

Mojtaba Soltanalian

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,315
citations

471061

17
h-index

500791

28
g-index

53
all docs

53
docs citations

53
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing Unimodular Codes Via Quadratic Optimization. IEEE Transactions on Signal Processing, 2014, 62, 1221-1234.	3.2	153
2	Computational Design of Sequences With Good Correlation Properties. IEEE Transactions on Signal Processing, 2012, 60, 2180-2193.	3.2	118
3	A Doppler Robust Design of Transmit Sequence and Receive Filter in the Presence of Signal-Dependent Interference. IEEE Transactions on Signal Processing, 2014, 62, 772-785.	3.2	105
4	Directional Modulation Via Symbol-Level Precoding: A Way to Enhance Security. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1478-1493.	7.3	103
5	Joint Design of the Receive Filter and Transmit Sequence for Active Sensing. IEEE Signal Processing Letters, 2013, 20, 423-426.	2.1	98
6	Unified Optimization Framework for Multi-Static Radar Code Design Using Information-Theoretic Criteria. IEEE Transactions on Signal Processing, 2013, 61, 5401-5416.	3.2	82
7	One-Bit Radar Processing With Time-Varying Sampling Thresholds. IEEE Transactions on Signal Processing, 2019, 67, 5297-5308.	3.2	53
8	A fast algorithm for designing complementary sets of sequences. Signal Processing, 2013, 93, 2096-2102.	2.1	51
9	Single-stage transmit beamforming design for MIMO radar. Signal Processing, 2014, 102, 132-138.	2.1	42
10	Radar code design for detection of moving targets. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2762-2778.	2.6	37
11	Deep Signal Recovery with One-bit Quantization. , 2019, , .		36
12	Efficient Design of Binary Sequences With Low Autocorrelation Sidelobes. IEEE Transactions on Signal Processing, 2019, 67, 6397-6410.	3.2	34
13	On the Performance of One-Bit DoA Estimation via Sparse Linear Arrays. IEEE Transactions on Signal Processing, 2021, 69, 6165-6182.	3.2	26
14	Model-Based Deep Learning for One-Bit Compressive Sensing. IEEE Transactions on Signal Processing, 2020, 68, 5292-5307.	3.2	23
15	LoRD-Net: Unfolded Deep Detection Network With Low-Resolution Receivers. IEEE Transactions on Signal Processing, 2021, 69, 5651-5664.	3.2	23
16	On Meeting the Peak Correlation Bounds. IEEE Transactions on Signal Processing, 2014, 62, 1210-1220.	3.2	22
17	Locating the Few: Sparsity-Aware Waveform Design for Active Radar. IEEE Transactions on Signal Processing, 2017, 65, 651-662.	3.2	22
18	Constructing Binary Sequences With Good Correlation Properties: An Efficient Analytical-Computational Interplay. IEEE Transactions on Signal Processing, 2018, 66, 2998-3007.	3.2	19

#	ARTICLE	IF	CITATIONS
19	Signal Recovery From 1-Bit Quantized Noisy Samples via Adaptive Thresholding. , 2018, , .		18
20	Training Signal Design for Correlated Massive MIMO Channel Estimation. IEEE Transactions on Wireless Communications, 2017, 16, 1135-1143.	6.1	16
21	Efficient waveform covariance matrix design and antenna selection for MIMO radar. Signal Processing, 2021, 183, 107985.	2.1	15
22	Secure M-PSK communication via directional modulation. , 2016, , .		14
23	One-Bit DoA Estimation via Sparse Linear Arrays. , 2020, , .		13
24	MIMO directional modulation M-QAM precoding for transceivers performance enhancement. , 2017, , .		12
25	One-Bit Radar Processing and Estimation with Time-Varying Sampling Thresholds. , 2018, , .		12
26	Optimized Transmission for Parameter Estimation in Wireless Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 35-47.	1.6	11
27	Modified Arcsine Law for One-Bit Sampled Stationary Signals with Time-Varying Thresholds. , 2021, , .		11
28	Efficient Sum-Rate Maximization for Medium-Scale MIMO AF-Relay Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6400-6411.	6.1	10
29	Receive Spatial Modulation in Correlated Massive MIMO With Partial CSI. IEEE Transactions on Signal Processing, 2019, 67, 1237-1250.	3.2	10
30	Mutual Interference Mitigation for Multiple Connected Automotive Radar Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 11062-11066.	3.9	10
31	Spatial peak power minimization for relaxed phase M-PSK MIMO directional modulation transmitter. , 2017, , .		8
32	UPR: A Model-Driven Architecture for Deep Phase Retrieval. , 2020, , .		8
33	DEEP-URL: A Model-Aware Approach to Blind Deconvolution Based on Deep Unfolded Richardson-Lucy Network. , 2020, , .		7
34	Deep Radar Waveform Design for Efficient Automotive Radar Sensing. , 2020, , .		7
35	DoA Estimation Using Low-Resolution Multi-Bit Sparse Array Measurements. IEEE Signal Processing Letters, 2021, 28, 1400-1404.	2.1	6
36	Large-System Mutual Information Analysis of Receive Spatial Modulation in Correlated Multi-Cell Massive MIMO Networks. IEEE Transactions on Communications, 2019, 67, 6071-6084.	4.9	5

#	ARTICLE	IF	CITATIONS
37	Joint Optimization of Waveform Covariance Matrix and Antenna Selection for MIMO Radar. , 2019, , .		5
38	One-Bit Compressive Sensing: Can We Go Deep and Blind?. IEEE Signal Processing Letters, 2022, 29, 1629-1633.	2.1	5
39	An iterative approach to nonconvex QCQP with applications in signal processing. , 2016, , .		4
40	Optimized Transmission for Consensus in Wireless Sensor Networks. , 2018, , .		4
41	Model-based deep learning for additive manufacturing: New frontiers and applications. Manufacturing Letters, 2021, 29, 94-98.	1.1	4
42	Graph Clustering Using One-Bit Comparison Data. , 2018, , .		3
43	Low-Rank Matrix Recovery from One-Bit Comparison Information. , 2018, , .		3
44	Efficient construction of polyphase sequences with optimal peak sidelobe level growth. , 2017, , .		2
45	Model-Inspired Deep Detection with Low-Resolution Receivers. , 2021, , .		2
46	Non-convex shredded signal reconstruction via sparsity enhancement. , 2017, , .		1
47	ComSens: Exploiting pilot diversity for pervasive integration of communication and sensing in MIMO-TDD-Frameworks. , 2017, , .		1
48	Waveform Design for One-Bit Radar Systems Under Uncertain Interference Statistics. , 2019, , .		1
49	Deep One-Bit Compressive Autoencoding. , 2021, , .		1
50	Fast and Robust LRSD-Based SAR/ISAR Imaging and Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	1
51	Comprehensive Personalized Ranking Using One-Bit Comparison Data. , 2019, , .		0
52	On The Asymptotic Performance of One-Bit Co-Array-Based Music. , 2021, , .		0