Ruilong Deng

List of Publications by Year
in descending order

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		182225	111975
93	4,890	30	67
papers	citations	h-index	g-index

95	95	95	5763
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physics-Constrained Robustness Evaluation of Intelligent Security Assessment for Power Systems. IEEE Transactions on Power Systems, 2023, 38, 872-884.	4.6	5
2	False-Data-Injection-Enabled Network Parameter Modifications in Power Systems: Attack and Detection. IEEE Transactions on Industrial Informatics, 2023, 19, 177-188.	7.2	5
3	PDDL: Proactive Distributed Detection and Localization Against Stealthy Deception Attacks in DC Microgrids. IEEE Transactions on Smart Grid, 2023, 14, 714-731.	6.2	9
4	Optimal Coding Schemes for Detecting False Data Injection Attacks in Power System State Estimation. IEEE Transactions on Smart Grid, 2022, 13, 738-749.	6.2	9
5	Generating Adversarial Examples Against Machine Learning-Based Intrusion Detector in Industrial Control Systems. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 1810-1825.	3.7	17
6	Strategic Protection Against FDI Attacks With Moving Target Defense in Power Grids. IEEE Transactions on Control of Network Systems, 2022, 9, 245-256.	2.4	15
7	On Feasibility of Coordinated Time-Delay and False Data Injection Attacks on Cyberâ€“Physical Systems. IEEE Internet of Things Journal, 2022, 9, 8720-8736.	5.5	19
8	QoS Optimization for Mobile Ad Hoc Cloud: A Multi-Agent Independent Learning Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 1077-1082.	3.9	5
9	Converter-Based Moving Target Defense Against Deception Attacks in DC Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3984-3996.	6.2	31
10	Adaptive Resilient Control for Variable-Speed Wind Turbines Against False Data Injection Attacks. IEEE Transactions on Sustainable Energy, 2022, 13, 971-985.	5.9	28
11	Utility Optimization for Multi-User Task Offloading in Mobile Ad Hoc Cloud: A Stochastic Game Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 6596-6608.	3.9	1
12	High-Reliability and Low-Energy Sensor Sharing in Vehicle Platoon Based on Multihop Millimeter-Wave Communication. IEEE Internet of Things Journal, 2022, 9, 18514-18526.	5.5	0
13	Federated Anomaly Detection on System Logs for the Internet of Things: A Customizable and Communication-Efficient Approach. IEEE Transactions on Network and Service Management, 2022, 19, 1705-1716.	3.2	13
14	False Data Injection Attacks and the Distributed Countermeasure in DC Microgrids. IEEE Transactions on Control of Network Systems, 2022, 9, 1962-1974.	2.4	8
15	Distributed Event-Based Control for Thermostatically Controlled Loads Under Hybrid Cyber Attacks. IEEE Transactions on Cybernetics, 2021, 51, 5314-5327.	6.2	24
16	Securing wireless relaying communication for dual unmanned aerial vehicles with unknown eavesdropper. Information Sciences, 2021, 546, 871-882.	4.0	15
17	A Survey on Electric Busesâ€”Energy Storage, Power Management, and Charging Scheduling. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 9-22.	4.7	45
18	Adaptive Event-Triggered Strategy for Economic Dispatch in Uncertain Communication Networks. IEEE Transactions on Control of Network Systems, 2021, 8, 1881-1891.	2.4	12

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19	Load Balancing for Distributed Intelligent Edge Computing: A State-Based Game Approach. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1066-1077.	4.9	13
20	Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. IEEE Internet of Things Journal, 2021, 8, 6608-6623.	5.5	32
21	On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. IEEE Internet of Things Journal, 2021, 8, 6101-6113.	5.5	17
22	Deep Reinforcement Learning Based Massive Access Management for Ultra-Reliable Low-Latency Communications. IEEE Transactions on Wireless Communications, 2021, 20, 2977-2990.	6.1	40
23	Analysis of Moving Target Defense in Unbalanced and Multiphase Distribution Systems Considering Voltage Stability. , 2021, , .		6
24	On Feasibility and Limitations of Detecting False Data Injection Attacks on Power Grid State Estimation Using D-FACTS Devices. IEEE Transactions on Industrial Informatics, 2020, 16, 854-864.	7.2	123
25	Analysis of Moving Target Defense Against False Data Injection Attacks on Power Grid. IEEE Transactions on Information Forensics and Security, 2020, 15, 2320-2335.	4.5	82
26	Zero-Parameter-Information FDI Attacks Against Power System State Estimation. , 2020, , .		7
27	Poster Abstract: Iterative Trajectory Optimization for Dual-UAV Secure Communications. , 2020, , .		0
28	False data injection attacks and countermeasures in smart microgrid systems. , 2020, , 263-279.		1
29	On Hiddenness of Moving Target Defense against False Data Injection Attacks on Power Grid. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-29.	1.9	19
30	False Data Injection Attacks Against State Estimation in Multiphase and Unbalanced Smart Distribution Systems. , 2020, , .		0
31	Cyber-physical Security in Smart Grid Communications. , 2020, , 247-247.		0
32	False Data Injection Attacks With Limited Susceptance Information and New Countermeasures in Smart Grid. IEEE Transactions on Industrial Informatics, 2019, 15, 1619-1628.	7.2	70
33	On Effectiveness of Detecting FDI Attacks on Power Grid using Moving Target Defense. , 2019, , .		5
34	Guest Editorial: Introduction to Special Section on Big Data Computing for the Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 366-368.	3.2	0
35	False Data Injection Attacks Against State Estimation in Multiphase and Unbalanced Smart Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 6000-6013.	6.2	65
36	Deep Reinforcement Learning for Mobile 5G and Beyond: Fundamentals, Applications, and Challenges. IEEE Vehicular Technology Magazine, 2019, 14, 44-52.	2.8	188

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37	Nonzero-Dynamics Stealthy Attack and Its Impacts Analysis in DC Microgrids. , 2019, , .		3
38	False Data Injection Attacks Against State Estimation in Power Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2871-2881.	6.2	145
39	Joint Channel Access and Sampling Rate Control in Energy Harvesting Cognitive Radio Sensor Networks. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 149-161.	3.2	67
40	Joint Load Scheduling and Voltage Regulation in the Distribution System With Renewable Generators. IEEE Transactions on Industrial Informatics, 2018, 14, 1564-1574.	7.2	27
41	A Stochastic Game Approach for PEV Charging Station Operation in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 969-979.	7.2	42
42	An Optimal Real-Time Distributed Algorithm for Utility Maximization of Mobile Ad Hoc Cloud. IEEE Communications Letters, 2018, 22, 824-827.	2.5	14
43	Scheduling of EV Battery Swappingâ€“Part II: Distributed Solutions. IEEE Transactions on Control of Network Systems, 2018, 5, 1920-1930.	2.4	33
44	An Online Algorithm for Data Collection by Multiple Sinks in Wireless-Sensor Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 93-104.	2.4	32
45	Resource allocation in cooperative cognitive radio networks towards secure communications for maritime big data systems. Peer-to-Peer Networking and Applications, 2018, 11, 265-276.	2.6	18
46	A multi-vessels cooperation scheduling for networked maritime fog-ran architecture leveraging SDN. Peer-to-Peer Networking and Applications, 2018, 11, 808-820.	2.6	12
47	Defending Against False Data Injection Attacks on Power System State Estimation. IEEE Transactions on Industrial Informatics, 2017, 13, 198-207.	7.2	246
48	CCPA: Coordinated Cyber-Physical Attacks and Countermeasures in Smart Grid. IEEE Transactions on Smart Grid, 2017, 8, 2420-2430.	6.2	160
49	Genetic optimizationâ€“based scheduling in maritime cyber physical systems. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771716.	1.3	2
50	Distributed optimization of multi-building energy systems with spatially and temporally coupled constraints. , 2017, , .		7
51	Distributed rate control, routing, and energy management in dynamic rechargeable sensor networks. Peer-to-Peer Networking and Applications, 2017, 10, 425-439.	2.6	9
52	False Data Injection on State Estimation in Power Systemsâ€”Attacks, Impacts, and Defense: A Survey. IEEE Transactions on Industrial Informatics, 2017, 13, 411-423.	7.2	403
53	Auction Game Based Optical and Acoustic Communication Scheduling Mechanism for Underwater Scenario. , 2017, , .		0
54	Whether to Charge or Discharge an Electric Vehicle? An Optimal Approach in Polynomial Time. , 2017, , .		9

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55	Towards balanced energy charging and transmission collision in wireless rechargeable sensor networks. Journal of Communications and Networks, 2017, 19, 341-350.	1.8	38
56	Optimal Computing Resource Management Based on Utility Maximization in Mobile Crowdsourcing. Wireless Communications and Mobile Computing, 2017, 2017, 1-13.	0.8	4
57	Indoor Temperature Control of Cost-Effective Smart Buildings via Real-Time Smart Grid Communications. , 2016, , .		15
58	Bi-level Demand Response Game with Information Sharing among Consumers**The work is supported in part by Alberta Innovates Technology Futures (AITF) postdoctoral fellowship.. IFAC-PapersOnLine, 2016, 49, 663-668.	0.5	7
59	Whether to charge an electric vehicle or not? A near-optimal online approach. , 2016, , .		11
60	Towards scheduling to maximize weighted delivered data in maritime CPSs. , 2016, , .		0
61	Resource allocation in cooperative cognitive radio networks towards maritime cyber physical systems. , 2016, , .		0
62	Distributed Real-Time Pricing Control for Large-Scale Unidirectional V2G With Multiple Energy Suppliers. IEEE Transactions on Industrial Informatics, 2016, 12, 1953-1962.	7.2	46
63	Optimal Workload Allocation in Fog-Cloud Computing Towards Balanced Delay and Power Consumption. IEEE Internet of Things Journal, 2016, , 1-1.	5.5	437
64	CIT: A creditâ€based incentive tariff scheme with fraudâ€traceability for smart grid. Security and Communication Networks, 2016, 9, 823-832.	1.0	5
65	BLITHE: Behavior Rule-Based Insider Threat Detection for Smart Grid. IEEE Internet of Things Journal, 2016, 3, 190-205.	5.5	33
66	Maximizing Network Utility of Rechargeable Sensor Networks With Spatiotemporally Coupled Constraints. IEEE Journal on Selected Areas in Communications, 2016, 34, 1307-1319.	9.7	77
67	Perceiving who and when to leverage data delivery for maritime networks: An optimal stopping view. Peer-to-Peer Networking and Applications, 2016, 9, 656-669.	2.6	1
68	Cooperative Networking towards Maritime Cyber Physical Systems. International Journal of Distributed Sensor Networks, 2016, 12, 3906549.	1.3	5
69	Game-theoretic control of PHEV charging with power flow analysis. AIMS Energy, 2016, 4, 379-396.	1.1	7
70	Towards Scheduling to Minimize the Total Penalties of Tardiness of Delivered Data in Maritime CPSs (Invited Paper). Lecture Notes in Computer Science, 2016, , 427-439.	1.0	0
71	Fast Distributed Demand Response With Spatially and Temporally Coupled Constraints in Smart Grid. IEEE Transactions on Industrial Informatics, 2015, 11, 1597-1606.	7.2	76
72	Efficient Scheduling for Video Transmissions in Maritime Wireless Communication Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 4215-4229.	3.9	46

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73	A Survey on Demand Response in Smart Grids: Mathematical Models and Approaches. IEEE Transactions on Industrial Informatics, 2015, 11, 570-582.	7.2	724
74	Towards power consumption-delay tradeoff by workload allocation in cloud-fog computing. , 2015, , .		131
75	Resource Allocation in Cooperative Cognitive Maritime Wireless Mesh/Ad Hoc Networks: An Game Theory View. Lecture Notes in Computer Science, 2015, , 674-684.	1.0	2
76	Energy-efficient power allocation in cognitive sensor networks: a coupled constraint game approach. Wireless Networks, 2015, 21, 1577-1589.	2.0	4
77	Distributed Real-Time Demand Response in Multiselleräâ€“Multibuyer Smart Distribution Grid. IEEE Transactions on Power Systems, 2015, 30, 2364-2374.	4.6	113
78	Green Energy and Content-Aware Data Transmissions in Maritime Wireless Communication Networks. IEEE Transactions on Intelligent Transportation Systems, 2014, , 1-12.	4.7	17
79	Residential Energy Consumption Scheduling: A Coupled-Constraint Game Approach. IEEE Transactions on Smart Grid, 2014, 5, 1340-1350.	6.2	186
80	Load Scheduling With Price Uncertainty and Temporally-Coupled Constraints in Smart Grids. IEEE Transactions on Power Systems, 2014, 29, 2823-2834.	4.6	73
81	Near-optimal online algorithm for data collection by multiple sinks in wireless sensor networks. , 2014, , .		7
82	Cooperative transmission game for smart grid communication. , 2014, , .		10
83	Mobility-Aware Coordinated Charging for Electric Vehicles in VANET-Enhanced Smart Grid. IEEE Journal on Selected Areas in Communications, 2014, 32, 1344-1360.	9.7	93
84	VANET based online charging strategy for electric vehicles. , 2013, , .		6
85	Sensing-Performance Tradeoff in Cognitive Radio Enabled Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 302-310.	6.2	186
86	Load scheduling with price uncertainty and coupling constraints. , 2013, , .		6
87	Energy-efficient spectrum sensing by optimal periodic scheduling in cognitive radio networks. IET Communications, 2012, 6, 676.	1.5	22
88	Energy-efficient cooperative spectrum sensing in sensor-aided cognitive radio networks. IEEE Wireless Communications, 2012, 19, 100-105.	6.6	48
89	Energy-efficient power allocation in cognitive sensor networks: A game theoretic approach. , 2012, , .		3
90	A general approach for building Linux on sensor node Imote2. Computer Standards and Interfaces, 2012, 34, 101-108.	3.8	3

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91	Energy-Efficient Cooperative Spectrum Sensing by Optimal Scheduling in Sensor-Aided Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 716-725.	3.9	283
92	Sensing-delay tradeoff for communication in cognitive radio enabled smart grid. , 2011, , .		6
93	PTFW. , 2009, , .		1