

Lang Tong

List of Publications by Year in descending order

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212
papers

5,467
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215
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215
times ranked

3605
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Opportunistic Spectrum Access via Periodic Channel Sensing. IEEE Transactions on Signal Processing, 2008, 56, 785-796. | 3.2 | 306 |
| 2 | Malicious Data Attacks on Smart Grid State Estimation: Attack Strategies and Countermeasures. , 2010, , . | | 248 |
| 3 | On Topology Attack of a Smart Grid: Undetectable Attacks and Countermeasures. IEEE Journal on Selected Areas in Communications, 2013, 31, 1294-1305. | 9.7 | 233 |
| 4 | Sensor networks with mobile agents. , 0, , . | | 206 |
| 5 | Cognitive Medium Access: Constraining Interference Based on Experimental Models. IEEE Journal on Selected Areas in Communications, 2008, 26, 95-105. | 9.7 | 200 |
| 6 | Optimal Insertion of Pilot Symbols for Transmissions Over Time-Varying Flat Fading Channels. IEEE Transactions on Signal Processing, 2004, 52, 1403-1418. | 3.2 | 178 |
| 7 | Decentralized cognitive mac for dynamic spectrum access. , 0, , . | | 170 |
| 8 | Optimal design and placement of pilot symbols for channel estimation. IEEE Transactions on Signal Processing, 2002, 50, 3055-3069. | 3.2 | 158 |
| 9 | A Measurement-Based Model for Dynamic Spectrum Access in WLAN Channels. , 2006, , . | | 156 |
| 10 | Subspace Methods for Data Attack on State Estimation: A Data Driven Approach. IEEE Transactions on Signal Processing, 2015, 63, 1102-1114. | 3.2 | 155 |
| 11 | Distributed Detection in the Presence of Byzantine Attacks. IEEE Transactions on Signal Processing, 2009, 57, 16-29. | 3.2 | 148 |
| 12 | Modeling and Stochastic Control for Home Energy Management. IEEE Transactions on Smart Grid, 2013, 4, 2244-2255. | 6.2 | 143 |
| 13 | A cross-layer perspective in an uncharted path - Signal processing in random access. IEEE Signal Processing Magazine, 2004, 21, 29-39. | 4.6 | 111 |
| 14 | Limiting false data attacks on power system state estimation. , 2010, , . | | 110 |
| 15 | Impact of Data Quality on Real-Time Locational Marginal Price. IEEE Transactions on Power Systems, 2014, 29, 627-636. | 4.6 | 102 |
| 16 | Asymptotic Detection Performance of Type-Based Multiple Access Over Multiaccess Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 1081-1092. | 3.2 | 79 |
| 17 | Joint Frequency and Phasor Estimation Under the KCL Constraint. IEEE Signal Processing Letters, 2013, 20, 575-578. | 2.1 | 72 |
| 18 | Detecting Encrypted Stepping-Stone Connections. IEEE Transactions on Signal Processing, 2007, 55, 1612-1623. | 3.2 | 63 |

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| 19 | Anonymous Networking Amidst Eavesdroppers. IEEE Transactions on Information Theory, 2008, 54, 2770-2784. | 1.5 | 63 |
| 20 | Optimal Cognitive Access of Markovian Channels under Tight Collision Constraints. IEEE Journal on Selected Areas in Communications, 2011, 29, 746-756. | 9.7 | 61 |
| 21 | Online Data Integrity Attacks Against Real-Time Electrical Market in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 313-322. | 6.2 | 61 |
| 22 | Type-Based Random Access for Distributed Detection Over Multiaccess Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 5032-5043. | 3.2 | 59 |
| 23 | Malicious data attack on real-time electricity market. , 2011, , . | | 59 |
| 24 | Coordinated Multi-Area Economic Dispatch via Critical Region Projection. IEEE Transactions on Power Systems, 2017, 32, 3736-3746. | 4.6 | 59 |
| 25 | iEMS for large scale charging of electric vehicles: Architecture and optimal online scheduling. , 2012, , . | | 58 |
| 26 | Dynamic Scheduling for Charging Electric Vehicles: A Priority Rule. IEEE Transactions on Automatic Control, 2016, 61, 4094-4099. | 3.6 | 57 |
| 27 | Sensor Networks With Mobile Access: Energy and Capacity Considerations. IEEE Transactions on Communications, 2006, 54, 2033-2044. | 4.9 | 48 |
| 28 | Impacts of Malicious Data on Real-Time Price of Electricity Market Operations. , 2012, , . | | 48 |
| 29 | Optimal Channel-Aware ALOHA Protocol for Random Access in WLANs With Multipacket Reception and Decentralized Channel State Information. IEEE Transactions on Signal Processing, 2008, 56, 2575-2588. | 3.2 | 45 |
| 30 | Quantization for Maximin ARE in Distributed Estimation. IEEE Transactions on Signal Processing, 2007, 55, 3596-3605. | 3.2 | 44 |
| 31 | A Characterization of Delay Performance of Cognitive Medium Access. IEEE Transactions on Wireless Communications, 2012, 11, 800-809. | 6.1 | 44 |
| 32 | Renewables and Storage in Distribution Systems: Centralized vs. Decentralized Integration. IEEE Journal on Selected Areas in Communications, 2016, 34, 665-674. | 9.7 | 44 |
| 33 | Detection of Gaussâ€“Markov Random Fields With Nearest-Neighbor Dependency. IEEE Transactions on Information Theory, 2009, 55, 816-827. | 1.5 | 43 |
| 34 | Probabilistic Forecasting of Real-Time LMP and Network Congestion. IEEE Transactions on Power Systems, 2016, , 1-1. | 4.6 | 43 |
| 35 | A Large-Deviation Analysis of the Maximum-Likelihood Learning of Markov Tree Structures. IEEE Transactions on Information Theory, 2011, 57, 1714-1735. | 1.5 | 40 |
| 36 | On phasor measurement unit placement against state and topology attacks. , 2013, , . | | 38 |

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| 37 | Algorithmic Bidding for Virtual Trading in Electricity Markets. IEEE Transactions on Power Systems, 2019, 34, 535-543. | 4.6 | 37 |
| 38 | Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. IEEE Transactions on Power Systems, 2017, 32, 442-453. | 4.6 | 36 |
| 39 | PMU-Based Detection of Imbalance in Three-Phase Power Systems. IEEE Transactions on Power Systems, 2015, 30, 1966-1976. | 4.6 | 35 |
| 40 | Blind decorrelating rake receivers for long-code WCDMA. IEEE Transactions on Signal Processing, 2003, 51, 1642-1655. | 3.2 | 34 |
| 41 | Queuing Analysis in Multichannel Cognitive Spectrum Access: A Large Deviation Approach. , 2010, , . | | 34 |
| 42 | Minimal-Energy Driving Strategy for High-Speed Electric Train With Hybrid System Model. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1642-1653. | 4.7 | 34 |
| 43 | Joint channel and symbol estimation by oblique projections. IEEE Transactions on Signal Processing, 2001, 49, 3074-3083. | 3.2 | 33 |
| 44 | Detection of Information Flows. IEEE Transactions on Information Theory, 2008, 54, 4925-4945. | 1.5 | 33 |
| 45 | Semi-blind collision resolution in random access wireless ad hoc networks. IEEE Transactions on Signal Processing, 2000, 48, 2910-2920. | 3.2 | 32 |
| 46 | Cognitive Medium Access: A Protocol for Enhancing Coexistence in WLAN Bands. , 2007, , . | | 30 |
| 47 | Multi-scale stochastic optimization for Home Energy Management. , 2011, , . | | 30 |
| 48 | Energy-Aware Adaptive Routing for Large-Scale Ad Hoc Networks: Protocol and Performance Analysis. IEEE Transactions on Mobile Computing, 2007, 6, 1048-1059. | 3.9 | 29 |
| 49 | A Likelihood-Based Multiple Access for Estimation in Sensor Networks. IEEE Transactions on Signal Processing, 2007, 55, 5155-5166. | 3.2 | 29 |
| 50 | Betting on Gilbert-Elliot channels. IEEE Transactions on Wireless Communications, 2010, 9, 723-733. | 6.1 | 28 |
| 51 | Distributed Demand and Response Algorithm for Optimizing Social-Welfare in Smart Grid. , 2012, , . | | 28 |
| 52 | Fast Probabilistic Hosting Capacity Analysis for Active Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 2000-2012. | 6.2 | 27 |
| 53 | Deadline Scheduling as Restless Bandits. IEEE Transactions on Automatic Control, 2018, 63, 2343-2358. | 3.6 | 26 |
| 54 | Voltage Instability Prediction Using a Deep Recurrent Neural Network. IEEE Transactions on Power Systems, 2021, 36, 17-27. | 4.6 | 26 |

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| 55 | Optimal pilot placement for channel tracking in OFDM. , 0, , . | | 25 |
| 56 | Opportunistic aloha and cross layer design for sensor networks. , 0, , . | | 25 |
| 57 | Anonymous Networking with Minimum Latency in Multihop Networks. Sp'97, 2008, , . | 0.0 | 24 |
| 58 | Interference-aware OFDMA resource allocation: A predictive approach. , 2008, , . | | 24 |
| 59 | On Robust Tie-Line Scheduling in Multi-Area Power Systems. IEEE Transactions on Power Systems, 2018, 33, 4144-4154. | 4.6 | 24 |
| 60 | Pricing Multi-Interval Dispatch Under Uncertainty Part I: Dispatch-Following Incentives. IEEE Transactions on Power Systems, 2021, 36, 3865-3877. | 4.6 | 24 |
| 61 | Optimal pricing for residential demand response: A stochastic optimization approach. , 2012, , . | | 23 |
| 62 | On the operation and value of storage in consumer demand response. , 2014, , . | | 23 |
| 63 | State and Topology Estimation for Unobservable Distribution Systems Using Deep Neural Networks. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14. | 2.4 | 23 |
| 64 | Receiver controlled medium access in multihop ad hoc networks with multipacket reception. , 0, , . | | 22 |
| 65 | Polytope Codes Against Adversaries in Networks. IEEE Transactions on Information Theory, 2014, 60, 3308-3344. | 1.5 | 22 |
| 66 | Asymptotically Efficient Multichannel Estimation for Opportunistic Spectrum Access. IEEE Transactions on Signal Processing, 2012, 60, 5347-5360. | 3.2 | 21 |
| 67 | Distributed opportunistic transmission for wireless sensor networks. , 0, , . | | 20 |
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| 73 | Maximum Throughput Region of Multiuser Cognitive Access of Continuous Time Markovian Channels. IEEE Journal on Selected Areas in Communications, 2011, 29, 1959-1969. | 9.7 | 19 |
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| 76 | Energy-efficient information retrieval for correlated source reconstruction in sensor networks. IEEE Transactions on Wireless Communications, 2007, 6, 157-165. | 6.1 | 17 |
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| 78 | Distributed Detection of Multi-Hop Information Flows With Fusion Capacity Constraints. IEEE Transactions on Signal Processing, 2010, 58, 3373-3383. | 3.2 | 16 |
| 79 | A Game-Theoretic Approach to Anonymous Networking. IEEE/ACM Transactions on Networking, 2012, 20, 892-905. | 2.6 | 16 |
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| 85 | Good-Turing estimation of the number of operating sensors: a large deviations analysis. , 0, , . | | 13 |
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| 89 | Topology identification in smart grid with limited measurements via convex optimization. , 2014, , . | | 12 |
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| 91 | Stochastic Interchange Scheduling in the Real-Time Electricity Market. IEEE Transactions on Power Systems, 2017, 32, 2017-2027. | 4.6 | 11 |
| 92 | On the Dynamics of Distributed Energy Adoption: Equilibrium, Stability, and Limiting Capacity. IEEE Transactions on Automatic Control, 2020, 65, 102-114. | 3.6 | 11 |
| 93 | Optimal Eco-Driving Control of Autonomous and Electric Trucks in Adaptation to Highway Topography: Energy Minimization and Battery Life Extension. IEEE Transactions on Transportation Electrification, 2022, 8, 2149-2163. | 5.3 | 11 |
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| 96 | On the value of storage at consumer locations. , 2014, , . | | 10 |
| 97 | Joint frequency and phasor estimation in unbalanced three-phase power systems. , 2014, , . | | 10 |
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| 100 | Distributed Learning in Wireless Sensor Networks. , 0, , 185-214. | | 9 |
| 101 | Neyman-Pearson detection of Gauss-Markov signals in noise: closed-form error exponent and properties. , 2005, , . | | 8 |
| 102 | A Large Deviation Analysis of Detection Over Multi-Access Channels with Random Number of Sensors. , 0, , . | | 8 |
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| 104 | Integrated Mobile and Static Sensing for Target Tracking. , 2007, , . | | 8 |
| 105 | On the Error Exponent and the Use of LDPC Codes for Cooperative Sensor Networks With Misinformed Nodes. IEEE Transactions on Information Theory, 2007, 53, 3265-3274. | 1.5 | 8 |
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| 109 | Generalized Coordinated Transaction Scheduling: A Market Approach to Seamless Interfaces. IEEE Transactions on Power Systems, 2018, 33, 4683-4693. | 4.6 | 8 |
| 110 | On the Efficiency of Connection Charges—Part I: A Stochastic Framework. IEEE Transactions on Power Systems, 2018, 33, 3822-3833. | 4.6 | 8 |
| 111 | Adaptive Subband Compression for Streaming of Continuous Point-on-Wave and PMU Data. IEEE Transactions on Power Systems, 2021, 36, 5612-5621. | 4.6 | 8 |
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| 115 | A Cross-Layer Approach to Cognitive MAC for Spectrum Agility. , 0, , . | | 7 |
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| 118 | Multi-channel opportunistic spectrum access in unslotted primary systems with unknown models. , 2011, , . | | 7 |
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| 120 | Pricing Multi-period Dispatch Under Uncertainty. , 2018, , . | | 7 |
| 121 | A Scenario-Oriented Approach to Energy-Reserve Joint Procurement and Pricing. IEEE Transactions on Power Systems, 2023, 38, 411-426. | 4.6 | 7 |
| 122 | On Net Energy Metering X: Optimal Prosumer Decisions, Social Welfare, and Cross-Subsidies. IEEE Transactions on Smart Grid, 2023, 14, 1652-1663. | 6.2 | 7 |
| 123 | Distributed Statistical Inference using Type Based Random Access over Multi-access Fading Channels. , 2006, , . | | 6 |
| 124 | Time-reversal space-time coding for doubly-selective channels. , 2006, , . | | 6 |
| 125 | A sensing-based cognitive coexistence method for interfering infrastructure and <i>ad hoc</i> systems. Wireless Communications and Mobile Computing, 2010, 10, 16-30. | 0.8 | 6 |
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| 127 | Improving Multi-job MapReduce Scheduling in an Opportunistic Environment. , 2013, , . | | 6 |
| 128 | The Cramér-Rao bound for estimation-after-selection. , 2014, , . | | 6 |
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| 130 | Risk-Sensitive Security-Constrained Economic Dispatch via Critical Region Exploration. , 2019, , . | | 6 |
| 131 | Probabilistic Hosting Capacity Analysis via Bayesian Optimization. , 2021, , . | | 6 |
| 132 | Channel estimation and equalization with block interleavers. , 0, , . | | 5 |
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| 134 | Tracking of Fast-Fading Channels in Long-Code CDMA. IEEE Transactions on Signal Processing, 2004, 52, 786-795. | 3.2 | 5 |
| 135 | Cross-Layer Design of Opportunistic Spectrum Access in the Presence of Sensing Error. , 2006, , . | | 5 |
| 136 | Demand response via large scale charging of electric vehicles. , 2016, , . | | 5 |
| 137 | Data-Centric and Cooperative MAC Protocols for Sensor Networks. , 0, , 311-348. | | 5 |
| 138 | Pricing Energy Storage in Real-time Market. , 2021, , . | | 5 |
| 139 | Optimal placement of training for channel estimation and tracking. , 0, , . | | 4 |
| 140 | Detecting Encrypted Interactive Stepping-Stone Connections. , 0, , . | | 4 |
| 141 | Distributed Detection of Information Flows in Chaff. , 2007, , . | | 4 |
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| 143 | Low-complexity distributed spectrum sharing among multiple cognitive users. , 2010, , . | | 4 |
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| 145 | Piecewise affine dispatch policies for economic dispatch under uncertainty. , 2014, , . | | 4 |
| 146 | Renewable in distribution networks: Centralized vs. decentralized integration. , 2015, , . | | 4 |
| 147 | Distributed Software Emulator for Cyber-Physical Analysis in Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 506-517. | 3.2 | 4 |
| 148 | State Estimation in Smart Distribution Systems with Deep Generative Adversary Networks. , 2019, , . | | 4 |
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| 150 | Time Synchronized State Estimation for Incompletely Observed Distribution Systems Using Deep Learning Considering Realistic Measurement Noise. , 2021, , . | | 4 |
| 151 | Source reconstruction via mobile agents in sensor networks: throughput-distortion characteristics. , 0, , . | | 3 |
| 152 | A dynamic queue MAC protocol for random access channels with multipacket reception. , 0, , . | | 3 |
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| 154 | Capacity of cooperative sensor networks with sensor errors. , 0, , . | | 3 |
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| 156 | On the maximum throughput of clandestine sensor networking. , 2009, , . | | 3 |
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| 158 | Multi-proxy interchange scheduling under uncertainty. , 2016, , . | | 3 |
| 159 | Learning the Unobservable: High-Resolution State Estimation via Deep Learning. , 2019, , . | | 3 |
| 160 | Information-Theoretic Bounds on Sensor Network Performance. , 0, , 7-41. | | 3 |
| 161 | A Scenario-oriented Approach for Energy-Reserve Joint Procurement and Pricing. , 2021, , . | | 3 |
| 162 | Coordinated Transaction Scheduling in Multi-Area Electricity Markets: Equilibrium and Learning. IEEE Transactions on Power Systems, 2023, 38, 996-1008. | 4.6 | 3 |

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| 163 | Stability of slotted ALOHA with spatial diversity. , 0, , . | | 2 |
| 164 | Using queue statistics in beamforming for ALOHA. , 0, , . | | 2 |
| 165 | The effect of fading on the achievable rate of cooperative sensor networks with misinformed sensors. , 0, , . | | 2 |
| 166 | Sensitivity and Coding of Opportunistic ALOHA in Sensor Networks with Mobile Access. Journal of Signal Processing Systems, 2005, 41, 329-344. | 1.0 | 2 |
| 167 | Nonparametric Change Detection in 2D Random Sensor Field. , 0, , . | | 2 |
| 168 | Energy-Efficient Adaptive Routing for Ad Hoc Networks with Time-Varying Heterogeneous Traffic. , 0, , . | | 2 |
| 169 | Moment Estimation and Dithered Quantization. IEEE Signal Processing Letters, 2006, 13, 752-755. | 2.1 | 2 |
| 170 | Cognitive Medium Access in WLAN Bands: A Real-Time Testbed. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , . | 0.0 | 2 |
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| 172 | Maximum Likelihood Fusion of Stochastic Maps. IEEE Transactions on Signal Processing, 2014, 62, 2090-2099. | 3.2 | 2 |
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| 174 | Coordinated Transaction Scheduling in Multi-Area Power Systems with Strategic Participants. , 2019, , . | | 2 |
| 175 | Asymptotically Optimal Lagrangian Priority Policy for Deadline Scheduling With Processing Rate Limits. IEEE Transactions on Automatic Control, 2022, 67, 236-250. | 3.6 | 2 |
| 176 | In-Network Information Processing in Wireless Sensor Networks. , 0, , 43-67. | | 2 |
| 177 | Game Theoretic Activation and Transmission Scheduling in Unattended Ground Sensor Networks: A Correlated Equilibrium Approach. , 0, , 349-387. | | 2 |
| 178 | A Deep Learning Approach to Anomaly Sequence Detection for High-Resolution Monitoring of Power Systems. IEEE Transactions on Power Systems, 2023, 38, 4-13. | 4.6 | 2 |
| 179 | Channel tracking for fast fading long-code WCDMA. , 0, , . | | 1 |
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| 185 | Networking with Secrecy Constraints. , 2006, , . | | 1 |
| 186 | Optimal link adaptation over partially observable Gilbert-Elliot channels. , 2009, , . | | 1 |
| 187 | Embedding covert information flow. , 2010, , . | | 1 |
| 188 | Mitigating risk of random resources within a two-settlement electricity market. , 2013, , . | | 1 |
| 189 | Monitoring for Power-Line Change and Outage Detection in Smart Grid via the Alternating Direction Method of Multipliers. , 2014, , . | | 1 |
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| 191 | On the efficiency of connection charges under renewable integration in distribution systems. , 2016, , . | | 1 |
| 192 | Online learning and pricing for demand response in smart distribution networks. , 2016, , . | | 1 |
| 193 | Distributed Estimation under Bandwidth and Energy Constraints. , 0, , 149-184. | | 1 |
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| 195 | Blind channel tracking for long-code WCDMA with linear interpolation model. , 0, , . | | 0 |
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| 197 | Dynamic activity management in many-to-one sensor networks. , 2005, , . | | 0 |
| 198 | Cross Layer Design For Multiaccess Communication Over Rayleigh Fading Channels. , 2006, , . | | 0 |

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| 201 | Asymptotically efficient multi-channel estimation for opportunistic spectrum access. , 2011, , . | | 0 |
| 202 | Distributed Learning and Multiaccess of On-Off Channels. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 837-845. | 7.3 | 0 |
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| 205 | Incorporating interface bids in the economic dispatch for multi-area power systems. , 2017, , . | | 0 |
| 206 | Robust tie-line scheduling for multi-area power systems with finite-step convergence. , 2017, , . | | 0 |
| 207 | Risk-Sensitive Optimization And Pricing For The Modern Power Grid. , 2021, , . | | 0 |
| 208 | Stability Analysis of Pricing Competition in Retail Electricity Market: On Impact of Bounded Rationality. , 2021, , . | | 0 |
| 209 | Randomized Cooperative Transmission in Large-Scale Sensor Networks. , 0, , 251-275. | | 0 |
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| 211 | Law of Sensor Network Lifetime and Its Applications. , 0, , 93-116. | | 0 |
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