Xiaojun Jing

List of Publications by Year
in descending order

125 papers	1,297 citations	516710 16 h-index	395702 33 g-index
126 all docs	126 docs citations	126 times ranked	876 citing authors

#	Article	IF	Citations
1	Integrating Sensing and Communications for Ubiquitous IoT: Applications, Trends, and Challenges. IEEE Network, 2021, 35, 158-167.	6.9	274
2	A Survey of Deep Learning-Based Human Activity Recognition in Radar. Remote Sensing, 2019, 11, 1068.	4.0	172
3	Adversarial Transfer Learning for Deep Learning Based Automatic Modulation Classification. IEEE Signal Processing Letters, 2020, 27, 880-884.	3.6	78
4	Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. IEEE Internet of Things Journal, 2021, 8, 2517-2539.	8.7	78
5	Anti-Intelligent UAV Jamming Strategy via Deep Q-Networks. IEEE Transactions on Communications, 2020, 68, 569-581.	7.8	43
6	Palm vein recognition scheme based on an adaptive Gabor filter. IET Biometrics, 2017, 6, 325-333.	2.5	38
7	Integrated Sensing and Communication-Enabled Predictive Beamforming With Deep Learning in Vehicular Networks. IEEE Communications Letters, 2021, 25, 3301-3304.	4.1	38
8	Wi-Fi Sensing for Joint Gesture Recognition and Human Identification From Few Samples in Human-Computer Interaction. IEEE Journal on Selected Areas in Communications, 2022, 40, 2193-2205.	14.0	35
9	Programmable Weight Phased-Array Transmission for Secure Millimeter-Wave Wireless Communications. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 399-413.	10.8	29
10	AMCRN: Few-Shot Learning for Automatic Modulation Classification. IEEE Communications Letters, 2022, 26, 542-546.	4.1	26
11	DropConnect Regularization Method with Sparsity Constraint for Neural Networks. Chinese Journal of Electronics, 2016, 25, 152-158.	1.5	24
12	Semisupervised Human Activity Recognition With Radar Micro-Doppler Signatures. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	24
13	A Mutiscale Residual Attention Network for Multitask Learning of Human Activity Using Radar Micro-Doppler Signatures. Remote Sensing, 2019, 11, 2584.	4.0	23
14	Interference Alignment Based Spectrum Sharing for MIMO Radar and Communication Systems. , 2018, , .		22
15	Human Motion Recognition With Limited Radar Micro-Doppler Signatures. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6586-6599.	6.3	22
16	Robust Collaborative Spectrum Sensing Using PHY-Layer Fingerprints in Mobile Cognitive Radio Networks. IEEE Communications Letters, 2017, 21, 1063-1066.	4.1	18
17	Phase Retrieval Motivated Nonlinear MIMO Communication With Magnitude Measurements. IEEE Transactions on Wireless Communications, 2017, 16, 5452-5466.	9.2	18
18	Fixed Region Beamforming Using Frequency Diverse Subarray for Secure mmWave Wireless Communications. IEEE Transactions on Information Forensics and Security, 2020, 15, 2706-2721.	6.9	16

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19	Performance of Multi-Cell mmWave NOMA Networks With Base Station Cooperation. IEEE Communications Letters, 2021, 25, 442-445.	4.1	14
20	GLCM-based fingerprint recognition algorithm. , 2011, , .		12
21	A downlink ICIC method based on region in the LTE-Advanced system. , 2010, , .		11
22	Principle component analysis based cooperative spectrum sensing in cognitive radio. , 2016, , .		11
23	LSTM based Human Activity Classification on Radar Range Profile. , 2019, , .		11
24	Dynamic Rotated Angular Beamforming Using Frequency Diverse Phased-Array for Secure MmWave Wireless Communications. Electronics (Switzerland), 2020, 9, 10.	3.1	11
25	Machine Learning-Based 5G RAN Slicing for Broadcasting Services. IEEE Transactions on Broadcasting, 2022, 68, 295-304.	3.2	11
26	Throughput performance improvement in cognitive radio networks based on spectrum prediction. , 2016, , .		10
27	Performance Analysis of Agile-Beam NOMA in Millimeter Wave Networks. IEEE Access, 2020, 8, 6638-6649.	4.2	10
28	Social Interaction Assisted Resource Sharing Scheme for Device-to-Device Communication Towards Green Internet of Things. IEEE Access, 2020, 8, 71652-71661.	4.2	10
29	Interference alignment based precoder-decoder design for radar-communication co-existence. , 2017, , .		9
30	Mutual Information Based Co-Design for Coexisting MIMO Radar and Communication Systems. , 2020, , .		8
31	CNN and DCGAN for Spectrum Sensors over Rayleigh Fading Channel. Wireless Communications and Mobile Computing, 2021, 2021, 1-12.	1.2	8
32	Supervised Domain Adaptation for Few-Shot Radar-Based Human Activity Recognition. IEEE Sensors Journal, 2021, 21, 25880-25890.	4.7	8
33	Unsupervised Domain Adaptation for Human Activity Recognition in Radar. , 2020, , .		7
34	On massive MIMO performance with a pilot assignment approach based on Hungarian method. , 2016, , .		6
35	GraphConvLSTM: Spatiotemporal Learning for Activity Recognition with Wearable Sensors. , 2019, , .		6
36	A Deep-Learning Method for Radar Micro-Doppler Spectrogram Restoration. Sensors, 2020, 20, 5007.	3.8	6

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37	A novel FCNsâ€ConvLSTM network for video salient object detection. International Journal of Circuit Theory and Applications, 2021, 49, 1050-1060.	2.0	6
38	Cross-Domain Gesture Recognition via Learning Spatiotemporal Features in Wi-Fi Sensing. , 2021, , .		6
39	Spectral analysis based fingerprint image enhancement algorithm. , 2010, , .		5
40	FPGA based mixture Gaussian background modeling and motion detection. , 2011, , .		5
41	Combining SURF with MSER for image matching. , 2013, , .		5
42	On using cooperative game theory to solve the wireless scalable video multicasting problem. , 2013, , .		5
43	An Intelligent Human Behavior-Based Reasoning Model for Service Prediction in Smart Home. IEEE Access, 2018, 6, 68535-68544.	4.2	5
44	Pilot Contamination Attack Detection and Defense Strategy in Wireless Communications. IEEE Signal Processing Letters, 2019, 26, 938-942.	3.6	5
45	A Deep Multi-task Network for Activity Classification and Person Identification with Micro-Doppler Signatures. , 2019, , .		5
46	Multistage spectrum sensing scheme with SNR estimation. IET Communications, 2019, 13, 1148-1154.	2.2	5
47	A directional temporal error concealment algorithm for H.264. , 2010, , .		4
48	Low quality fingerprint image enhancement based on Gabor filter. , 2010, , .		4
49	A method of the region of interest extraction based on orientation entropy. , 2011, , .		4
50	An improved reconstruction method for compressive sensing based OFDM channel estimation. , 2013, , .		4
51	Mapping millimeter wave propagation to 5G physical layer: A brief review and look foward. , 2016, , .		4
52	An automatic modulation classification network for IoT terminal spectrum monitoring under zero-sample situations. Eurasip Journal on Wireless Communications and Networking, 2022, 2022, .	2.4	4
53	A Dynamic Temporal Error Concealment Algorithm for H.264. , 2010, , .		3
54	An adaptive fingerprint image segmentation algorithm based on multiple features. , 2010, , .		3

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55	Genetic Algorithm for Scheduling of Interactive Tasks in Simulation Grid. , 2010, , .		3
56	Sparse channel estimation in OFDM systems using improved smooth L0 algorithm. , 2014, , .		3
57	Spectrum sensing based on adaptive sampling of received signal. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	3
58	BiGRU Network for Human Activity Recognition in High Resolution Range Profile. , 2019, , .		3
59	Computation‐constrained spectrum sensing in IoT‐based scenarios. IET Communications, 2020, 14, 3631-3638.	2.2	3
60	WirelessID: Device-Free Human Identification Using Gesture Signatures in CSI. , 2021, , .		3
61	Spectrum sensing based on adversarial transfer learning. IET Communications, 2022, 16, 2059-2069.	2.2	3
62	An adaptive location algorithm for flexible indoor environment. , 2011, , .		2
63	Hierarchical fusion-based cooperative spectrum sensing scheme in cognitive radio networks. , 2016, , .		2
64	Study on Magnetic Domain Structure of Co/Pt Dots Array. Chinese Journal of Electronics, 2017, 26, 654-657.	1.5	2
65	Inverted antenna subset transmission technique for secure millimeter-wave wireless communication. , 2017, , .		2
66	Multi-Level Attentional Network for Aspect-based Sentiment Analysis. , 2020, , .		2
67	Continuous Variable Quantum Secret Sharing with Fairness. Applied Sciences (Switzerland), 2020, 10, 189.	2.5	2
68	Rebuttal to â€œComments on â€˜Fixed Region Beamforming Using Frequency Diverse Subarray for Secure MmWave Wireless Communicationsâ€™â€™. IEEE Transactions on Information Forensics and Security, 2021, 16, 2854-2855.	6.9	2
69	Spectrum sensing based on deep convolutional generative adversarial networks. , 2021, , .		2
70	High Altitude Platform Station Communication as an Enabler for Massive Internet of Things. , 2020, , .		2
71	Particle Filter based Predictive Beamforming for Integrated Vehicle Sensing and Communication. , 2021, , .		2
72	Precoder and Decoder Co-Designs for Radar and Communication Spectrum Sharing. Sensors, 2022, 22, 2619.	3.8	2

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73	Edge detection based on decision-level information fusion and its application in hybrid image filtering. , 0, , .		1
74	Adaptive hysteresis selection method in advanced E-UTRAN. , 2010, , .		1
75	A novel algorithm for fingerprint singular points detection based on vecrot orthogonal theory. , 2011, , .		1
76	A variable parameter efficient μ-law improved proportionate affine projection algorithm. , 2011, , .		1
77	A Tree Pruning Algorithm for MIMO Sphere Decoding Based on Path Metric. , 2012, , .		1
78	Range Migration Subaperture Algorithm for spotlight SAR in near space. , 2012, , .		1
79	P2P traffic identification based on transfer learning. , 2013, , .		1
80	A Video-distribution Adaptive SON Architecture for HetNets in future cellular network. , 2014, , .		1
81	Variable length dominant Gabor local binary pattern (VLD-GLBP) for face recognition. , 2014, , .		1
82	A glowworm swarm optimization based multi-constraint multicast tree spanning algorithm. , 2014, , .		1
83	An improved energy detection algorithm based on signal correlation in cognitive radio. , 2016, , .		1
84	Frequency Selective Convolutional Neural Networks for Traffic Sign Recognition. , 2016, , .		1
85	Wireless Physical Layer Characteristics Based Random Number Generator: Hijack Attackers. , 2017, , .		1
86	Active Spoofing Attack Detection: An Eigenvalue Distribution and Forecasting Approach. , 2018, , .		1
87	Strategy on SS. IET Communications, 2019, 13, 1465-1471.	2.2	1
88	An Agile-Beam NOMA Scheme in Millimeter Wave Networks. IEEE Access, 2019, 7, 178187-178200.	4.2	1
89	Analysis of the Multiplexing Method of New System Navigation Signals of GPS III First Star L1 Frequency in China's Regional. Sensors, 2019, 19, 5360.	3.8	1
90	Analysis of Quasi-Zenith Satellite System Signal Acquisition and Multiplexing Characteristics in China Area. Sensors, 2020, 20, 1547.	3.8	1

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91	SNR Estimation of UAV Control Signal Based on Convolutional Neural Network. , 2021, , .		1
92	SferNet: A Novel Network for Static Facial Emotion Recognition. , 2021, , .		1
93	Device-Free Human Identification Using Behavior Signatures in WiFi Sensing. Sensors, 2021, 21, 5921.	3.8	1
94	Accurate Solution of Electromagnetic Problems with Thin Conducting Objects. , 2019, , .		1
95	Deep Learning-Aided Receiver Against Nonlinear Distortion of HPA in OFDM Systems. , 2021, , .		1
96	Classification Model of Wireless Signals Based on Higher-order Statistics. , 2020, , .		1
97	Towards Device-Free Cross-Scene Gesture Recognition from Limited Samples in Integrated Sensing and Communication. , 2022, , .		1
98	Non-Uniform LDPC for Multi-Bitplane in Distributed Video Coding. , 2009, , .		0
99	Side-information-adaptive LDPC coding for distributed multi-view video coding over wireless sensor networks. , 2009, , .		0
100	An approach to improve the ZS thinning algorithm. , 2009, , .		0
101	Wavelet packet basis selection for JPEG2000 based on EBCOT modeling. , 2010, , .		0
102	Fingerprint reference point location based on multi-scale analysis of wavelet. , 2010, , .		0
103	Orthogonality analysis and improvement of MSE-OFDM system. , 2010, , .		0
104	Modeling and simulation of position for the Stratospheric ISAR system. , 2010, , .		0
105	Non-static TTI for UTRA LCR TDD. , 2010, , .		0
106	Scheduling based resource optimization in networked modeling and simulation. , 2011, , .		0
107	A new algorithm of incomplete fingerprint segmentation based on LBP. , 2011, , .		0
108	A novel region-based image segmentation method using SVM and D-S evidence theory. , 2013, , .		0

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109	BEM-Based Reconstruction of Time-Varying Sparse Channel in OFDM Systems. , 2013, , .		0
110	An improvement ISAR range alignment algorithm. , 2013, , .		0
111	An Improved Region Division Allocation of Orthogonal Variable Spreading Factor Code in the Forward Link of WCDMA Network. , 2013, , .		0
112	A Stable Expected Complexity Sphere Detection with IRA Enhancement. , 2013, , .		0
113	Radio link montoring measurements on restricted subframes in heterogeneous LTE-advanced system. , 2013, , .		0
114	An improved channel estimation based on generalized DFT for OFDM system. , 2014, , .		0
115	A novel network based on TD-LTE for counter-terrorism emergency communication in urban area. , 2014, , .		0
116	An improved adaptive user classification algorithm for FFR scheme. , 2014, , .		0
117	Bit allocation for quality scalability coding of H.264/SVC. , 2014, , .		0
118	Frame level rate control based on support vector machine in HEVC. , 2014, , .		0
119	An effective MIMO detection scheme for future wireless HetNet based on MU-MIMO. , 2015, , .		0
120	Dynamic power allocation for spectrum sharing in interference alignment (IA)-based cognitive radio. , 2016, , .		0
121	Deeply-Fused Human Motion Recognition Network in Radar for In-Home Monitoring. , 2019, , .		0
122	UAV Control Signal Detection based on Convolution Neural Network. , 2021, , .		0
123	A Novel Evaluation Scheme for Hypersingular Integrals over Triangular Patches. , 2019, , .		0
124	On the Design of Embedded Smart Home System Based on Internet of Things. , 2021, , .		0
125	Non-Cooperative UAV Detection with Semi-Adaptive Sampling of Control Signal and SNR Estimation. Electronics (Switzerland), 2022, 11, 1815.	3.1	0