Marian Codreanu

List of Publications by Year
in descending order

81 papers	2,244 citations	393982 19 h-index	264894 42 g-index
81 all docs	81 docs citations	81 times ranked	1583 citing authors

#	Article	IF	Citations
1	Power Minimization for Age of Information Constrained Dynamic Control in Wireless Sensor Networks. IEEE Transactions on Communications, 2022, 70, 419-432.	4.9	21
2	AoI Minimization in Status Update Control With Energy Harvesting Sensors. IEEE Transactions on Communications, 2021, 69, 8335-8351.	4.9	35
3	Average AoI in Multi-Source Systems With Source-Aware Packet Management. IEEE Transactions on Communications, 2021, 69, 1121-1133.	4.9	40
4	Moment Generating Function of the AoI in a Two-Source System With Packet Management. IEEE Wireless Communications Letters, 2021, 10, 882-886.	3.2	24
5	Source-Aware Packet Management for Computation-Intensive Status Updating: MGF of the AoI. , 2021, , .		3
6	Moment Generating Function of the AoI in Multi-Source Systems with Computation-Intensive Status Updates. , 2021, , .		7
7	Worst Case Age of Information in Wireless Sensor Networks: A Multi-Access Channel. IEEE Wireless Communications Letters, 2020, 9, 321-325.	3.2	23
8	Average Age of Information in a Multi-Source M/M/1 Queueing Model with LCFS Prioritized Packet Management. , 2020, , .		6
9	An Exact Expression for the Average AoI in a Multi-Source M/M/1 Queueing Model. , 2020, , .		4
10	On the Age of Information in Multi-Source Queueing Models. IEEE Transactions on Communications, 2020, 68, 5003-5017.	4.9	89
11	Compressive sensed video recovery via iterative thresholding with random transforms. IET Image Processing, 2020, 14, 1187-1199.	1.4	9
12	Age-Aware Status Update Control for Energy Harvesting IoT Sensors via Reinforcement Learning. , 2020, , .		18
13	Average Age of Information for a Multi-Source M/M/1 Queueing Model With Packet Management. , 2020, , .		25
14	Optimal Sampling Cost in Wireless Networks with Age of Information Constraints. , 2020, , .		20
15	Low-Complexity Vector Quantized Compressed Sensing via Deep Neural Networks. IEEE Open Journal of the Communications Society, 2020, 1, 1278-1294.	4.4	4
16	Practical Compression Methods for Quantized Compressed Sensing. , 2019, , .		3
17	Closed-Form Expression for the Average Age of Information in a Multi-Source M/G/1 Queueing Model. , 2019, , .		20
18	Signal Reconstruction Performance Under Quantized Noisy Compressed Sensing. , 2019, , .		0

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19	Online Caching Policy with User Preferences and Time-Dependent Requests: A Reinforcement Learning Approach. , 2019, , .		3
20	Power Minimization in Wireless Sensor Networks With Constrained AoI Using Stochastic Optimization. , 2019, , .		16
21	Low Complexity Sparse Channel Estimation for Wideband mmWave Systems: Multi-Stage Approach. , 2019, , .		0
22	Worst Case Analysis of Age of Information in a Shared-Access Channel. , 2019, , .		3
23	Compressed Sensing with Applications in Wireless Networks. Foundations and Trends in Signal Processing, 2019, 13, 1-282.	12.0	12
24	Distributed Distortion-Rate Optimized Compressed Sensing in Wireless Sensor Networks. IEEE Transactions on Communications, 2018, 66, 1609-1623.	4.9	33
25	Admission Control Algorithms for QoS-Constrained Multicell MISO Downlink Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1982-1999.	6.1	10
26	Distributed sparse diffusion estimation based on set membership and affine projection algorithm. , 2018, 73, 47-61.		10
27	Distributed sparse diffusion estimation with reduced communication cost. IET Signal Processing, 2018, 12, 1043-1052.	0.9	12
28	Bayesian Learning Based Millimeter-Wave Sparse Channel Estimation with Hybrid Antenna Array. , 2018, , .		2
29	Rate-Distortion Performance of Lossy Compressed Sensing of Sparse Sources. IEEE Transactions on Communications, 2018, , 1-1.	4.9	11
30	Lapped Transforms Based Image Recovery for Block Compressed Sensing. , 2018, , .		1
31	An Interior-Point Method for Modified Total Variation Exploiting Transform-Domain Sparsity. IEEE Signal Processing Letters, 2017, 24, 56-60.	2.1	2
32	Error Concealment for 3-D DWT Based Video Codec Using Iterative Thresholding. IEEE Communications Letters, 2017, 21, 1731-1734.	2.5	5
33	Dynamic Inter-Operator Spectrum Sharing via Lyapunov Optimization. IEEE Transactions on Wireless Communications, 2017, 16, 6365-6381.	6.1	25
34	Rate-distortion lower bound for compressed sensing via conditional remote source coding. , 2016, , .		3
35	Distributed variable-rate quantized compressed sensing in wireless sensor networks. , 2016, , .		4
36	A Bayesian Approach for Online Recovery of Streaming Signals from Compressive Measurements. IEEE Transactions on Signal Processing, 2016, , 1-1.	3.2	9

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37	On the Age of Information in Status Update Systems With Packet Management. IEEE Transactions on Information Theory, 2016, 62, 1897-1910.	1.5	470
38	Channel-robust compressed sensing via vector pre-quantization in wireless sensor networks. , 2015, , .		5
39	Sequential Compressed Sensing With Progressive Signal Reconstruction in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1622-1635.	6.1	73
40	Network Layer Scheduling and Relaying in Cooperative Spectrum Sharing Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4597-4613.	6.1	2
41	Maximization of Worst-Case Weighted Sum-Rate for MISO Downlink Systems With Imperfect Channel Knowledge. IEEE Transactions on Communications, 2015, 63, 3671-3685.	4.9	10
42	Route Discovery Protocol for Energy Efficient Networks With MIMO Links. IEEE Journal on Selected Areas in Communications, 2015, 33, 2735-2748.	9.7	1
43	Compressed acquisition and progressive reconstruction of multi-dimensional correlated data in wireless sensor networks. , 2014, , .		10
44	Age of information with packet management. , 2014, , .		252
45	A robust beamformer design for underlay cognitive radio networks using worst case optimization. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	14
46	Distributed resource allocation for MISO downlink systems via the alternating direction method of multipliers. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	82
47	The Stability Property of Cognitive Radio Systems with Imperfect Sensing. IEEE Journal on Selected Areas in Communications, 2014, 32, 628-640.	9.7	16
48	Opportunistic scheduling and relaying in a cooperative cognitive network. , 2014, , .		1
49	Power–Throughput Tradeoff in MIMO Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2014, 13, 4309-4322.	6.1	8
50	Scheduling in cooperative cognitive radio networks. , 2013, , .		0
51	Distributed Joint Resource and Routing Optimization in Wireless Sensor Networks via Alternating Direction Method of Multipliers. IEEE Transactions on Wireless Communications, 2013, 12, 5454-5467.	6.1	60
52	Distributed correlated data gathering in wireless sensor networks via compressed sensing. , 2013, , .		10
53	Multicell MISO Downlink Weighted Sum-Rate Maximization: A Distributed Approach. IEEE Transactions on Signal Processing, 2013, 61, 556-570.	3.2	22
54	Energy efficient power allocation for MIMO multihop networks. , 2013, , .		2

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55	On hybrid access for cognitive radio systems with time-varying connectivity. , 2013, , .		2
56	Weighted Sum-Rate Maximization for MISO Downlink Cellular Networks via Branch and Bound. IEEE Transactions on Signal Processing, 2012, 60, 2090-2095.	3.2	65
57	Distributed consensus based joint resource and routing optimization in wireless sensor networks. , 2012, , .		3
58	Consensus based distributed joint power and routing optimization in wireless sensor networks. , 2012, , .		5
59	EXIT Chart-Based Power Allocation for Iterative Frequency Domain MIMO Detector. IEEE Transactions on Signal Processing, 2011, 59, 1624-1641.	3.2	16
60	Resource Allocation for Cross-Layer Utility Maximization in Wireless Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 2790-2809.	3.9	116
61	Weighted Sum-Rate Maximization for a Set of Interfering Links via Branch and Bound. IEEE Transactions on Signal Processing, 2011, 59, 3977-3996.	3.2	84
62	Resource allocation for OFDMA-based relay assisted two-tier femtocell networks. , 2011, , .		6
63	On the Effect of Self-Interference Cancelation in MultiHop Wireless Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	16
64	Primal Decomposition-Based Method for Weighted Sum-Rate Maximization in Downlink OFDMA Systems. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	1
65	Throughput-Efficient Dynamic Coalition Formation in Distributed Cognitive Radio Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	13
66	On Greedy Methods for EXIT Chart Based Transmission Power Allocation. , 2010, , .		0
67	Power allocation for irregularly modulated MIMO signaling with iterative frequency domain detector. , 2009, , .		0
68	Linear Multiuser MIMO Transceiver Design With Quality of Service and Per-Antenna Power Constraints. IEEE Transactions on Signal Processing, 2008, 56, 3049-3055.	3.2	55
69	Cooperative MIMO-OFDM Cellular System with Soft Handover Between Distributed Base Station Antennas. IEEE Transactions on Wireless Communications, 2008, 7, 1428-1440.	6.1	116
70	Weighted sum-rate maximization for downlink OFDMA systems. , 2008, , .		1
71	Adaptive subcarrier and power allocation for OFDMA systems. , 2008, , .		0
72	Linear Multiuser MIMO Transmission with Quality of Service and Per Antenna Power Constraints. , 2007, , .		0

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73	Minimum SINR Maximization for Multiuser MIMO Downlink with Per BS Power Constraints. , 2007, , .		21
74	On the Dual-Decomposition-Based Sum Capacity Maximization for Vector Broadcast Channels. IEEE Transactions on Vehicular Technology, 2007, 56, 3577-3581.	3.9	7
75	Compensation of non-reciprocal interference in adaptive MIMO-OFDM cellular systems. IEEE Transactions on Wireless Communications, 2007, 6, 545-555.	6.1	14
76	Linear Multiuser MIMO Transceiver Optimization in Cooperative Networks. , 2007, , .		0
77	Joint Design of Tx-Rx Beamformers in MIMO Downlink Channel. IEEE Transactions on Signal Processing, 2007, 55, 4639-4655.	3.2	128
78	Low-Complexity Iterative Algorithm for Finding the MIMO-OFDM Broadcast Channel Sum Capacity. IEEE Transactions on Communications, 2007, 55, 48-53.	4.9	16
79	WLC14-2: Adaptive MIMO-OFDM Cellular System with Soft Handover between Distributed Base Station Antennas. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
80	On the Dual Decomposition Based Sum Capacity Maximization for Vector Broadcast Channels. , 2006, , .		1
81	Soft Handover in Adaptive MIMO-OFDM Cellular System with Cooperative Processing. , 2006, , .		4