Ping Wang

List of Publications by Year
in descending order

123 papers	10,926 citations	76326 40 h-index	54911 84 g-index
127 all docs	127 docs citations	127 times ranked	8884 citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Pricing and Security Investment in Cloud Security Service Market With User Interdependency. IEEE Transactions on Services Computing, 2022, 15, 1461-1472.	4.6	5
2	Short-Packet Backscatter Assisted Wireless-Powered Relaying With NOMA: Mode Selection With Performance Estimation. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 216-231.	7.9	9
3	Joint Device Assignment and Power Allocation in Multihoming Heterogeneous Multicarrier NOMA Networks. IEEE Systems Journal, 2022, 16, 671-682.	4.6	6
4	Physical Layer Security in Cybertwin-Enabled Integrated Satellite-Terrestrial Vehicle Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4561-4572.	6.3	37
5	Joint Video Packet Assignment, Power Control and User Scheduling Over Cognitive Multi-Homing Heterogeneous NOMA Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4724-4735.	8.3	3
6	An Ultra-Reliable Low-Latency Non-Binary Polar Coded SCMA Scheme. IEEE Transactions on Vehicular Technology, 2022, 71, 6518-6533.	6.3	3
7	Hierarchical Blockchain Design for Distributed Control and Energy Trading Within Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3133-3144.	9.0	30
8	A Novel ASAPPP Approach to Characterize the SIR Distribution in General Cellular Networks. IEEE Wireless Communications Letters, 2022, 11, 1443-1447.	5.0	0
9	Transferable Deep Reinforcement Learning Framework for Autonomous Vehicles With Joint Radar-Data Communications. IEEE Transactions on Communications, 2022, 70, 5164-5180.	7.8	12
10	On Cyber Risk Management of Blockchain Networks: A Game Theoretic Approach. IEEE Transactions on Services Computing, 2021, 14, 1492-1504.	4.6	25
11	Dynamic Resource Management to Defend Against Advanced Persistent Threats in Fog Computing: A Game Theoretic Approach. IEEE Transactions on Cloud Computing, 2021, 9, 995-1007.	4.4	23
12	Toward an Automated Auction Framework for Wireless Federated Learning Services Market. IEEE Transactions on Mobile Computing, 2021, 20, 3034-3048.	5.8	104
13	Dynamic Model for Network Selection in Next Generation HetNets With Memory-Affecting Rational Users. IEEE Transactions on Mobile Computing, 2021, 20, 1365-1379.	5.8	5
14	A Multi-Leader Multi-Follower Game-Based Analysis for Incentive Mechanisms in Socially-Aware Mobile Crowdsensing. IEEE Transactions on Wireless Communications, 2021, 20, 1457-1471.	9.2	33
15	Deep Reinforcement Learning Based Energy Efficient Multi-UAV Data Collection for IoT Networks. IEEE Open Journal of Vehicular Technology, 2021, 2, 249-260.	4.9	11
16	Fast-Convergent Federated Learning With Adaptive Weighting. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1078-1088.	7.9	55
17	Multi-Leader Multi-Follower Game-based Incentive Scheme for Socially-Aware Mobile Crowdsensing. , 2021, , .		1
18	Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). IEEE Internet of Things Journal, 2021, 8, 10052-10070.	8.7	18

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19	Shipper Cooperation in Stochastic Drone Delivery: A Dynamic Bayesian Game Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 7437-7452.	6.3	13
20	Contract Design for Time Resource Assignment and Pricing in Backscatter-Assisted RF-Powered Networks. IEEE Wireless Communications Letters, 2020, 9, 42-46.	5.0	35
21	A Game-Theoretic Analysis for Complementary and Substitutable IoT Services Delivery With Externalities. IEEE Transactions on Communications, 2020, 68, 615-629.	7.8	20
22	Dynamic Pricing for Revenue Maximization in Mobile Social Data Market With Network Effects. IEEE Transactions on Wireless Communications, 2020, 19, 1722-1737.	9.2	25
23	Mechanism Design for Wireless Powered Spatial Crowdsourcing Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 920-934.	6.3	9
24	A Multi-Dimensional Contract Approach for Data Rewarding in Mobile Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5779-5793.	9.2	27
25	Overview of Modern Computer Networks. , 2020, , 11-51.		0
26	Mechanism Design and Auction Theory in Computer Networks. , 2020, , 52-71.		0
27	Open-Cry Auction. , 2020, , 72-99.		0
28	First-Price Sealed-Bid Auction. , 2020, , 100-118.		0
29	Double-Sided Auction. , 2020, , 189-214.		0
30	Other Auctions. , 2020, , 215-235.		0
31	Second-Price Sealed-Bid Auction. , 2020, , 119-157.		1
32	Combinatorial Auction. , 2020, , 158-188.		0
33	Optimal Auction Using Machine Learning. , 2020, , 236-259.		0
34	Incentive Mechanism Design for Mobile Data Rewards using Multi-Dimensional Contract. , 2020, , .		5
35	A Stackelberg Game Approach for Sponsored Content Management in Mobile Data Market With Network Effects. IEEE Internet of Things Journal, 2020, 7, 5184-5201.	8.7	24
36	Data Services Sales Design With Mixed Bundling Strategy: A Multidimensional Adverse Selection Approach. IEEE Internet of Things Journal, 2020, 7, 8826-8836.	8.7	10

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37	Optimal Pricing of Internet of Things: A Machine Learning Approach. IEEE Journal on Selected Areas in Communications, 2020, 38, 669-684.	14.0	20
38	Incentive Mechanism for Socially-Aware Mobile Crowdsensing: A Bayesian Stackelberg Game. Lecture Notes in Computer Science, 2020, , 394-406.	1.3	0
39	Joint Optimization of Scheduling and Power Control in Wireless Networks: Multi-Dimensional Modeling and Decomposition. IEEE Transactions on Mobile Computing, 2019, 18, 1585-1600.	5.8	16
40	Incentivizing Consensus Propagation in Proof-of-Stake Based Consortium Blockchain Networks. IEEE Wireless Communications Letters, 2019, 8, 157-160.	5.0	78
41	Joint Traffic Routing and Virtualized Security Function Activation in Wireless Multihop Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9205-9219.	6.3	5
42	An Incentive Mechanism Design for Socially Aware Crowdsensing Services with Incomplete Information. IEEE Communications Magazine, 2019, 57, 74-80.	6.1	33
43	Optimal and Low-Complexity Dynamic Spectrum Access for RF-Powered Ambient Backscatter System With Online Reinforcement Learning. IEEE Transactions on Communications, 2019, 67, 5736-5752.	7.8	25
44	Dynamic Access Point and Service Selection in Backscatter-Assisted RF-Powered Cognitive Networks. IEEE Internet of Things Journal, 2019, 6, 8270-8283.	8.7	24
45	Cloud/Edge Computing Service Management in Blockchain Networks: Multi-leader Multi-follower Game-based ADMM for Pricing. IEEE Transactions on Services Computing, 2019, , 1-1.	4.6	89
46	Joint Service Pricing and Cooperative Relay Communication for Federated Learning. , 2019, , .		65
47	Ambient Backscatter-Assisted Wireless-Powered Relaying. IEEE Transactions on Green Communications and Networking, 2019, 3, 1087-1105.	5.5	26
48	Applications of Deep Reinforcement Learning in Communications and Networking: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3133-3174.	39.4	1,071
49	Deep Reinforcement Learning for Mobile 5G and Beyond: Fundamentals, Applications, and Challenges. IEEE Vehicular Technology Magazine, 2019, 14, 44-52.	3.4	188
50	Auction Mechanisms in Cloud/Fog Computing Resource Allocation for Public Blockchain Networks. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1975-1989.	5.6	180
51	Auction-Based Time Scheduling for Backscatter-Aided RF-Powered Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1684-1697.	9.2	104
52	A Survey on Consensus Mechanisms and Mining Strategy Management in Blockchain Networks. IEEE Access, 2019, 7, 22328-22370.	4.2	616
53	Design of Contract-Based Sponsorship Scheme in Stackelberg Game for Sponsored Content Market. , 2019, , .		1
54	Contract-Based Approach for Security Deposit in Blockchain Networks with Shards. , 2019, , .		9

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55	Multi-Objective Optimization for Drone Delivery. , 2019, , .		13
56	A Stackelberg Game Approach Toward Socially-Aware Incentive Mechanisms for Mobile Crowdsensing. IEEE Transactions on Wireless Communications, 2019, 18, 724-738.	9.2	129
57	Joint Ground and Aerial Package Delivery Services: A Stochastic Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2241-2254.	8.0	66
58	Joint Sponsored and Edge Caching Content Service Market: A Game-Theoretic Approach. IEEE Transactions on Wireless Communications, 2019, 18, 1166-1181.	9.2	48
59	Applications of Economic and Pricing Models for Resource Management in 5G Wireless Networks: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3298-3339.	39.4	87
60	Cloud/Fog Computing Resource Management and Pricing for Blockchain Networks. IEEE Internet of Things Journal, 2019, 6, 4585-4600.	8.7	234
61	A Hierarchical Game With Strategy Evolution for Mobile Sponsored Content and Service Markets. IEEE Transactions on Communications, 2019, 67, 472-488.	7.8	14
62	An Interactive Decision-Making Model Based on Energy and Reserve for Electric Vehicles and Power Grid Using Generalized Stackelberg Game. IEEE Transactions on Industry Applications, 2019, 55, 3301-3309.	4.9	28
63	Multi-Objective Optimal Dispatch of Microgrid Under Uncertainties via Interval Optimization. IEEE Transactions on Smart Grid, 2019, 10, 2046-2058.	9.0	98
64	A Scalable Approach to Joint Cyber Insurance and Security-as-a-Service Provisioning in Cloud Computing. IEEE Transactions on Dependable and Secure Computing, 2019, 16, 565-579.	5.4	16
65	Optimal Operation of Multimicrogrids via Cooperative Energy and Reserve Scheduling. IEEE Transactions on Industrial Informatics, 2018, 14, 3459-3468.	11.3	109
66	Flexible Scheduling of Microgrid With Uncertainties Considering Expectation and Robustness. IEEE Transactions on Industry Applications, 2018, 54, 3009-3018.	4.9	12
67	Optimal Time Scheduling for Wireless-Powered Backscatter Communication Networks. IEEE Wireless Communications Letters, 2018, 7, 820-823.	5.0	38
68	Profit Maximization Mechanism and Data Management for Data Analytics Services. IEEE Internet of Things Journal, 2018, 5, 2001-2014.	8.7	47
69	Evolutionary Game for Mining Pool Selection in Blockchain Networks. IEEE Wireless Communications Letters, 2018, 7, 760-763.	5.0	115
70	Toward Optimal Energy Management of Microgrids via Robust Two-Stage Optimization. IEEE Transactions on Smart Grid, 2018, 9, 1161-1174.	9.0	108
71	Supplier Cooperation in Drone Delivery. , 2018, , .		10
72	Competitive Data Trading in Wireless-Powered Internet of Things (IoT) Crowdsensing Systems with Blockchain. , 2018, , .		12

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73	Game Theoretic Analysis for Joint Sponsored and Edge Caching Content Service Market. , 2018, , .		24
74	A Socially-Aware Incentive Mechanism for Mobile Crowdsensing Service Market. , 2018, , .		38
75	Toward a Perpetual IoT System: Wireless Power Management Policy With Threshold Structure. IEEE Internet of Things Journal, 2018, 5, 5254-5270.	8.7	9
76	Ambient Backscatter Communications: A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2889-2922.	39.4	523
77	Physical Layer Security in Wireless Networks With Ginibre Point Processes. IEEE Transactions on Wireless Communications, 2018, 17, 5132-5147.	9.2	10
78	Competition and cooperation analysis for data sponsored market: A network effects model. , 2018, , .		35
79	Stackelberg Game for Distributed Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5606-5622.	9.2	56
80	Joint pricing and security investment for cloud-insurance: A security interdependency perspective. , 2018, , .		4
81	Performance Analysis and Application of Mobile Blockchain. , 2018, , .		62
82	Fog Radio Access Networks: Ginibre Point Process Modeling and Analysis. IEEE Transactions on Wireless Communications, 2018, 17, 5564-5580.	9.2	19
83	Optimal Auction for Edge Computing Resource Management in Mobile Blockchain Networks: A Deep Learning Approach. , 2018, , .		131
84	Performance Analysis of Wireless-Powered Relaying with Ambient Backscattering. , 2018, , .		24
85	Decentralized Caching for Content Delivery Based on Blockchain: A Game Theoretic Perspective. , 2018, , .		43
86	Social Welfare Maximization Auction in Edge Computing Resource Allocation for Mobile Blockchain. , 2018, , .		118
87	Max-Min Resource Allocation for Video Transmission in NOMA-Based Cognitive Wireless Networks. IEEE Transactions on Communications, 2018, 66, 5804-5813.	7.8	35
88	Backscatter Relay Communications Powered by Wireless Energy Beamforming. IEEE Transactions on Communications, 2018, 66, 3187-3200.	7.8	94
89	Scalable Traffic Management for Mobile Cloud Services in 5G Networks. IEEE Transactions on Network and Service Management, 2018, 15, 1560-1570.	4.9	7
90	When Mobile Blockchain Meets Edge Computing. IEEE Communications Magazine, 2018, 56, 33-39.	6.1	448

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91	An interactive decision making model based on energy and reserve for electric vehicles and power grid using generalized Stackelberg game. , 2018, , .		3
92	Charging and Discharging of Plug-In Electric Vehicles (PEVs) in Vehicle-to-Grid (V2G) Systems: A Cyber Insurance-Based Model. IEEE Access, 2017, 5, 732-754.	4.2	122
93	Resource Management in Cloud Networking Using Economic Analysis and Pricing Models: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 954-1001.	39.4	175
94	Hybrid Centralized-Decentralized (HCD) Charging Control of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 6728-6741.	6.3	51
95	Profit Maximization Auction and Data Management in Big Data Markets. , 2017, , .		15
96	Ambient Backscatter: A New Approach to Improve Network Performance for RF-Powered Cognitive Radio Networks. IEEE Transactions on Communications, 2017, 65, 3659-3674.	7.8	171
97	Privacy Management and Optimal Pricing in People-Centric Sensing. IEEE Journal on Selected Areas in Communications, 2017, 35, 906-920.	14.0	32
98	Performance Analysis of Multihop Relaying Systems in an $alpha$-Ginibre Field of Interferers. IEEE Transactions on Vehicular Technology, 2017, 66, 7573-7577.	6.3	5
99	Cooperative Management in Full-Truckload and Less-Than-Truckload Vehicle System. IEEE Transactions on Vehicular Technology, 2017, 66, 5707-5722.	6.3	18
100	Applications of Economic and Pricing Models for Wireless Network Security: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 2735-2767.	39.4	36
101	A Hierarchical Game with Strategy Evolution for Mobile Sponsored Content/Service Markets. , 2017, , .		29
102	Optimal Stochastic Package Delivery Planning with Deadline: A Cardinality Minimization in Routing. , 2017, , .		2
103	Optimal Stochastic Delivery Planning in Full-Truckload and Less-Than-Truckload Delivery. , 2017, , .		5
104	Overlay RF-powered backscatter cognitive radio networks: A game theoretic approach. , 2017, , .		35
105	Network Effect-Based Sequential Dynamic Pricing for Mobile Social Data Market. , 2017, , .		24
106	Economic Analysis of Network Effects on Sponsored Content: A Hierarchical Game Theoretic Approach. , 2017, , .		59
107	Self-Sustainable Communications With RF Energy Harvesting: Ginibre Point Process Modeling and Analysis. IEEE Journal on Selected Areas in Communications, 2016, 34, 1518-1535.	14.0	55
108	Distributed wireless energy scheduling for wireless powered sensor networks. , 2016, , .		10

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109	Market model and optimal pricing scheme of big data and Internet of Things (IoT). , 2016, , .		68
110	Economics of Internet of Things: an information market approach. IEEE Wireless Communications, 2016, 23, 136-145.	9.0	87
111	Data Collection and Wireless Communication in Internet of Things (IoT) Using Economic Analysis and Pricing Models: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2546-2590.	39.4	248
112	Auction Mechanisms Toward Efficient Resource Sharing for Cloudlets in Mobile Cloud Computing. IEEE Transactions on Services Computing, 2016, 9, 895-909.	4.6	141
113	Smart data pricing models for the internet of things: a bundling strategy approach. IEEE Network, 2016, 30, 18-25.	6.9	73
114	Wireless Charging Technologies: Fundamentals, Standards, and Network Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 1413-1452.	39.4	745
115	Resource allocation in wireless networks with RF energy harvesting and transfer. IEEE Network, 2015, 29, 68-75.	6.9	81
116	Applications of Repeated Games in Wireless Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 2102-2135.	39.4	45
117	Performance Analysis of Ambient RF Energy Harvesting with Repulsive Point Process Modeling. IEEE Transactions on Wireless Communications, 2015, 14, 5402-5416.	9.2	65
118	Wireless Networks With RF Energy Harvesting: A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 757-789.	39.4	2,022
119	Opportunistic Channel Access and RF Energy Harvesting in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 2039-2052.	14.0	125
120	A Layered Coalitional Game Framework of Wireless Relay Network. IEEE Transactions on Vehicular Technology, 2014, 63, 472-478.	6.3	22
121	Dynamic spectrum access in cognitive radio networks with RF energy harvesting. IEEE Wireless Communications, 2014, 21, 102-110.	9.0	171
122	Optimal decentralized security software deployment in multihop wireless networks. , 2014, , .		2
123	Auction Approaches for Resource Allocation in Wireless Systems: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 1020-1041.	39.4	214