Qihui

List of Publications by Year in descending order

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136 papers	5,784 citations	101543 36 h-index	82547 72 g-index
136 all docs	136 docs citations	136 times ranked	4313 citing authors

#	Article	IF	Citations
1	Self-Position Awareness Based on Cascade Direct Localization Over Multiple Source Data. IEEE Transactions on Intelligent Transportation Systems, 2024, 25, 796-804.	8.0	22
2	Hierarchical Aerial Computing for Internet of Things via Cooperation of HAPs and UAVs. IEEE Internet of Things Journal, 2023, 10, 5676-5688.	8.7	25
3	A Task-Driven Sequential Overlapping Coalition Formation Game for Resource Allocation in Heterogeneous UAV Networks. IEEE Transactions on Mobile Computing, 2023, 22, 4439-4455.	5.8	7
4	3D Compressed Spectrum Mapping With Sampling Locations Optimization in Spectrum-Heterogeneous Environment. IEEE Transactions on Wireless Communications, 2022, 21, 326-338.	9.2	17
5	Joint Channel and Link Selection in Formation-Keeping UAV Networks: A Two-Way Consensus Game. IEEE Transactions on Mobile Computing, 2022, 21, 2861-2875.	5.8	7
6	A Novel Automatic Modulation Classification Scheme Based on Multi-Scale Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 97-110.	7.9	19
7	A Multiscale CNN Framework for Wireless Technique Classification in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 10366-10367.	8.7	5
8	Deep Learning Empowered MAC Protocol Identification With Squeeze-and-Excitation Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 683-693.	7.9	6
9	Resilient UAV Swarm Communications With Graph Convolutional Neural Network. IEEE Journal on Selected Areas in Communications, 2022, 40, 393-411.	14.0	14
10	Topology Sensing of Non-Collaborative Wireless Networks With Conditional Granger Causality. IEEE Transactions on Network Science and Engineering, 2022, 9, 1501-1515.	6.4	4
11	Resource Allocation and Trajectory Design for MISO UAV-Assisted MEC Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4933-4948.	6.3	39
12	Joint pricing and task allocation for blockchain empowered crowd spectrum sensing. Peer-to-Peer Networking and Applications, 2022, 15, 783-792.	3.9	5
13	Adaptive Routing Design for Flying Ad Hoc Networks. IEEE Communications Letters, 2022, 26, 1438-1442.	4.1	11
14	Joint Computation Offloading, Role, and Location Selection in Hierarchical Multicoalition UAV MEC Networks: A Stackelberg Game Learning Approach. IEEE Internet of Things Journal, 2022, 9, 18293-18304.	8.7	17
15	Applications of Multi-Agent Reinforcement Learning in Future Internet: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 1240-1279.	39.4	37
16	Multi-Objective Optimization for Spectrum and Energy Efficiency Tradeoff in IRS-Assisted CRNs With NOMA. IEEE Transactions on Wireless Communications, 2022, 21, 6627-6642.	9.2	27
17	Efficient Remote Compressed Spectrum Mapping in 3-D Spectrum-Heterogeneous Environment With Inaccessible Areas. IEEE Wireless Communications Letters, 2022, 11, 1488-1492.	5.0	4
18	Graph neural network-based scheduling for multi-UAV-enabled communications in D2D networks. Digital Communications and Networks, 2022, , .	5.0	5

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19	Few-Shot Learning UAV Recognition Methods Based on the Tri-Residual Semantic Network. IEEE Communications Letters, 2022, 26, 2072-2076.	4.1	5
20	Source Direction Finding and Direct Localization Exploiting UAV Array With Unknown Gain-Phase Errors. IEEE Internet of Things Journal, 2022, 9, 21561-21569.	8.7	11
21	DEMO Abstract: An UAV-based 3D Spectrum Real-time Mapping System. , 2022, , .		5
22	Dynamic Channel Selection and Transmission Scheduling for Cognitive Radio Networks. IEEE Internet of Things Journal, 2022, 9, 24429-24443.	8.7	4
23	RFML-Driven Spectrum Prediction: A Novel Model-Enabled Autoregressive Network. IEEE Internet of Things Journal, 2022, 9, 18164-18165.	8.7	3
24	Blockchain-Based Secure Crowdsourcing in Wireless IoT. Journal of Communications and Information Networks, 2022, 7, 23-36.	5.2	3
25	Channel Estimation Enhancement With Generative Adversarial Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 145-156.	7.9	12
26	Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. IEEE Internet of Things Journal, 2021, 8, 695-707.	8.7	32
27	Green Deep Reinforcement Learning for Radio Resource Management: Architecture, Algorithm Compression, and Challenges. IEEE Vehicular Technology Magazine, 2021, 16, 29-39.	3.4	19
28	Robust Trajectory and Beamforming Design for Cognitive MISO UAV Networks. IEEE Wireless Communications Letters, 2021, 10, 396-400.	5.0	12
29	Joint Task Assignment and Spectrum Allocation in Heterogeneous UAV Communication Networks: A Coalition Formation Game-Theoretic Approach. IEEE Transactions on Wireless Communications, 2021, 20, 440-452.	9.2	59
30	Compact Planar W-Band Front-End Module Based on EBG Packaging and LTCC Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 878-882.	3.0	3
31	Cooperative Topology Sensing of Wireless Networks With Distributed Sensors. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 524-540.	7.9	11
32	IRS-Enhanced Energy Detection for Spectrum Sensing in Cognitive Radio Networks. IEEE Wireless Communications Letters, 2021, 10, 2254-2258.	5.0	53
33	A Multi-Leader Multi-Follower Stackelberg Game for Coalition-Based UAV MEC Networks. IEEE Wireless Communications Letters, 2021, 10, 2350-2354.	5.0	20
34	A New Method of Integer Parameter Estimation in Linear Models With Applications to GNSS High Precision Positioning. IEEE Transactions on Signal Processing, 2021, 69, 4567-4579.	5.3	3
35	Two Birds With One Stone: Simultaneous Jamming and Eavesdropping With the Bayesian-Stackelberg Game. IEEE Transactions on Communications, 2021, 69, 8013-8027.	7.8	8
36	Expectation Propagation-Based Sampling Decoding: Enhancement and Optimization. IEEE Transactions on Signal Processing, 2021, 69, 195-209.	5.3	5

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37	Automatic Modulation Classification Using Involution Enabled Residual Networks. IEEE Wireless Communications Letters, 2021, 10, 2417-2420.	5.0	8
38	Direction of Arrival Estimation Using Sparse Nested Arrays With Coprime Displacement. IEEE Sensors Journal, 2021, 21, 5282-5291.	4.7	25
39	Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2021, 8, 8005-8020.	8.7	25
40	Radar Target Detection via GAMP: A Sparse Recovery Strategy Off the Grid. IEEE Transactions on Vehicular Technology, 2021, 70, 4153-4165.	6.3	2
41	Multi-Maneuvering Sources DOA Tracking With Improved Interactive Multi-Model Multi-Bernoulli Filter for Acoustic Vector Sensor (AVS) Array. IEEE Transactions on Vehicular Technology, 2021, 70, 7825-7838.	6.3	15
42	Parametric Decomposition of Pulsed Lidar Signals with Noise Corruption Using FRFT Spectrum Analysis. Remote Sensing, 2021, 13, 3296.	4.0	0
43	Spectrum Allocation for Task-Driven UAV Communication Networks Exploiting Game Theory. IEEE Wireless Communications, 2021, 28, 174-181.	9.0	15
44	A Real-Time Hardware Emulator for 3D Non-Stationary U2V Channels. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3951-3964.	5.4	23
45	Blockchain-Assisted Dynamic Spectrum Sharing in the CBRS Band. , 2021, , .		10
46	Three-Dimensional Completion Method with Uniformity Decision Mechanism for Spectrum Sensing Data. , 2021, , .		0
47	UAV-Assisted Three-Dimensional Spectrum Mapping Driven by Spectrum Data and Channel Model. Symmetry, 2021, 13, 2308.	2.2	6
48	Blockchain-Based Secure Spectrum Trading for Unmanned-Aerial-Vehicle-Assisted Cellular Networks: An Operatorâ€™s Perspective. IEEE Internet of Things Journal, 2020, 7, 451-466.	8.7	127
49	Spatially Correlated Massive MIMO Relay Systems With Low-Resolution ADCs. IEEE Transactions on Vehicular Technology, 2020, 69, 6541-6553.	6.3	16
50	3D Spectrum Mapping Based on ROI-Driven UAV Deployment. IEEE Network, 2020, 34, 24-31.	6.9	21
51	Opportunistic Utilization of Dynamic Multi-UAV in Device-to-Device Communication Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083.	7.9	25
52	Opportunistic Data Collection in Cognitive Wireless Sensor Networks: Airâ€“Ground Collaborative Online Planning. IEEE Internet of Things Journal, 2020, 7, 8837-8851.	8.7	29
53	Opportunistic UAV Utilization in Wireless Networks: Motivations, Applications, and Challenges. IEEE Communications Magazine, 2020, 58, 62-68.	6.1	75
54	One-Bit LFMCW Radar: Spectrum Analysis and Target Detection. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2732-2750.	4.7	29

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55	Data-Driven Interference Localization Using a Single Satellite Based on Received Signal Strength. IEEE Transactions on Vehicular Technology, 2020, 69, 8657-8669.	6.3	3
56	Fair-Energy Trajectory Planning for Multi-Target Positioning Based on Cooperative Unmanned Aerial Vehicles. IEEE Access, 2020, 8, 9782-9795.	4.2	10
57	A Two-Stage Feedback Protocol Based on Multipath Profile for MU-MIMO Networks. IEICE Transactions on Communications, 2020, E103.B, 559-569.	0.7	0
58	Extended Coprime Array Configuration Generating Large-Scale Antenna Co-Array in Massive MIMO System. IEEE Transactions on Vehicular Technology, 2019, 68, 7841-7853.	6.3	67
59	Self-Organizing Relay Selection in UAV Communication Networks: A Matching Game Perspective. IEEE Wireless Communications, 2019, 26, 102-110.	9.0	68
60	Opportunistic Data Ferrying in UAV-Assisted D2D Networks: A Dynamic Hierarchical Game. , 2019, , .		11
61	Task-Driven Relay Assignment in Distributed UAV Communication Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 11003-11017.	6.3	69
62	UAV-Based 3D Spectrum Sensing in Spectrum-Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5711-5722.	6.3	65
63	Interference-Aware Online Distributed Channel Selection for Multicluster FANET: A Potential Game Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 3792-3804.	6.3	61
64	Detecting Abnormal Power Emission for Orderly Spectrum Usage. IEEE Transactions on Vehicular Technology, 2019, 68, 1989-1992.	6.3	7
65	RV-MAC: A Reliable MAC Protocol for Multi-Hop VANETs. IEICE Transactions on Communications, 2019, E102.B, 1626-1635.	0.7	1
66	Opportunistic Mobility Utilization in Flying Ad-Hoc Networks: A Dynamic Matching Approach. IEEE Communications Letters, 2019, 23, 728-731.	4.1	20
67	Pilot Spoofing Attack Detection and Downlink Precoding in Massive MIMO Systems. , 2019, , .		3
68	Air-Ground Heterogeneous Networks for 5G and Beyond via Integrating High and Low Altitude Platforms. IEEE Wireless Communications, 2019, 26, 140-148.	9.0	119
69	Detection of Abnormal Power Emission in UAV Communication Networks. IEEE Wireless Communications Letters, 2019, 8, 1179-1182.	5.0	3
70	Context-Aware Group Buying in Ultra-Dense Small Cell Networks: Unity Is Strength. IEEE Wireless Communications, 2019, 26, 118-125.	9.0	27
71	Maximization of Data Dissemination in UAV-Supported Internet of Things. IEEE Wireless Communications Letters, 2019, 8, 185-188.	5.0	36
72	Maximizing D2D-Based Offloading Efficiency With Throughput Guarantee and Buffer Constraint. IEEE Transactions on Vehicular Technology, 2019, 68, 832-842.	6.3	9

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73	Byzantine Attacker Identification in Collaborative Spectrum Sensing: A Robust Defense Framework. IEEE Transactions on Mobile Computing, 2019, 18, 1992-2004.	5.8	23
74	An Incentive Mechanism Design View for Hybrid Access in Small Cell Networks: Keeping a Secret Is Not Smart. IEEE Systems Journal, 2019, 13, 542-553.	4.6	0
75	Cooperative Data Dissemination in Air-Ground Integrated Networks. IEEE Wireless Communications Letters, 2019, 8, 209-212.	5.0	13
76	Beam Tracking for UAV Mounted SatCom on-the-Move With Massive Antenna Array. IEEE Journal on Selected Areas in Communications, 2018, 36, 363-375.	14.0	141
77	Robust Cooperative Spectrum Sensing Based on Adaptive Reputation and Evidential Reasoning Theory in Cognitive Radio Network. Circuits, Systems, and Signal Processing, 2018, 37, 4455-4481.	2.0	7
78	Performance Analysis of Energy Harvesting Multi-Antenna Relay Networks With Different Antenna Selection Schemes. IEEE Access, 2018, 6, 5654-5665.	4.2	32
79	Distributed Demand-Aware Channel-Slot Selection for Multi-UAV Networks: A Game-Theoretic Learning Approach. IEEE Access, 2018, 6, 14799-14811.	4.2	35
80	Time-Frequency Scheduling and Power Optimization for Reliable Multiple UAV Communications. IEEE Access, 2018, 6, 3992-4005.	4.2	32
81	An Amateur Drone Surveillance System Based on the Cognitive Internet of Things. IEEE Communications Magazine, 2018, 56, 29-35.	6.1	283
82	Interference-Aware Spectrum Access Self-Organization: A Weighted Graph Game Perspective. IEEE Systems Journal, 2018, 12, 3250-3259.	4.6	12
83	A Game-Theoretic Approach for Optimal Distributed Cooperative Hybrid Caching in D2D Networks. IEEE Wireless Communications Letters, 2018, 7, 324-327.	5.0	20
84	Spectrum Sensing Under Spectrum Misuse Behaviors: A Multi-Hypothesis Test Perspective. IEEE Transactions on Information Forensics and Security, 2018, 13, 993-1007.	6.9	24
85	Data-Driven Deployment and Cooperative Self-Organization in Ultra-Dense Small Cell Networks. IEEE Access, 2018, 6, 22839-22848.	4.2	24
86	Channel Tracking With Flight Control System for UAV mmWave MIMO Communications. IEEE Communications Letters, 2018, 22, 1224-1227.	4.1	82
87	Anti-Jamming Communications Using Spectrum Waterfall: A Deep Reinforcement Learning Approach. IEEE Communications Letters, 2018, 22, 998-1001.	4.1	151
88	Robust Localization with Crowd Sensors: A Data Cleansing Approach. Mobile Networks and Applications, 2018, 23, 108-118.	3.3	7
89	Spectrum Inference in Cognitive Radio Networks: Algorithms and Applications. IEEE Communications Surveys and Tutorials, 2018, 20, 150-182.	39.4	138
90	FM-MAC: A Multi-Channel MAC Protocol for FANETs with Directional Antenna. , 2018, , .		9

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91	Spectrum Sharing between UAV-based Wireless Mesh Networks and Ground Networks. , 2018, , .		13
92	Sum Rate Maximization in UAV-Enabled Mobile Relay Networks. , 2018, , .		6
93	Context Awareness Group Buying in D2D Networks: A Coalition Formation Game-Theoretic Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 12259-12272.	6.3	30
94	Secrecy Performance of Wireless Powered Communication Networks With Multiple Eavesdroppers and Outdated CSI. IEEE Access, 2018, 6, 33774-33788.	4.2	14
95	Device-to-Device Communications Underlying UAV-Supported Social Networking. IEEE Access, 2018, 6, 34488-34502.	4.2	43
96	A Novel 3D Non-Stationary Wireless MIMO Channel Simulator and Hardware Emulator. IEEE Transactions on Communications, 2018, 66, 3865-3878.	7.8	92
97	Robust Relative Fingerprinting-Based Passive Source Localization via Data Cleansing. IEEE Access, 2018, 6, 19255-19269.	4.2	2
98	Long-Term Spectrum State Prediction: An Image Inference Perspective. IEEE Access, 2018, 6, 43489-43498.	4.2	26
99	Joint 3D Location and Power Optimization for UAV-Enabled Relaying Systems. IEEE Access, 2018, 6, 43113-43124.	4.2	23
100	A Multi-Leader One-Follower Stackelberg Game Approach for Cooperative Anti-Jamming: No Pains, No Gains. IEEE Communications Letters, 2018, 22, 1680-1683.	4.1	30
101	Information Measurement of Cognitive Communication Systems: The Introduction of Negative Cognitive Information. IEEE Access, 2018, 6, 34288-34295.	4.2	3
102	Recent Advances in Radio Environment Map: A Survey. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 247-257.	0.3	12
103	An iterative approach for sparse direction-of-arrival estimation in co-prime arrays with off-grid targets. , 2017, 61, 35-42.		37
104	QoE and Energy Aware Resource Allocation in Small Cell Networks With Power Selection, Load Management, and Channel Allocation. IEEE Transactions on Vehicular Technology, 2017, 66, 7461-7473.	6.3	29
105	Energy Efficiency of Small Cell Networks: Metrics, Methods and Market. IEEE Access, 2017, 5, 5965-5971.	4.2	20
106	Resource Allocation for D2D Wireless Networks With Asymmetric Social Weighted Graph. IEEE Communications Letters, 2017, 21, 2085-2088.	4.1	9
107	Dynamic Spectrum Access in Time-Varying Environment: Distributed Learning Beyond Expectation Optimization. IEEE Transactions on Communications, 2017, 65, 5305-5318.	7.8	61
108	Distributed ABS-Slot Access in Dense Heterogeneous Networks: A Potential Game Approach With Generalized Interference Model. IEEE Access, 2017, 5, 94-104.	4.2	15

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109	Predictability Analysis of Spectrum State Evolution: Performance Bounds and Real-World Data Analytics. IEEE Access, 2017, 5, 22760-22774.	4.2	18
110	Byzantine Defense in Collaborative Spectrum Sensing via Bayesian Learning. IEEE Access, 2017, 5, 20089-20098.	4.2	23
111	Joint Transceiver Optimization of MIMO SWIPT Systems for Harvested Power Maximization. IEEE Signal Processing Letters, 2017, 24, 1557-1561.	3.6	5
112	Group buying based on social aware in D2D networks: A game theoretic approach. , 2017, , .		6
113	Distributed relay selection for heterogeneous UAV communication networks using a many-to-many matching game without substitutability. , 2017, , .		13
114	A Cloud-Based Architecture for the Internet of Spectrum Devices Over Future Wireless Networks. IEEE Access, 2016, 4, 2854-2862.	4.2	83
115	Hierarchical Resource Allocation Framework for Hyper-Dense Small Cell Networks. IEEE Access, 2016, 4, 8657-8669.	4.2	45
116	A Joint Tensor Completion and Prediction Scheme for Multi-Dimensional Spectrum Map Construction. IEEE Access, 2016, 4, 8044-8052.	4.2	49
117	Two-Dimensional Direction-of-Arrival Estimation for Co-Prime Planar Arrays: A Partial Spectral Search Approach. IEEE Sensors Journal, 2016, 16, 5660-5670.	4.7	95
118	Defending Against Byzantine Attack in Cooperative Spectrum Sensing: Defense Reference and Performance Analysis. IEEE Access, 2016, 4, 4011-4024.	4.2	28
119	QoE-based Distributed Multichannel Allocation in 5G Heterogeneous Cellular Networks: A Matching-coalitional Game Solution. IEEE Access, 2016, , 1-1.	4.2	25
120	Traffic-Aware Online Network Selection in Heterogeneous Wireless Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 381-397.	6.3	39
121	Load-Aware Dynamic Spectrum Access for Small-Cell Networks: A Graphical Game Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 8794-8800.	6.3	26
122	Cellular-Base-Station-Assisted Device-to-Device Communications in TV White Space. IEEE Journal on Selected Areas in Communications, 2016, 34, 107-121.	14.0	147
123	Byzantine Attack and Defense in Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 1342-1363.	39.4	183
124	Exploiting User Demand Diversity in Heterogeneous Wireless Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4142-4155.	9.2	47
125	Demand-Aware Multichannel Opportunistic Spectrum Access: A Local Interaction Game Approach With Reduced Information Exchange. IEEE Transactions on Vehicular Technology, 2015, 64, 4899-4904.	6.3	23
126	Cognitive Internet of Things: A New Paradigm Beyond Connection. IEEE Internet of Things Journal, 2014, 1, 129-143.	8.7	434

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127	User-Demand-Aware Wireless Network Selection: A Localized Cooperation Approach. IEEE Transactions on Vehicular Technology, 2014, 63, 4492-4507.	6.3	75
128	Robust Spectrum Sensing With Crowd Sensors. IEEE Transactions on Communications, 2014, 62, 3129-3143.	7.8	117
129	Performance analysis of probabilistic soft SSDF attack in cooperative spectrum sensing. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	29
130	Kernel-Based Learning for Statistical Signal Processing in Cognitive Radio Networks: Theoretical Foundations, Example Applications, and Future Directions. IEEE Signal Processing Magazine, 2013, 30, 126-136.	5.6	163
131	Decision-Theoretic Distributed Channel Selection for Opportunistic Spectrum Access: Strategies, Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2013, 15, 1689-1713.	39.4	196
132	Spatial-Temporal Opportunity Detection for Spectrum-Heterogeneous Cognitive Radio Networks: Two-Dimensional Sensing. IEEE Transactions on Wireless Communications, 2013, 12, 516-526.	9.2	203
133	Opportunistic Spectrum Access with Spatial Reuse: Graphical Game and Uncoupled Learning Solutions. IEEE Transactions on Wireless Communications, 2013, 12, 4814-4826.	9.2	79
134	Opportunistic Spectrum Access Using Partially Overlapping Channels: Graphical Game and Uncoupled Learning. IEEE Transactions on Communications, 2013, 61, 3906-3918.	7.8	64
135	Opportunistic Spectrum Access in Unknown Dynamic Environment: A Game-Theoretic Stochastic Learning Solution. IEEE Transactions on Wireless Communications, 2012, 11, 1380-1391.	9.2	229
136	Opportunistic Spectrum Access in Cognitive Radio Networks: Global Optimization Using Local Interaction Games. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 180-194.	10.8	273