9 | 0         |
| 6  | Economic Analysis of Unmanned Aerial Vehicle (UAV) Provided Mobile Services. IEEE Transactions on Mobile Computing, 2021, 20, 1804-1816.                             | 5.8 | 18        |
| 7  | Strategic Learning Approach for Deploying UAV-Provided Wireless Services. IEEE Transactions on Mobile Computing, 2021, 20, 1230-1241.                                | 5.8 | 6         |
| 8  | Chase or Wait: Dynamic UAV Deployment to Learn and Catch Time-Varying User Activities. IEEE Transactions on Mobile Computing, 2021, , 1-1.                           | 5.8 | 23        |
| 9  | Economic Controls for Smart Water Distribution Networks Undergoing Supply Failures. IEEE Transactions on Network Science and Engineering, 2021, 8, 555-574.          | 6.4 | 1         |
| 10 | Towards Reliable UAV Swarm Communication in D2D-Enhanced Cellular Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1567-1581.                       | 9.2 | 19        |
| 11 | UAV-Aided Information and Energy Transmissions for Cognitive and Sustainable 5G Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1668-1683.         | 9.2 | 27        |
| 12 | Learning Large Electrical Loads via Flexible Contracts With Commitment. IEEE Transactions on Network Science and Engineering, 2021, 8, 1925-1940.                    | 6.4 | 2         |
| 13 | Incentive Mechanism Design for Distributed Coded Machine Learning. , 2021, , .   |     | 8         |
| 14 | Pricing-Driven Service Caching and Task Offloading in Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2021, 20, 4495-4512.                      | 9.2 | 58        |
| 15 | Multi-UAV Cooperative Trajectory for Servicing Dynamic Demands and Charging Battery. IEEE Transactions on Mobile Computing, 2021, , 1-1.                             | 5.8 | 9         |
| 16 | Average-Case Analysis of Greedy Matching for D2D Resource Sharing. , 2021, , .   |     | 1         |
| 17 | Personalized Pricing through User Profiling in Social Networks. , 2021, , .  |     | 1         |
| 18 | Gaining Location Privacy from Service Flexibility: A Bayesian Game Theoretic Approach. , 2021, , .   |     | 1         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Economic Analysis of Rollover and Shared Data Plans. IEEE Transactions on Mobile Computing, 2020, 19, 2088-2100.   | 5.8  | 3         |
| 20 | Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. IEEE Transactions on Mobile Computing, 2020, 19, 2903-2915. | 5.8  | 114       |
| 21 | Energy-Saving Deployment Algorithms of UAV Swarm for Sustainable Wireless Coverage. IEEE Transactions on Vehicular Technology, 2020, 69, 10320-10335.                    | 6.3  | 40        |
| 22 | Optimal Pricing for Peer-to-Peer Sharing With Network Externalities. IEEE/ACM Transactions on Networking, 2020, , 1-14.  | 3.8  | 3         |
| 23 | Cooperative Double-IRS Aided Communication: Beamforming Design and Power Scaling. IEEE Wireless Communications Letters, 2020, 9, 1206-1210.                              | 5.0  | 127       |
| 24 | Crowdcaching: Incentivizing D2D-Enabled Caching via Coalitional Game for IoT. IEEE Internet of Things Journal, 2020, 7, 5599-5612.                                       | 8.7  | 17        |
| 25 | Regulating Competition in Age of Information Under Network Externalities. IEEE Journal on Selected Areas in Communications, 2020, 38, 697-710.                           | 14.0 | 13        |
| 26 | Beyond Secrecy Rate in MISO Wiretap Channels: An Information Jamming Approach. IEEE Transactions on Communications, 2020, 68, 3057-3067.                                 | 7.8  | 4         |
| 27 | Jamming-Assisted Proactive Eavesdropping Over Two Suspicious Communication Links. IEEE Transactions on Wireless Communications, 2020, 19, 4817-4830.                     | 9.2  | 31        |
| 28 | Cooperative Path Planning of a UAV Swarm to Meet Temporal-Spatial User Demands. , 2020, , .  |      | 3         |
| 29 | Market Entry. , 2020, , 766-771.   |      | 0         |
| 30 | Distributed double auctions for large-scale device-to-device resource trading. , 2020, , .   |      | 6         |
| 31 | Fast Deployment of UAV Networks for Optimal Wireless Coverage. IEEE Transactions on Mobile Computing, 2019, 18, 588-601.   | 5.8  | 136       |
| 32 | Mobile Social Services with Network Externality: From Separate Pricing to Bundled Pricing. IEEE Transactions on Network Science and Engineering, 2019, 6, 379-390.       | 6.4  | 10        |
| 33 | Adaptive Deployment for UAV-Aided Communication Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4531-4543.   | 9.2  | 144       |
| 34 | Proactive Eavesdropping of Two Suspicious Communication Links via Jamming. , 2019, , .   |      | 8         |
| 35 | Introduction to the Special Section From IEEE DySPAN 2018. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 608-610.                               | 7.9  | 0         |
| 36 | Dynamic Pricing for Controlling Age of Information. , 2019, , .  |      | 17        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | Dynamic Pricing and Capacity Allocation of UAV-provided Mobile Services. , 2019, , .   |      | 25        |
| 38 | Recommending Paths: Follow or Not Follow?. , 2019, , .   |      | 11        |
| 39 | Jamming-Assisted Eavesdropping Over Parallel Fading Channels. IEEE Transactions on Information Forensics and Security, 2019, 14, 2486-2499.                              | 6.9  | 47        |
| 40 | Multiple Access MmWave Design for UAV-Aided 5G Communications. IEEE Wireless Communications, 2019, 26, 64-71.  | 9.0  | 67        |
| 41 | Optimal Patrolling Trajectory Design for Multi-UAV Wireless Servicing and Battery Swapping. , 2019, , .  |      | 4         |
| 42 | Data-Centric Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2018, 17, 1275-1288.  | 5.8  | 21        |
| 43 | Financial Analysis of Network Upgrade. IEEE Transactions on Vehicular Technology, 2018, 67, 5496-5499.   | 6.3  | 2         |
| 44 | Transmit Optimization for Symbol-Level Spoofing. IEEE Transactions on Wireless Communications, 2018, 17, 41-55.  | 9.2  | 19        |
| 45 | Wireless Power Transfer and Data Collection in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2686-2697.                                 | 6.3  | 71        |
| 46 | Scalable Mobile Crowdsensing via Peer-to-Peer Data Sharing. IEEE Transactions on Mobile Computing, 2018, 17, 898-912.  | 5.8  | 57        |
| 47 | Traffic-Aware Adaptive Deployment for UAV-Aided Communication Networks. , 2018, , .  |      | 12        |
| 48 | Going beyond Secrecy Rate via Information Jamming. , 2018, , .   |      | 7         |
| 49 | Sum-Rate Maximization Methods for Wirelessly Powered Communication Networks in Interference Channels. IEEE Transactions on Wireless Communications, 2018, 17, 6464-6474. | 9.2  | 21        |
| 50 | Optimal Pricing of User-Initiated Data-Plan Sharing in a Roaming Market. IEEE Transactions on Wireless Communications, 2018, 17, 5929-5944.                              | 9.2  | 12        |
| 51 | UAV placement games for optimal wireless service provision. , 2018, , .  |      | 12        |
| 52 | Market Entry. , 2018, , 1-6.   |      | 1         |
| 53 | Fundamental Rate Limits of Physical Layer Spoofing. IEEE Wireless Communications Letters, 2017, 6, 154-157.  | 5.0  | 18        |
| 54 | Dynamic Routing for Social Information Sharing. IEEE Journal on Selected Areas in Communications, 2017, 35, 571-585.   | 14.0 | 28        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | When Social Network Effect Meets Congestion Effect in Wireless Networks: Data Usage Equilibrium and Optimal Pricing. IEEE Journal on Selected Areas in Communications, 2017, 35, 449-462. | 14.0 | 77        |
| 56 | To Motivate Social Grouping in Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 4880-4893.  | 9.2  | 8         |
| 57 | Proactive Eavesdropping via Cognitive Jamming in Fading Channels. IEEE Transactions on Wireless Communications, 2017, 16, 2790-2806.  | 9.2  | 123       |
| 58 | WAIPO: A Fusion-Based Collaborative Indoor Localization System on Smartphones. IEEE/ACM Transactions on Networking, 2017, 25, 2267-2280.  | 3.8  | 66        |
| 59 | Sustainable Green Networking and Computing in 5G Systems. IEEE Wireless Communications, 2017, 24, 12-13.  | 9.0  | 4         |
| 60 | Age of information: Design and analysis of optimal scheduling algorithms. , 2017, , .   |      | 165       |
| 61 | Wireless surveillance of two-hop communications : (Invited paper). , 2017, , .  |      | 7         |
| 62 | Pricing for Opportunistic Data Sharing via Personal Hotspot. , 2017, , .  |      | 1         |
| 63 | Proactive Eavesdropping via Jamming over HARQ-Based Communications. , 2017, , .   |      | 18        |
| 64 | SWPT: A Joint-Scheduling Model for Wireless Powered Sensor Networks. , 2017, , .  |      | 6         |
| 65 | Optimization of Emergency UAV Deployment for Providing Wireless Coverage. , 2017, , .   |      | 21        |
| 66 | Economics and Optimizations in Wireless Communication Networks. Mobile Information Systems, 2016, 2016, 1-2.  | 0.6  | 1         |
| 67 | Capacity Allocation and Pricing Strategies for New Wireless Services. Production and Operations Management, 2016, 25, 866-882.  | 3.8  | 11        |
| 68 | Exploiting Data Reuse in Mobile Crowdsensing. , 2016, , .   |      | 9         |
| 69 | Harnessing Self-Interference in Full-Duplex Relaying: An Analog Filter-and-Forward Approach. , 2016, , .  |      | 5         |
| 70 | Proactive eavesdropping via cognitive jamming in fading channels. , 2016, , .   |      | 14        |
| 71 | Adaptively Directional Wireless Power Transfer for Large-Scale Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1785-1800.                                    | 14.0 | 83        |
| 72 | On the competition of CDN companies: Impact of new telco-CDNs' federation. , 2016, , .  |      | 9         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | User-Initiated Data Plan Trading via a Personal Hotspot Market. IEEE Transactions on Wireless Communications, 2016, 15, 7885-7898.                          | 9.2  | 21        |
| 74 | Cooperative Local Caching under Heterogeneous File Preferences. IEEE Transactions on Communications, 2016, , 1-1.   | 7.8  | 49        |
| 75 | Cooperative local caching and file sharing under heterogeneous file preferences. , 2016, , .  |      | 16        |
| 76 | Dynamic Base Station Operation in Large-Scale Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3127-3141.               | 14.0 | 44        |
| 77 | Transmit Optimization for Symbol-Level Spoofing with BPSK Signaling. , 2016, , .  |      | 6         |
| 78 | Optimal Pricing and Admission Control for Heterogeneous Secondary Users. IEEE Transactions on Wireless Communications, 2016, 15, 5218-5230.                 | 9.2  | 14        |
| 79 | Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2016, 5, 80-83.              | 5.0  | 151       |
| 80 | Energy Group Buying With Loading Sharing for Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 786-799.                  | 14.0 | 45        |
| 81 | Optimal Pricing and Load Sharing for Energy Saving With Cooperative Communications. IEEE Transactions on Wireless Communications, 2016, 15, 951-964.        | 9.2  | 35        |
| 82 | Optimal Scheduling and Beamforming in Relay Networks With Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 1226-1238. | 9.2  | 31        |
| 83 | Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. IEEE Journal on Selected Areas in Communications, 2016, 34, 1103-1115.                | 14.0 | 126       |
| 84 | Adaptively Directional Wireless Power Transfer for Large Sensor Networks. , 2015, , .   |      | 1         |
| 85 | Economics of Peer-to-Peer Mobile Crowdsensing. , 2015, , .  |      | 12        |
| 86 | Balancing Income and User Utility in Spectrum Allocation. IEEE Transactions on Mobile Computing, 2015, 14, 2460-2473.                                       | 5.8  | 20        |
| 87 | Multiantenna Wireless Powered Communication With Cochannel Energy and Information Transfer. IEEE Communications Letters, 2015, 19, 2266-2269.               | 4.1  | 36        |
| 88 | Spatial Throughput Maximization of Wireless Powered Communication Networks. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.                  | 14.0 | 57        |
| 89 | Distributed Power Control With Robust Protection for PUs in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3247-3258.    | 9.2  | 24        |
| 90 | Pricing for Local and Global Wi-Fi Markets. IEEE Transactions on Mobile Computing, 2015, 14, 1056-1070.   | 5.8  | 24        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Economic Analysis of 4G Upgrade Timing. IEEE Transactions on Mobile Computing, 2015, 14, 975-989.   | 5.8 | 20        |
| 92  | Power-saving heterogeneous networks through optimal small-cell scheduling. , 2014, , .  |     | 1         |
| 93  | On Spatial Capacity of Wireless Ad Hoc Networks with Threshold Based Scheduling. IEEE Transactions on Wireless Communications, 2014, 13, 6915-6927. | 9.2 | 7         |
| 94  | Optimal energy and spectrum sharing for cooperative cellular systems. , 2014, , .   |     | 3         |
| 95  | Joint spectrum pricing and admission control for heterogeneous secondary users. , 2014, , .   |     | 5         |
| 96  | Secure cooperative spectrum sensing and access against intelligent malicious behaviors. , 2014, , .   |     | 25        |
| 97  | Joint Energy and Spectrum Cooperation for Cellular Communication Systems. IEEE Transactions on Communications, 2014, 62, 3678-3691.                 | 7.8 | 73        |
| 98  | Motivating Smartphone Collaboration in Data Acquisition and Distributed Computing. IEEE Transactions on Mobile Computing, 2014, 13, 2320-2333.      | 5.8 | 94        |
| 99  | Economics of Peer-to-Peer Mobile Crowdsensing. , 2014, , .  |     | 0         |
| 100 | Adaptively Directional Wireless Power Transfer for Large Sensor Networks. , 2014, , .   |     | 0         |
| 101 | Economic analysis of 4G network upgrade. , 2013, , .  |     | 19        |
| 102 | Economics of Femtocell Service Provision. IEEE Transactions on Mobile Computing, 2013, 12, 2261-2273.   | 5.8 | 101       |
| 103 | Dynamic contract to regulate energy management in microgrids. , 2013, , .   |     | 6         |
| 104 | Balance of revenue and social welfare in FCC's spectrum allocation. , 2013, , .   |     | 5         |
| 105 | Incentive mechanisms for smartphone collaboration in data acquisition and distributed computing. , 2012, , .  |     | 199       |
| 106 | Duopoly Competition in Dynamic Spectrum Leasing and Pricing. IEEE Transactions on Mobile Computing, 2012, 11, 1706-1719.                            | 5.8 | 93        |
| 107 | Investment and Pricing with Spectrum Uncertainty: A Cognitive Operator's Perspective. IEEE Transactions on Mobile Computing, 2011, 10, 1590-1604.   | 5.8 | 118       |
| 108 | Contract-based cooperative spectrum sharing. , 2011, , .  |     | 82        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Cognitive Mobile Virtual Network Operator: Investment and Pricing with Supply Uncertainty. , 2010, , .                      |     | 58        |
| 110 | Competition with Dynamic Spectrum Leasing. , 2010, , .  |     | 50        |
| 111 | Two-facility Location Games with Minimum Distance Requirement. Journal of Artificial Intelligence Research, 0, 70, 719-756. | 7.0 | 17        |