

Wenjun Xu

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130
papers

1,491
citations

21
h-index

32
g-index

169
ext. papers

1,998
ext. citations

4.3
avg, IF

5.17
L-index

#	Paper	IF	Citations
130	Optimal Energy-Efficient Power Allocation for OFDM-Based Cognitive Radio Networks. <i>IEEE Communications Letters</i> , 2012 , 16, 1420-1423	3.8	76
129	Cyber-physical integration for moving digital factories forward towards smart manufacturing: a survey. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 1209-1221	3.2	67
128	An improved discrete bees algorithm for correlation-aware service aggregation optimization in cloud manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 84, 17-28	3.2	58
127	Sensorless and adaptive admittance control of industrial robot in physical human-robot interaction. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 51, 158-168	9.2	55
126	Robotic disassembly sequence planning using enhanced discrete bees algorithm in remanufacturing. <i>International Journal of Production Research</i> , 2018 , 56, 3134-3151	7.8	51
125	Capacity Analysis of UAV Communications: Cases of Random Trajectories. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7564-7576	6.8	49
124	Hybrid congestion control for high-speed networks. <i>Journal of Network and Computer Applications</i> , 2011 , 34, 1416-1428	7.9	48
123	Human-robot collaboration in disassembly for sustainable manufacturing. <i>International Journal of Production Research</i> , 2019 , 57, 4027-4044	7.8	48
122	An improved multi-objective discrete bees algorithm for robotic disassembly line balancing problem in remanufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 3937-3962	7.3	45
121	Disassembly sequence planning: Recent developments and future trends. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1450-1471	2.4	45
120	Intelligent Supply Chain Integration and Management Based on Cloud of Things. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 624839	1.7	44
119	Disassembly sequence planning using discrete Bees algorithm for human-robot collaboration in remanufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 62, 101860	9.2	42
118	A Reconfigurable Modeling Approach for Digital Twin-based Manufacturing System. <i>Procedia CIRP</i> , 2019 , 83, 118-125	1.8	38
117	Perception data-driven optimization of manufacturing equipment service scheduling in sustainable manufacturing. <i>Journal of Manufacturing Systems</i> , 2016 , 41, 86-101	9.1	38
116	Joint Sensing Duration Adaptation, User Matching, and Power Allocation for Cognitive OFDM-NOMA Systems. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 1269-1282	9.6	37
115	Collaborative optimization of robotic disassembly sequence planning and robotic disassembly line balancing problem using improved discrete Bees algorithm in remanufacturing?. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 61, 101829	9.2	33
114	A function block based cyber-physical production system for physical human-robot interaction. <i>Journal of Manufacturing Systems</i> , 2018 , 48, 12-23	9.1	27

113	Condition monitoring towards energy-efficient manufacturing: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3395-3415	3.2	25
112	A case study in human-robot collaboration in the disassembly of press-fitted components. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020 , 234, 654-664	2.4	24
111	Digital twin-enabled reconfigurable modeling for smart manufacturing systems. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 1-25	4.3	23
110	Identification and optimal selection of temperature-sensitive measuring points of thermal error compensation on a heavy-duty machine tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 345-353	3.2	21
109	Dynamic Modeling of Manufacturing Equipment Capability Using Condition Information in Cloud Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015 , 137,	3.3	20
108	Dynamic risk assessment and active response strategy for industrial human-robot collaboration. <i>Computers and Industrial Engineering</i> , 2020 , 141, 106302	6.4	19
107	Digital twin-based industrial cloud robotics: Framework, control approach and implementation. <i>Journal of Manufacturing Systems</i> , 2021 , 58, 196-209	9.1	19
106	Quality of service in manufacturing networks: a service framework and its implementation. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 63, 1227-1237	3.2	17
105	Energy-Efficient Joint Sensing Duration, Detection Threshold, and Power Allocation Optimization in Cognitive OFDM Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 8339-8352	9.6	14
104	Joint Trajectory Optimization and User Scheduling for Rotary-Wing UAV-Enabled Wireless Powered Communication Networks. <i>IEEE Access</i> , 2019 , 7, 181369-181380	3.5	14
103	Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 2051-2065	10.7	14
102	Position Prediction Based Fast Beam Tracking Scheme for Multi-User UAV-mmWave Communications 2019 ,		13
101	Energy consumption modeling of industrial robot based on simulated power data and parameter identification. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401877385	1.2	13
100	Dynamic and unified modelling of sustainable manufacturing capability for industrial robots in cloud manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 2753-2771	3.2	13
99	Modeling of Digital Twin Workshop Based on Perception Data. <i>Lecture Notes in Computer Science</i> , 2017 , 3-14	0.9	13
98	Deep reinforcement learning-based safe interaction for industrial human-robot collaboration using intrinsic reward function. <i>Advanced Engineering Informatics</i> , 2021 , 49, 101360	7.4	13
97	Dynamic Modeling of Manufacturing Capability for Robotic Disassembly in Remanufacturing. <i>Procedia Manufacturing</i> , 2017 , 10, 15-25	1.5	12
96	Energy Efficiency Maximization for Relay-Assisted WPCN: Joint Time Duration and Power Allocation. <i>IEEE Access</i> , 2018 , 6, 78297-78307	3.5	12

95	Throughput Optimization for Cognitive UAV Networks: A Three-Dimensional-Location-Aware Approach. <i>IEEE Wireless Communications Letters</i> , 2020 , 1-1	5.9	11
94	Data-Cognition-Empowered Intelligent Wireless Networks: Data, Utilities, Cognition Brain, and Architecture. <i>IEEE Wireless Communications</i> , 2018 , 25, 56-63	13.4	11
93	A service-oriented spectrum allocation algorithm using enhanced PSO for cognitive wireless networks. <i>Computer Networks</i> , 2014 , 74, 81-91	5.4	11
92	Simultaneous wireless information and power transfer for cognitive two-way relaying networks 2014 ,		11
91	An experimental human-robot collaborative disassembly cell. <i>Computers and Industrial Engineering</i> , 2021 , 155, 107189	6.4	11
90	Manufacturing Capability Assessment for Human-Robot Collaborative Disassembly Based on Multi-Data Fusion. <i>Procedia Manufacturing</i> , 2017 , 10, 26-36	1.5	10
89	A Discrete Hybrid Bees Algorithm for Service Aggregation Optimal Selection in Cloud Manufacturing. <i>Lecture Notes in Computer Science</i> , 2013 , 110-117	0.9	10
88	Robotic Task Oriented Knowledge Graph for Human-Robot Collaboration in Disassembly. <i>Procedia CIRP</i> , 2019 , 83, 105-110	1.8	9
87	Distributed Cooperative Multicast in Cognitive Multi-Relay Multi-Antenna Systems. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 288-292	3.2	9
86	Position-Attitude Prediction Based Beam Tracking for UAV mmWave Communications 2019 ,		9
85	A distributed multiple description coding multicast resource allocation scheme in OFDM-based cognitive radio networks 2013 ,		9
84	Human-Robot Collaborative Manufacturing using Cooperative Game: Framework and Implementation. <i>Procedia CIRP</i> , 2018 , 72, 87-92	1.8	9
83	Simultaneous information and power transfer for relay-assisted cognitive radio networks 2014 ,		8
82	Spectrum allocation optimization for Cognitive Radio networks using Binary Firefly Algorithm 2014 ,		8
81	Industrial Cloud Robotics Towards Sustainable Manufacturing 2016 ,		8
80	Energy-Angle Domain Initial Access and Beam Tracking in Millimeter Wave V2X Communications. <i>IEEE Access</i> , 2019 , 7, 9340-9350	3.5	8
79	Service Platform for Robotic Disassembly Planning in Remanufacturing. <i>Journal of Manufacturing Systems</i> , 2020 , 57, 338-356	9.1	7
78	Lower-Complexity Power Allocation for LTE-U Systems: A Successive Cap-Limited Waterfilling Method 2015 ,		7

77	Human-robot collaborative disassembly line balancing considering the safe strategy in remanufacturing. <i>Journal of Cleaner Production</i> , 2021 , 324, 129158	10.3	7
76	An intelligent service matching method for mechanical equipment condition monitoring using the fibre Bragg grating sensor network. <i>Enterprise Information Systems</i> , 2017 , 11, 284-309	3.5	6
75	Collaborative Optimization of Service Scheduling for Industrial Cloud Robotics Based on Knowledge Sharing. <i>Procedia CIRP</i> , 2019 , 83, 132-138	1.8	6
74	Multi-Antenna Channel Interpolation via Tucker Decomposed Extreme Learning Machine. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 7160-7163	6.8	6
73	Radar Sensing-Throughput Tradeoff for Radar Assisted Cognitive Radio Enabled Vehicular Ad-Hoc Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7483-7492	6.8	6
72	Energy-efficient transmission with cooperative spectrum sensing in cognitive radio networks 2013 ,		6
71	A Multiuser Manufacturing Resource Service Composition Method Based on the Bees Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 780352	3	6
70	Empirical analysis of ZigBee and WiFi coexistence 2014 ,		6
69	A Two-Level Distributed Sub-Carrier Allocation Algorithm Based on Ant Colony Optimization in OFDMA Systems 2010 ,		6
68	Energy-Efficient Design for Massive MIMO With Hardware Impairments. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 843-857	9.6	6
67	Energy Condition Perception and Big Data Analysis for Industrial Cloud Robotics. <i>Procedia CIRP</i> , 2017 , 61, 370-375	1.8	5
66	A Stable Routing Protocol for Highway Mobility over Vehicular Ad-Hoc Networks 2015 ,		5
65	Underlaid-D2D-assisted cooperative multicast based on social networks. <i>Peer-to-Peer Networking and Applications</i> , 2016 , 9, 923-935	3.1	5
64	Outage Probability Analysis of DF Relay Networks with RF Energy Harvesting 2015 ,		5
63	QoE Based Spectrum Allocation Optimization Using Bees Algorithm in Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , 2015 , 327-338	0.9	5
62	Performance analysis and optimization of DRX mechanism in LTE 2012 ,		5
61	A Cyber-Physical System for Public Environment Perception and Emergency Handling 2011 ,		5
60	Algorithms for optimal resource allocation in heterogeneous cognitive radio networks 2009 ,		5

59	Hybrid one-way delay estimation for networked control system. <i>Advances in Engineering Software</i> , 2010 , 41, 705-711	3.6	5
58	Task-level decision-making for dynamic and stochastic human-robot collaboration based on dual agents deep reinforcement learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 115, 3533-3552	3.2	5
57	Interlocking problems in disassembly sequence planning. <i>International Journal of Production Research</i> , 2021 , 59, 4723-4735	7.8	5
56	Two-Plus-One Cognitive Cooperation Based on Energy Harvesting and Spatial Multiplexing. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 7589-7593	6.8	4
55	Energy-Efficient Simultaneous Information and Power Transfer in OFDM-Based CRNs 2015 ,		4
54	Multi-layer based multi-path routing algorithm for maximizing spectrum availability. <i>Wireless Networks</i> , 2018 , 24, 897-909	2.5	4
53	Ecology-Based Coexistence Mechanism in Heterogeneous Cognitive Radio Networks 2015 ,		4
52	Joint overlay and underlay resource allocation with weighted fairness in OFDM-based cognitive radio systems. <i>International Journal of Communication Systems</i> , 2015 , 28, 1692-1708	1.7	4
51	An Auction Approach to Resource Allocation in OFDM-Based Cognitive Radio Networks 2012 ,		4
50	Unreliable transport protocol using congestion control for high-speed networks. <i>Journal of Systems and Software</i> , 2010 , 83, 2642-2652	3.3	4
49	Adaptive Support-Weight Stereo-Matching Approach with Two Disparity Refinement Steps. <i>IETE Journal of Research</i> , 2019 , 65, 310-319	0.9	4
48	Survey on coexistence of heterogeneous wireless networks in 2.4 GHz and TV white spaces. <i>International Journal of Distributed Sensor Networks</i> , 2017 , 13, 155014771770396	1.7	3
47	Open Industrial Knowledge Graph Development for Intelligent Manufacturing Service Matchmaking 2017 ,		3
46	Dynamic Manufacturing Capability Assessment of Industrial Robots Based on Feedback Information in Cloud Manufacturing 2017 ,		3
45	Energy-efficient power and sensing/transmission duration optimization with cooperative sensing in cognitive radio networks 2014 ,		3
44	A bio-inspired approach for cognitive radio networks. <i>Science Bulletin</i> , 2012 , 57, 3723-3730		3
43	A Practical Energy Modeling Method for Industrial Robots in Manufacturing. <i>Lecture Notes in Computer Science</i> , 2017 , 25-36	0.9	3
42	Data-Driven Beam Management with Angular Domain Information for mmWave UAV Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	3

41	Joint Subcarrier Assignment and Downlink-Uplink Time-Power Allocation for Wireless Powered OFDM-NOMA Systems 2018 ,		3
40	A closed-loop brain-computer interface with augmented reality feedback for industrial human-robot collaboration. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3-2	3
39	Energy Efficiency Optimization in OFDM-Based Cognitive Radio Systems: Impact of Power Amplifiers 2015 ,		2
38	Cross-Layer Optimization Model Toward Service-Oriented Robotic Manufacturing Systems. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3-3	2
37	Outage Probability Analysis of DF Relay Networks with RF Energy Harvesting 2014 ,		2
36	Joint Dynamic Spectrum Access and Multi-Relay Selection: A Matching-Theory-Based Approach 2017 ,		2
35	Trust connectivity analysis in overlaid unmanned aerial vehicle networks 2017 ,		2
34	Performance Enhancement of TCP in Mobile IP Based Networks 2012 ,		2
33	A Beamforming Algorithm Based on Interference Pricing for the MISO Interference Channel 2010 ,		2
32	An interoperable knowledge base for manufacturing resource and service capability. <i>International Journal of Manufacturing Research</i> , 2017 , 12, 20	0.4	2
31	Towards Shared Autonomy Framework for Human-Aware Motion Planning in Industrial Human-Robot Collaboration 2020 ,		2
30	OTFS Based Receiver Scheme with Multi-Antennas in High-Mobility V2X Systems 2020 ,		2
29	Energy-efficient concurrent assessment of industrial robot operation based on association rules in manufacturing 2018 ,		2
28	Energy Efficient Power Allocation in OFDM-Based CRNs with Cyclic Prefix Power Transfer 2015 ,		1
27	Energy-Efficient Power Loading with Intercarrier and Intersymbol Interference Considerations for Cognitive OFDM Systems 2015 ,		1
26	Scheduling of Robotic Disassembly in Remanufacturing Using Bees Algorithms 2020 , 257-298		1
25	Autonomous remanufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 1	3-2	1
24	Capacity Maximization in Full-Duplex Cognitive Radio Systems With Non-Slotted Primary User State Change. <i>IEEE Communications Letters</i> , 2018 , 22, 1890-1893	3-8	1

23	On-demand ecology-inspired spectrum allocation mechanism for heterogeneous cognitive radio networks. <i>Telecommunication Systems</i> , 2017 , 66, 589-601	2.3	1
22	Joint power splitting and resource allocation with QoS guarantees in RF-harvesting-powered cognitive OFDM relay systems 2015 ,		1
21	Service-oriented sustainable manufacturing: Framework and Methodologies 2014 ,		1
20	An Enhanced Tracking Algorithm for Distributed Encoding Fiber Bragg Grating Sensor Network. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 823029	1.7	1
19	Energy-efficient multicast resource allocation based on beamforming technique 2013 ,		1
18	A nash bargaining solution based cooperation pattern for open spectrum cognitive radio networks 2010 ,		1
17	QoS modeling and analysis for manufacturing networks: A service framework 2009 ,		1
16	An ontology self-learning approach for CNC machine capability information integration and representation in cloud manufacturing. <i>Journal of Industrial Information Integration</i> , 2021 , 25, 100300	7	1
15	REF Codes: Intermediate Performance Oriented Fountain Codes With Feedback. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 13148-13164	6.8	1
14	Machine Learning-Based Energy-Spectrum Two-Dimensional Cognition in Energy Harvesting CRNs. <i>IEEE Access</i> , 2020 , 8, 158911-158927	3.5	1
13	Cooperative Control of Physical Collision and Transmission Power for UAV Swarm: A Dual-Fields Enabled Approach. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
12	Energy-Efficient Multi-Level Collaborative Optimization for Robotic Manufacturing Systems. <i>Procedia CIRP</i> , 2018 , 72, 316-321	1.8	1
11	Complexity optimization based on the order of coalition formation in cooperative spectrum sensing in cognitive radio networks. <i>Journal of Industrial and Production Engineering</i> , 2018 , 35, 421-431	1	1
10	Knowledge Sharing and Evolution of Industrial Cloud Robotics 2018 ,		1
9	Robot learning towards smart robotic manufacturing: A review. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 77, 102360	9.2	1
8	Dynamic assessment of sustainable manufacturing capability based on correlation relationship for industrial cloud robotics. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	0
7	Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
6	Analysis of D2D-Aided Underlying Uplink Cellular Networks Using Poisson Hole Process. <i>IEEE Access</i> , 2021 , 9, 12521-12532	3.5	0

- 5 Resource Allocation for MDC Multicast in CRNs with Imperfect Spectrum Sensing and Channel Feedback. *IEICE Transactions on Communications*, **2015**, E98.B, 335-343 0.5
- 4 Energy Saving for Cognitive Multicast OFDM Systems: A Time-Frequency Two-Dimensional Method. *IEICE Transactions on Communications*, **2015**, E98.B, 974-983 0.5
- 3 Inter-carrier-Interference-Aware Energy Saving for High-Mobility Cognitive OFDM Systems. *IEICE Transactions on Communications*, **2018**, E101.B, 203-212 0.5
- 2 Optimal Power Splitting and Power Allocation in EH-Enabled Multi-Link Multi-Antenna Relay Networks. *IEICE Transactions on Communications*, **2017**, E100.B, 1480-1488 0.5
- 1 Correction to Joint Trajectory Optimization and User Scheduling for Rotary-Wing UAV-Enabled Wireless Powered Communication Networks *IEEE Access*, **2022**, 10, 33855-33855 3.5