Wei-Xiao Meng

List of Publications by Year
in descending order

134 papers	1,847 citations	257450 24 h-index	345221 36 g-index
134 all docs	134 docs citations	134 times ranked	1932 citing authors

#	Article	IF	Citations
1	Machine-to-Machine Communications in Ultra-Dense Networksâ€”A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 1478-1503.	39.4	106
2	Video-based Facial Micro-Expression Analysis: A Survey of Datasets, Features and Algorithms. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	82
3	Optimal Power Allocation for SCMA Downlink Systems Based on Maximum Capacity. IEEE Transactions on Communications, 2019, 67, 1480-1489.	7.8	76
4	A general tensor representation framework for cross-view gait recognition. Pattern Recognition, 2019, 90, 87-98.	8.1	74
5	SCMA codebook design based on constellation rotation. , 2017, , .		70
6	Dense-Device-Enabled Cooperative Networks for Efficient and Secure Transmission. IEEE Network, 2018, 32, 100-106.	6.9	63
7	Crowdsourcing and Multisource Fusion-Based Fingerprint Sensing in Smartphone Localization. IEEE Sensors Journal, 2018, 18, 3236-3247.	4.7	56
8	Coupled Bilinear Discriminant Projection for Cross-View Gait Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 734-747.	8.3	49
9	On Precoding and Energy Efficiency of Full-Duplex Millimeter-Wave Relays. IEEE Transactions on Wireless Communications, 2019, 18, 1943-1956.	9.2	45
10	A Survey on Complementary-Coded MIMO CDMA Wireless Communications. IEEE Communications Surveys and Tutorials, 2015, 17, 52-69.	39.4	44
11	Automatic Precision Control Positioning for Wireless Sensor Network. IEEE Sensors Journal, 2016, 16, 2140-2150.	4.7	39
12	Human Localization Using Multi-Source Heterogeneous Data in Indoor Environments. IEEE Access, 2017, 5, 812-822.	4.2	37
13	Dual-ellipse fitting approach for robust gait periodicity detection. Neurocomputing, 2012, 79, 173-178.	5.9	35
14	Performance Analysis of Downlink Coordinated Multipoint Joint Transmission in Ultra-Dense Networks. IEEE Network, 2017, 31, 106-114.	6.9	35
15	UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. IEEE Internet of Things Journal, 2021, 8, 13222-13236.	8.7	32
16	An improved biometrics technique based on metric learning approach. Neurocomputing, 2012, 97, 44-51.	5.9	31
17	Full-Duplex Relay-Assisted Macrocell with Millimeter Wave Backhauls: Framework and Prospects. IEEE Network, 2019, 33, 190-197.	6.9	30
18	Optimal Power Allocation for Dual-Hop Full-Duplex Decode-and-Forward Relay. IEEE Communications Letters, 2015, 19, 471-474.	4.1	29

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19	Toward Ubiquitous LBS: Multi-Radio Localization and Seamless Positioning. IEEE Wireless Communications, 2016, 23, 107-113.	9.0	29
20	Improve the Security of GNSS Receivers Through Spoofing Mitigation. IEEE Access, 2017, 5, 21057-21069.	4.2	29
21	Multi-User Interference Cancellation in Complementary Coded CDMA with Diversity Gain. IEEE Wireless Communications Letters, 2013, 2, 303-306.	5.0	28
22	An Agile Confidential Transmission Strategy Combining Big Data Driven Cluster and OBF. IEEE Transactions on Vehicular Technology, 2017, 66, 10259-10270.	6.3	28
23	Physical Layer Security Assisted Computation Offloading in Intelligently Connected Vehicle Networks. IEEE Transactions on Wireless Communications, 2021, 20, 3555-3570.	9.2	28
24	Joint Beam and Resource Allocation in 5G mmWave Small Cell Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 10272-10277.	6.3	27
25	BSDP: Big Sensor Data Preprocessing in Multi-Source Fusion Positioning System Using Compressive Sensing. IEEE Transactions on Vehicular Technology, 2019, 68, 8866-8880.	6.3	26
26	Symbol Cyclic Shift Equalization Algorithm â€“ A CP-free OFDM/OFDMA System Design. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	23
27	Energy-Efficient Hybrid Precoder With Adaptive Overlapped Subarrays for Large-Array mmWave Systems. IEEE Transactions on Wireless Communications, 2020, 19, 1484-1502.	9.2	23
28	Physical-Layer Network Coding Systems With MFSK Modulation. IEEE Transactions on Vehicular Technology, 2016, 65, 204-213.	6.3	22
29	Service-Oriented Fair Resource Allocation and Auction for Civil Aircrafts Augmented Space-Air-Ground Integrated Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 13658-13672.	6.3	22
30	Secrecy Rate Maximization via Radio Resource Allocation in Cellular Underlaying V2V Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 7281-7294.	6.3	22
31	Coupled source domain targetized with updating tag vectors for micro-expression recognition. Multimedia Tools and Applications, 2018, 77, 3105-3124.	3.9	19
32	Multiuser-Interference-Free Spaceâ€“Time Spreading MIMO Systems Based on Three-Dimensional Complementary Codes. IEEE Systems Journal, 2015, 9, 45-57.	4.6	17
33	Downlink Coordinated Multi-Point Transmission in Ultra-Dense Networks with Mobile Edge Computing. IEEE Network, 2019, 33, 152-159.	6.9	17
34	Convolutional-Neural-Network-Based Detection Algorithm for Uplink Multiuser Massive MIMO Systems. IEEE Access, 2020, 8, 64250-64265.	4.2	17
35	Channel-Correlation-Enabled Transmission Optimization for MISO Wiretap Channels. IEEE Transactions on Wireless Communications, 2021, 20, 858-870.	9.2	17
36	Reinforcement Learning-Based Energy-Efficient Data Access for Airborne Users in Civil Aircrafts-Enabled SAGIN. IEEE Transactions on Green Communications and Networking, 2021, 5, 934-949.	5.5	16

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37	Wi-Fi Fingerprint-Based Indoor Mobile User Localization Using Deep Learning. Wireless Communications and Mobile Computing, 2021, 2021, 1-12.	1.2	16
38	A Complete Complementary Coded MIMO System and Its Performance in Multipath Channels. IEEE Wireless Communications Letters, 2014, 3, 181-184.	5.0	15
39	Power Allocation for Distributed Antenna Systems in Frequency-Selective Fading Channels. IEEE Transactions on Communications, 2016, 64, 212-222.	7.8	15
40	Robust Efficient Hybrid Pre-Coding Scheme for mmWave Cell-Free and User-Centric Massive MIMO Communications. IEEE Transactions on Wireless Communications, 2021, 20, 8006-8022.	9.2	15
41	A Localization Based Routing Protocol for Dynamic Underwater Sensor Networks. , 2016, , .		14
42	Multiple-Jammer-Aided Secure Transmission With Receiver-Side Correlation. IEEE Transactions on Wireless Communications, 2019, 18, 3093-3103.	9.2	14
43	Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fadingâ€"A Physical Layer Security Approach. IEEE Systems Journal, 2020, 14, 2121-2132.	4.6	14
44	Packet Loss Recovery Scheme with Uniquely-Decodable Codes for Streaming Multimedia over P2P Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 142-154.	14.0	13
45	Civil Aircrafts Augmented Spaceâ€"Airâ€"Ground-Integrated Vehicular Networks: Motivation, Breakthrough, and Challenges. IEEE Internet of Things Journal, 2022, 9, 5670-5683.	8.7	13
46	Random Forest Based Coarse Locating and KPCA Feature Extraction for Indoor Positioning System. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	12
47	A Spatial Division Clustering Method and Low Dimensional Feature Extraction Technique Based Indoor Positioning System. Sensors, 2014, 14, 1850-1876.	3.8	11
48	Semidefinite further relaxation on likelihood ascent search detection algorithm for highâ€•order modulation in massive MIMO system. IET Communications, 2017, 11, 801-808.	2.2	11
49	Robust Task Scheduling for Delay-Aware IoT Applications in Civil Aircraft-Augmented SAGIN. IEEE Transactions on Communications, 2022, 70, 5368-5385.	7.8	11
50	Joint Pre-Equalization and Adaptive Combining for CC-CDMA Systems Over Asynchronous Frequency-Selective Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5175-5184.	6.3	10
51	Optimal power allocation for a full-duplex multicarrier decode-forward relay system with or without direct link. Signal Processing, 2017, 137, 177-191.	3.7	10
52	Precoding Design for Full-Duplex Transmission in Millimeter Wave Relay Backhaul. Mobile Networks and Applications, 2018, 23, 1416-1426.	3.3	10
53	Transmission Mechanism and Performance Analysis of Multiuser Opportunistic Beamforming in Rayleigh and Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 9459-9473.	6.3	10
54	Network Densification and Path-Loss Models Versus UDN Performanceâ€"A Unified Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4058-4071.	9.2	10

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55	Rapid deployment of APs in WLAN indoor positioning system. , 2011, , .		9
56	EM-Based Adaptive Frequency Domain Estimation of Doppler Shifts with CRLB Analysis for CDMA Systems. IEEE Transactions on Communications, 2012, 60, 198-208.	7.8	9
57	Factor graph based multi-source data fusion for wireless localization. , 2016, , .		9
58	Voronoi Diagram and Crowdsourcing-Based Radio Map Interpolation for GRNN Fingerprinting Localization Using WLAN. Sensors, 2018, 18, 3579.	3.8	9
59	AN-Aided Secure Beamforming Design for Correlated MISO Wiretap Channels. IEEE Communications Letters, 2019, 23, 628-631.	4.1	9
60	Proportional-Fair Resource Allocation for User-Centric Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 1549-1561.	6.3	9
61	A Joint Iterative Optimal Resource Allocation Algorithm for Non-Orthogonal Multi-User and Multi-Weight Opportunistic Beamforming Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 2864-2877.	6.3	8
62	QoS-Based Robust Cooperative-Jamming-Aided Beamforming for Correlated Wiretap Channels. IEEE Signal Processing Letters, 2020, 27, 216-220.	3.6	8
63	Artificial Noise Assisted Secure Mobile Crowd Computing in Intelligently Connected Vehicular Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 7637-7651.	6.3	8
64	Space division and dimensional reduction methods for indoor positioning system. , 2015, , .		7
65	An adaptive neural networks formulation for the two-dimensional principal component analysis. Neural Computing and Applications, 2016, 27, 1245-1261.	5.6	7
66	Complementary Coded Scrambling Multiple Access and Its Performance in Downlink MIMO Channels. IEEE Transactions on Wireless Communications, 2018, 17, 835-847.	9.2	7
67	A Unified Multiuser Coding Framework for Multiple-Access Technologies. IEEE Systems Journal, 2019, 13, 3781-3792.	4.6	7
68	Correlation-Based Cooperative Jamming to Enhance Secrecy With Receiver-Side Correlation. IEEE Transactions on Vehicular Technology, 2020, 69, 1903-1912.	6.3	7
69	Performance Analysis of Joint Transmission Schemes in Ultra-Dense Networks â€“ A Unified Approach. IEEE/ACM Transactions on Networking, 2020, 28, 154-167.	3.8	7
70	An Accuracy Estimation Algorithm for Fingerprint Positioning System. , 2014, , .		6
71	Random beamforming for multiuser multiplexing in downlink correlated Rician channel. , 2016, , .		6
72	Improving Secrecy for Correlated Main and Wiretap Channels Using Cooperative Jamming. IEEE Access, 2019, 7, 23788-23797.	4.2	6

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73	Sparse Code Multiple Access Asynchronous Uplink Multiuser Detection Algorithm. IEEE Transactions on Vehicular Technology, 2019, 68, 5557-5569.	6.3	6
74	Panoramic Camera-Based Human Localization Using Automatically Generated Training Data. IEEE Access, 2020, 8, 48836-48845.	4.2	6
75	Revenue-Maximizing Resource Allocation for Multitenant Cell-Free Massive MIMO Networks. IEEE Systems Journal, 2022, 16, 3410-3421.	4.6	6
76	Adaptive Code Assignment Algorithm for a Multi-User/Multi-Rate CDMA System. IEICE Transactions on Communications, 2009, E92-B, 1600-1607.	0.7	6
77	Fairness-Based Resource Allocation for Multiple Weights Opportunistic Beamforming in Internet of Things Networks. IEEE Internet of Things Journal, 2022, 9, 10022-10035.	8.7	6
78	Civil aircraft assisted space-air-ground integrated networks: Architecture design and coverage analysis. China Communications, 2022, 19, 29-39.	3.2	6
79	A Novel Stability Weighted Clustering Algorithm for Multi-Hop Packet Radio Virtual Cellular Network. , 2010, , .		5
80	Euclidean distance based handoff algorithm for fingerprint positioning of WLAN system. , 2013, , .		5
81	A Tractable Multi-RATs Offloading Scheme on D2D Communications. IEEE Access, 2017, 5, 20841-20851.	4.2	5
82	Uniquely Decodable Codes for Physical-Layer Network Coding in Wireless Cooperative Communications. IEEE Systems Journal, 2019, 13, 3956-3967.	4.6	5
83	How Much Can Radio Resource Allocation Help to Improve Secrecy Capacity of V2V Underlay Cellular Networks?. IEEE Transactions on Vehicular Technology, 2020, 69, 14932-14944.	6.3	5
84	Application of cyclic delay transmit diversity to uplink 2-dimensional block spread CDMA with frequency-domain equalization. , 2009, , .		4
85	Two-Dimensional Block-Spread CDMA Relay Using Virtual-Four-Antenna STCDTD. IEEE Transactions on Vehicular Technology, 2013, 62, 3813-3827.	6.3	4
86	Cooperative quadrature physical layer network coding in wireless relay networks. International Journal of Communication Systems, 2015, 28, 112-126.	2.5	4
87	I/Q Column-Wise Complementary Codes for Interference-Resistant CDMA Communication Systems. IEEE Systems Journal, 2015, 9, 4-12.	4.6	4
88	Correlation-Based Secure Transmission for Correlated MISO Wiretap Channels. IEEE Wireless Communications Letters, 2020, 9, 302-305.	5.0	4
89	Complementary Coded CDMA Systems With CP-Free OFDM. IEEE Transactions on Vehicular Technology, 2020, 69, 11515-11528.	6.3	4
90	Power Scaling of Full-Duplex Two-Way Millimeter-Wave Relay With Massive MIMO. IEEE Transactions on Vehicular Technology, 2020, 69, 15298-15313.	6.3	4

#	Article	IF	Citations
91	A novel relay selection scheme in multi-antenna cooperative systems. , 2010, , .		3
92	Soft network coding design in two-way relay channel. , 2012, , .		3
93	A dense overlapped linear subarray architecture for interference suppressing in smallâ€scale arrays. International Journal of Communication Systems, 2015, 28, 990-1000.	2.5	3
94	Air-Ground Cooperative Access Control Algorithm Based on Q-Learning. , 2020, , .		3
95	IMS-based Smart Grid System. , 2012, , .		2
96	A survey of trunking communications over LTE: Implementation framework, application requirements, and quality of service. , 2013, , .		2
97	Cooperative communications and sensing. Wireless Communications and Mobile Computing, 2014, 14, 1201-1203.	1.2	2
98	BER Analysis of Physical-Layer Network Coding in the AWGN Channel With Burst Pulses. IEEE Access, 2016, 4, 9958-9968.	4.2	2
99	A design of D2D-pairing scheme on Voronoi diagram. , 2017, , .		2
100	Spectral efficiency evaluation of fullâ€duplex mode of communications based on SLNR approach. International Journal of Communication Systems, 2019, 32, e4006.	2.5	2
101	Hybrid Pre-Coding Based on Minimum SMSE Considering Insertion Loss in mmWave Communications. IEEE Transactions on Communications, 2019, 67, 8707-8724.	7.8	2
102	Joint Resource Allocation and Secrecy Capacity optimization in V2V Communications : (Invited Paper). , 2019, , .		2
103	Robust Beamforming Design for Correlated MISO Wiretap Channels Under Channel Uncertainty. IEEE Wireless Communications Letters, 2020, 9, 553-557.	5.0	2
104	Graph-Based Resource Allocation for Air-Ground Integrated Networks. Mobile Networks and Applications, 2022, 27, 492-501.	3.3	2
105	The China-Chile ICT Joint Laboratory: A 5G Standalone Network for Education, Innovation Research and Development. , 2021, , .		2
106	Code Assignment Algorithm for 2-Dimensional Block Spread CDMA Uplink in Multi-Cell System. , 2009, , .		1
107	Space-Differential Cooperative acquisition for Galileo E1 OS signals. , 2010, , .		1
108	On the Uplink Performance of Cooperative Diversity with Multiple-Antenna Terminals. , 2010, , .		1

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109	Channel capacity analysis on cooperative MIMO with antenna spatial correlation and multi-path. , 2011, , .		1
110	3GPE: An energy efficient probabilistic fingerprint-assisted localization in indoor Wi-Fi areas. , 2012, , .		1
111	Optimum power allocation for OFDM in physical-layer network coding over a flat frequency-selective fading channel. , 2013, , .		1
112	Packet loss recovery algorithm based on row-column coding and RS coding. , 2013, , .		1
113	Pre-coding for multi-user physical network coding over a flat fading channel. , 2014, , .		1
114	Spectral efficiency of single cell full-duplex MU-MIMO system based on SLNR precoding. , 2016, , .		1
115	A high robustness positioning algorithm for fingerprint localization system. , 2016, , .		1
116	Multi-Parameter Based Self-Feedback Effectiveness Evaluation in a Multi-Sensor Fusion Positioning System. , 2017, , .		1
117	Analysis of D2Dâ€pairing scheme based on Voronoi diagram in cellular networks. International Journal of Communication Systems, 2018, 31, e3513.	2.5	1
118	Optimal Mode Selection for D2D Communication Underlaying Cellular Networks. , 2018, , .		1
119	Joint PHY/MAC Layer AN-Assisted Security Scheme in SVD-Based MIMO HARQ system. , 2019, , .		1
120	A Joint Scheduling Scheme for Relay-Involved D2D Communications in Cellular Systems. , 2019, , .		1
121	Artificial Noise Assisted MISO System-Power allocation and its SDR Implementation. , 2019, , .		1
122	Multiuser Opportunistic Beamforming Systems With Multiple Receive Antennas in Nakagami-m Fading Channels. IEEE Systems Journal, 2022, 16, 2602-2613.	4.6	1
123	RSSI Based Positioning Fusion Algorithm in Wireless Sensor Network Using Factor Graph. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 577-586.	0.3	1
124	Asymptotic Performance Analysis for mmWave V2X Cellular Networks. , 2021, , .		1
125	The modeling of wideband DS-CDMA uplink channel for the third-generation mobile communications. , 0, , .		0
126	Adaptive algorithm and relay selection for decode-and-forward cooperative multiple-antenna terminals. , 2011, , .		0

#	Article	IF	Citations
127	Application of Fountain Code to GPS Navigation Data Structure Design. , 2011, , .		0
128	Reseach on mobile hidden station for weighted clustering algorithm in MANET system. , 2011, , .		0
129	Subpattern Complete Two Dimensional Locality Preserving Principal Component Analysis and its application to gait recognition. , 2011, , .		0
130	Design of high sensitivity GPS signal acquisition circuit with new frequency domain search strategy. , 2011, , .		0
131	MONET Special Issue on Towards Future Ad Hoc Networks: Technologies and Applications (II). Mobile Networks and Applications, 0, , 1.	3.3	0
132	SINR-OP Based Robust AN-Aided Beamforming for Correlated MISO Eavesdropping Channels. , 2021, , .		0
133	An Adaptive Weighted Clustering Algorithm for Cooperative Communications. IEICE Transactions on Communications, 2011, E94-B, 3251-3258.	0.7	0
134	A Cooperative Anti-spoofing Technology Based on Subspace Projection. Lecture Notes in Electrical Engineering, 2018, , 91-100.	0.4	0