Ahmet M Elbir

List of Publications by Year
in descending order

45	1,113	623574 14	642610 23
papers	citations	h-index	g-index

45	45	45	808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Family of Deep Learning Architectures for Channel Estimation and Hybrid Beamforming in Multi-Carrier mm-Wave Massive MIMO. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 642-656.	4.9	15
2	Federated Learning for Channel Estimation in Conventional and RIS-Assisted Massive MIMO. IEEE Transactions on Wireless Communications, 2022, 21, 4255-4268.	6.1	49
3	A Hybrid Architecture for Federated and Centralized Learning. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1529-1542.	4.9	12
4	Sparse Array Selection Across Arbitrary Sensor Geometries With Deep Transfer Learning. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 255-264.	4.9	17
5	Federated Dropout Learning for Hybrid Beamforming with Spatial Path Index Modulation in Multi-User Mmwave-Mimo Systems. , 2021, , .		1
6	Coverage Probability of Distributed IRS Systems Under Spatially Correlated Channels. IEEE Wireless Communications Letters, 2021, 10, 1722-1726.	3.2	31
7	Federated Learning for DL-CSI Prediction in FDD Massive MIMO Systems. IEEE Wireless Communications Letters, 2021, 10, 1810-1814.	3.2	11
8	Terahertz-Band Joint Ultra-Massive MIMO Radar-Communications: Model-Based and Model-Free Hybrid Beamforming. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1468-1483.	7.3	67
9	Hybrid Beamforming for Terahertz Joint Ultra-Massive MIMO Radar-Communications. , 2021, , .		1
10	Hybrid Federated and Centralized Learning. , 2021, , .		9
11	Federated Learning for Physical Layer Design. IEEE Communications Magazine, 2021, 59, 81-87.	4.9	17
12	L-shaped coprime array structures for DOA estimation. Multidimensional Systems and Signal Processing, 2020, 31, 205-219.	1.7	12
13	Hybrid Precoding for Multiuser Millimeter Wave Massive MIMO Systems: A Deep Learning Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 552-563.	3.9	105
14	Joint Antenna Selection and Hybrid Beamformer Design Using Unquantized and Quantized Deep Learning Networks. IEEE Transactions on Wireless Communications, 2020, 19, 1677-1688.	6.1	100
15	Low-Complexity Limited-Feedback Deep Hybrid Beamforming for Broadband Massive MIMO. , 2020, , .		2
16	A Deep Learning Framework for Hybrid Beamforming Without Instantaneous CSI Feedback. IEEE Transactions on Vehicular Technology, 2020, 69, 11743-11755.	3.9	25
17	Federated Learning for Hybrid Beamforming in mm-Wave Massive MIMO. IEEE Communications Letters, 2020, 24, 2795-2799.	2.5	43
18	DeepMUSIC: Multiple Signal Classification via Deep Learning. , 2020, 4, 1-4.		87

#	Article	IF	Citations
19	Deep Channel Learning for Large Intelligent Surfaces Aided mm-Wave Massive MIMO Systems. IEEE Wireless Communications Letters, 2020, 9, 1447-1451.	3.2	145
20	CNN-Based Cognitive Radar Array Selection. , 2019, , .		2
21	Deep Learning Design for Joint Antenna Selection and Hybrid Beamforming in Massive MIMO. , 2019, , .		14
22	Two-Dimensional DOA Estimation via Shifted Sparse Arrays with Higher Degrees of Freedom. Circuits, Systems, and Signal Processing, 2019, 38, 5549-5575.	1.2	10
23	Cognitive radar antenna selection via deep learning. IET Radar, Sonar and Navigation, 2019, 13, 871-880.	0.9	70
24	CNN-Based Precoder and Combiner Design in mmWave MIMO Systems. IEEE Communications Letters, 2019, 23, 1240-1243.	2.5	101
25	Sensor array calibration with joint-block-sparsity in the presence of multiple separable observations. Signal, Image and Video Processing, 2019, 13, 905-913.	1.7	1
26	Deep-Sparse Array Cognitive Radar. , 2019, , .		8
27	Robust Hybrid Beamforming With Quantized Deep Neural Networks. , 2019, , .		6
28	Joint-block-sparsity for efficient 2-D DOA estimation with multiple separable observations. Multidimensional Systems and Signal Processing, 2019, 30, 1659-1669.	1.7	0
29	V-Shaped Sparse Arrays for 2-D DOA Estimation. Circuits, Systems, and Signal Processing, 2019, 38, 2792-2809.	1.2	8
30	Direction Finding in the Presence of Direction-Dependent Mutual Coupling. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1541-1544.	2.4	52
31	A Novel Data Transformation Approach for DOA Estimation With 3-D Antenna Arrays in the Presence of Mutual Coupling. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2118-2121.	2.4	19
32	Calibration of directional mutual coupling for antenna arrays. , 2017, 69, 117-126.		9
33	Compressed sensing for single snapshot direction finding in the presence of mutual coupling. , 2016, , .		2
34	2-D DOA and mutual coupling coefficient estimation for arbitrary array structures with single and multiple snapshots. , 2016, 54, 75-86.		24
35	Direction-of-arrival and mutual coupling coefficient estimation with a single observation for arbitrary array structures. , 2016, , .		1
36	Single snapshot DOA estimation in the presence of mutual coupling for arbitrary array structures. , 2016, , .		6

#	Article	IF	Citations
37	Direction finding and localization for far-field sources with near-field multipath reflections. , 2015, , .		2
38	Source localization with sparse recovery for coherent far- and near-field signals. , 2015, , .		2
39	Sparse support recovery for DOA estimation in the presence of mutual coupling. , 2015, , .		3
40	Sparse signal recovery for localization of coherent far- and near-field signals. , 2015, , .		0
41	Angle and position estimation for far-field and near-field multipath signals. , 2014, , .		3
42	Farâ€field DOA estimation and nearâ€field localization for multipath signals. Radio Science, 2014, 49, 765-776.	0.8	13
43	Calibration of antenna arrays for aeronautical vehicles on ground. Aerospace Science and Technology, 2013, 30, 18-25.	2.5	8
44	Ground calibration of antenna arrays for aeronautical vehicles. , 2013, , .		0
45	Ground calibration of antenna arrays for complex platforms. , 2013, , .		0