Weijie Yuan

List of Publications by Year
in descending order

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68 papers	2,052 citations	236925 25 h-index	330143 37 g-index
68 all docs	68 docs citations	68 times ranked	849 citing authors

#	Article	IF	Citations
1	Orthogonal Time-Frequency Space Modulation: A Promising Next-Generation Waveform. IEEE Wireless Communications, 2021, 28, 136-144.	9.0	208
2	Radar-Assisted Predictive Beamforming for Vehicular Links: Communication Served by Sensing. IEEE Transactions on Wireless Communications, 2020, 19, 7704-7719.	9.2	175
3	A Simple Variational Bayes Detector for Orthogonal Time Frequency Space (OTFS) Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 7976-7980.	6.3	127
4	Bayesian Predictive Beamforming for Vehicular Networks: A Low-Overhead Joint Radar-Communication Approach. IEEE Transactions on Wireless Communications, 2021, 20, 1442-1456.	9.2	113
5	Integrated Sensing and Communication-Assisted Orthogonal Time Frequency Space Transmission for Vehicular Networks. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1515-1528.	10.8	103
6	Performance Analysis of Coded OTFS Systems Over High-Mobility Channels. IEEE Transactions on Wireless Communications, 2021, 20, 6033-6048.	9.2	83
7	Cooperative Joint Localization and Clock Synchronization Based on Gaussian Message Passing in Asynchronous Wireless Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 7258-7273.	6.3	80
8	Transmitter and Receiver Window Designs for Orthogonal Time-Frequency Space Modulation. IEEE Transactions on Communications, 2021, 69, 2207-2223.	7.8	78
9	Data-Aided Channel Estimation for OTFS Systems With a Superimposed Pilot and Data Transmission Scheme. IEEE Wireless Communications Letters, 2021, 10, 1954-1958.	5.0	74
10	Iterative Receivers for Downlink MIMO-SCMA: Message Passing and Distributed Cooperative Detection. IEEE Transactions on Wireless Communications, 2018, 17, 3444-3458.	9.2	64
11	Iterative Receiver Design for FTN Signaling Aided Sparse Code Multiple Access. IEEE Transactions on Wireless Communications, 2020, 19, 915-928.	9.2	57
12	TOA-Based Passive Localization Constructed Over Factor Graphs: A Unified Framework. IEEE Transactions on Communications, 2019, 67, 6952-6965.	7.8	56
13	Hybrid MAP and PIC Detection for OTFS Modulation. IEEE Transactions on Vehicular Technology, 2021, 70, 7193-7198.	6.3	56
14	Off-Grid Channel Estimation With Sparse Bayesian Learning for OTFS Systems. IEEE Transactions on Wireless Communications, 2022, 21, 7407-7426.	9.2	54
15	Iterative Detection for Orthogonal Time Frequency Space Modulation With Unitary Approximate Message Passing. IEEE Transactions on Wireless Communications, 2022, 21, 714-725.	9.2	53
16	Iterative Joint Channel Estimation, User Activity Tracking, and Data Detection for FTN-NOMA Systems Supporting Random Access. IEEE Transactions on Communications, 2020, 68, 2963-2977.	7.8	49
17	Cross Domain Iterative Detection for Orthogonal Time Frequency Space Modulation. IEEE Transactions on Wireless Communications, 2022, 21, 2227-2242.	9.2	47
18	A Novel ISAC Transmission Framework Based on Spatially-Spread Orthogonal Time Frequency Space Modulation. IEEE Journal on Selected Areas in Communications, 2022, 40, 1854-1872.	14.0	45

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19	Learning-Based Predictive Beamforming for UAV Communications With Jittering. IEEE Wireless Communications Letters, 2020, 9, 1970-1974.	5.0	44
20	Expectationâ€“Maximization-Based Passive Localization Relying on Asynchronous Receivers: Centralized Versus Distributed Implementations. IEEE Transactions on Communications, 2019, 67, 668-681.	7.8	40
21	Learning-Based Predictive Beamforming for Integrated Sensing and Communication in Vehicular Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2317-2334.	14.0	40
22	A Hybrid BP-EP-VMP Approach to Joint Channel Estimation and Decoding for FTN Signaling over Frequency Selective Fading Channels. IEEE Access, 2017, 5, 6849-6858.	4.2	36
23	Variational Inference-Based Frequency-Domain Equalization for Faster-Than-Nyquist Signaling in Doubly Selective Channels. IEEE Signal Processing Letters, 2016, 23, 1270-1274.	3.6	32
24	Location-Aware Predictive Beamforming for UAV Communications: A Deep Learning Approach. IEEE Wireless Communications Letters, 2021, 10, 668-672.	5.0	31
25	Time-Domain vs. Frequency-Domain Equalization for FTN Signaling. IEEE Transactions on Vehicular Technology, 2020, 69, 9174-9179.	6.3	30
26	Pilot Design and Optimization for OTFS Modulation. IEEE Wireless Communications Letters, 2021, 10, 1742-1746.	5.0	23
27	Integrated Sensing and Communication Waveform Design With Sparse Vector Coding: Low Sidelobes and Ultra Reliability. IEEE Transactions on Vehicular Technology, 2022, 71, 4489-4494.	6.3	22
28	Frequency-Domain Iterative Message Passing Receiver for Faster-Than-Nyquist Signaling in Doubly Selective Channels. IEEE Wireless Communications Letters, 2016, 5, 584-587.	5.0	19
29	TOA-based passive localization of multiple targets with inaccurate receivers based on belief propagation on factor graph. , 2016, 49, 14-23.		19
30	Distributed Estimation Framework for Beyond 5G Intelligent Vehicular Networks. IEEE Open Journal of Vehicular Technology, 2020, 1, 190-214.	4.9	19
31	Faster-Than-Nyquist Asynchronous NOMA Outperforms Synchronous NOMA. IEEE Journal on Selected Areas in Communications, 2022, 40, 1128-1145.	14.0	17
32	Joint Channel Estimation and Equalization for Index-Modulated Spectrally Efficient Frequency Division Multiplexing Systems. IEEE Transactions on Communications, 2020, 68, 6230-6244.	7.8	15
33	A New Off-grid Channel Estimation Method with Sparse Bayesian Learning for OTFS Systems. , 2021, , .		13
34	A factor graph-based iterative detection of faster-than-Nyquist signaling in the presence of phase noise and carrier frequency offset. , 2017, 63, 25-34.		9
35	Bypassing Channel Estimation for OTFS Transmission: An Integrated Sensing and Communication Solution. , 2021, , .		8
36	Downlink OTFS Non-Orthogonal Multiple Access Receiver Design based on Cross-Domain Detection. , 2022, , .		8

#	Article	IF	Citations
37	Achieving the Performance Bounds for Sensing and Communications in Perceptive Networks: Optimal Bandwidth Allocation. IEEE Wireless Communications Letters, 2022, 11, 1835-1839.	5.0	7
38	A Low-Complexity Energy-Minimization-Based SCMA Detector and Its Convergence Analysis. IEEE Transactions on Vehicular Technology, 2018, 67, 12398-12403.	6.3	6
39	Radar-Assisted Predictive Beamforming for Vehicle-to-Infrastructure Links. , 2020, , .		6
40	Multi-Vehicle Tracking and ID Association Based on Integrated Sensing and Communication Signaling. IEEE Wireless Communications Letters, 2022, 11, 1960-1964.	5.0	6
41	Distributed Passive Localization with Asynchronous Receivers Based on Expectation Maximization. , 2015, , .		5
42	Joint synchronization and localization based on Gaussian belief propagation in sensor networks. , 2015, , .		5
43	Joint channel estimation and decoding in the presence of phase noise over timeâ€selective flatâ€fading channels. IET Communications, 2016, 10, 577-585.	2.2	5
44	Low Complexity Message Passing Receiver for Faster-Than-Nyquist Signaling in Nonlinear Channels. IEEE Access, 2018, 6, 68233-68241.	4.2	5
45	Channel Estimation and User Identification With Deep Learning for Massive Machine-Type Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 10709-10722.	6.3	5
46	Performance Analysis and Window Design for Channel Estimation of OTFS Modulation. , 2021, , .		5
47	Vector Approximate Message Passing Based Iterative Receiver for OTFS System. , 2021, , .		5
48	A Tutorial to Orthogonal Time Frequency Space Modulation for Future Wireless Communications. , 2021, , .		5
49	Joint Radar-Communication-Based Bayesian Predictive Beamforming for Vehicular Networks. , 2020, , .		5
50	On the Potential of Spatially-Spread Orthogonal Time Frequency Space Modulation for ISAC Transmissions. , 2022, , .		5
51	Variational message passing for joint localization and synchronization in wireless sensor networks. , 2014, , .		4
52	Factor graph approach for joint passive localization and receiver synchronization in wireless sensor networks. , 2016, , .		4
53	On the Achievable Rates of Uplink NOMA with Asynchronized Transmission. , 2021, , .		4
54	Message Passing Receiver for SEFDM Signaling Over Multipath Channels. , 2019, , .		3

#	Article	IF	Citations
55	Joint Data and Active User Detection for Grant-free FTN-NOMA in Dynamic Networks. , 2020, , .		3
56	On the Performance of Coded OTFS Modulation over High-Mobility Channels. , 2021, , .		3
57	Gaussian Message Passing Based Passive Localization in the Presence of Receiver Detection Failures. , 2018, , .		2
58	Hybrid BP-EP Based Iterative Receiver for Faster-Than-Nyquist with Index Modulation. , 2019, , .		2
59	Particle swarm optimization-based particle filter for cooperative localization in wireless networks. , 2013, , .		1
60	Passive localization with inaccurate receivers based on Gaussian belief propagation on factor graph. , 2014, , .		1
61	A low-complexity cooperative localization algorithm based on variational message passing in wireless networks. , 2014, , .		1
62	A graphical model based frequency domain equalization for FTN signaling in doubly selective channels. , 2016, , .		1
63	Parametric Message-Passing for Joint Localization and Synchronization in Cooperative Networks. , 2020, , .		1
64	Distributed Passive Localization with Asynchronous Receivers Based on Expectation Maximization. , 2014, , .		0
65	Expectation maximization-based passive localization in asynchronous wireless networks. , 2015, , .		0
66	Factor graph and damped expectation propagation based passive localization. , 2016, , .		0
67	Hybrid Message Passing Based Low Complexity Receiver for SCMA System over Frequency Selective Channels. , 2017, , .		0
68	Cycle-Slip Detection and Correction for Carrier Phase Synchronization in Coded Systems. IEEE Communications Letters, 2021, 25, 113-116.	4.1	0