

Olgica Milenkovic

List of Publications by Year in descending order

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69
papers

3,623
citations

331670

21
h-index

302126

39
g-index

71
all docs

71
docs citations

71
times ranked

2850
citing authors

#	ARTICLE	IF	CITATIONS
1	Subspace Pursuit for Compressive Sensing Signal Reconstruction. IEEE Transactions on Information Theory, 2009, 55, 2230-2249.	2.4	1,793
2	Portable and Error-Free DNA-Based Data Storage. Scientific Reports, 2017, 7, 5011.	3.3	222
3	A Rewritable, Random-Access DNA-Based Storage System. Scientific Reports, 2015, 5, 14138.	3.3	214
4	DNA-Based Storage: Trends and Methods. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 230-248.	2.1	157
5	DNA punch cards for storing data on native DNA sequences via enzymatic nicking. Nature Communications, 2020, 11, 1742.	12.8	70
6	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie - International Edition, 2016, 55, 10722-10725.	13.8	67
7	Information Theoretical and Algorithmic Approaches to Quantized Compressive Sensing. IEEE Transactions on Communications, 2011, 59, 1857-1866.	7.8	62
8	Error-Correction in Flash Memories via Codes in the Ulam Metric. IEEE Transactions on Information Theory, 2013, 59, 3003-3020.	2.4	62
9	Detecting topological variations of DNA at single-molecule level. Nature Communications, 2019, 10, 3.	12.8	59
10	Distortion-rate functions for quantized compressive sensing. , 2009, , .		55
11	Subspace Evolution and Transfer (SET) for Low-Rank Matrix Completion. IEEE Transactions on Signal Processing, 2011, 59, 3120-3132.	5.3	47
12	On the Hardness of Approximating Stopping and Trapping Sets. IEEE Transactions on Information Theory, 2010, 56, 1640-1650.	2.4	46
13	Repairing Reed-Solomon Codes With Multiple Erasures. IEEE Transactions on Information Theory, 2018, 64, 6567-6582.	2.4	43
14	Coded Trace Reconstruction. IEEE Transactions on Information Theory, 2020, 66, 6084-6103.	2.4	42
15	Mutually Uncorrelated Primers for DNA-Based Data Storage. IEEE Transactions on Information Theory, 2018, 64, 6283-6296.	2.4	38
16	Codes in the Damerau Distance for Deletion and Adjacent Transposition Correction. IEEE Transactions on Information Theory, 2018, 64, 2550-2570.	2.4	37
17	A Geometric Approach to Low-Rank Matrix Completion. IEEE Transactions on Information Theory, 2012, 58, 237-247.	2.4	36
18	Asymmetric Lee Distance Codes for DNA-Based Storage. IEEE Transactions on Information Theory, 2017, 63, 4982-4995.	2.4	35

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19	Multiple-bases belief-propagation decoding of high-density cyclic codes. IEEE Transactions on Communications, 2010, 58, 1-8.	7.8	32
20	SET: An algorithm for consistent matrix completion. , 2010, , .		30
21	Optimal repair schemes for some families of full-length reed-solomon codes. , 2017, , .		29
22	Permutation Decoding and the Stopping Redundancy Hierarchy of Cyclic and Extended Cyclic Codes. IEEE Transactions on Information Theory, 2008, 54, 5308-5331.	2.4	24
23	CaSPIAN: A Causal Compressive Sensing Algorithm for Discovering Directed Interactions in Gene Networks. PLoS ONE, 2014, 9, e90781.	2.5	24
24	The Trapping Redundancy of Linear Block Codes. IEEE Transactions on Information Theory, 2009, 55, 53-63.	2.4	23
25	A comparative study of quantized compressive sensing schemes. , 2009, , .		22
26	Sublinear compressive sensing reconstruction via belief propagation decoding. , 2009, , .		22
27	Weighted Superimposed Codes and Constrained Integer Compressed Sensing. IEEE Transactions on Information Theory, 2009, 55, 2215-2229.	2.4	21
28	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie, 2016, 128, 10880-10883.	2.0	18
29	Expanding the Molecular Alphabet of DNA-Based Data Storage Systems with Neural Network Nanopore Readout Processing. Nano Letters, 2022, 22, 1905-1914.	9.1	18
30	An Axiomatic Approach to Constructing Distances for Rank Comparison and Aggregation. IEEE Transactions on Information Theory, 2014, 60, 6417-6439.	2.4	17
31	Poisson group testing: A probabilistic model for nonadaptive streaming boolean compressed sensing. , 2014, , .		16
32	Rewritable two-dimensional DNA-based data storage with machine learning reconstruction. Nature Communications, 2022, 13, .	12.8	16
33	A new correlation clustering method for cancer mutation analysis. Bioinformatics, 2016, 32, 3717-3728.	4.1	15
34	Repairing reed-solomon codes with two erasures. , 2017, , .		15
35	Correlation Clustering and Biclustering With Locally Bounded Errors. IEEE Transactions on Information Theory, 2018, 64, 4105-4119.	2.4	15
36	Sorting of Permutations by Cost-Constrained Transpositions. IEEE Transactions on Information Theory, 2012, 58, 3-23.	2.4	14

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37	HyDRA: gene prioritization via hybrid distance-score rank aggregation. <i>Bioinformatics</i> , 2015, 31, 1034-1043.	4.1	13
38	MetaCRAM: an integrated pipeline for metagenomic taxonomy identification and compression. <i>BMC Bioinformatics</i> , 2016, 17, 94.	2.6	12
39	Exabytes in a Test Tube. <i>IEEE Spectrum</i> , 2018, 55, 40-45.	0.7	12
40	Coded Trace Reconstruction. , 2019, , .		11
41	Characterization of small trapping sets in LDPC codes from Steiner triple systems. , 2010, , .		10
42	Access balancing in storage systems by labeling partial Steiner systems. <i>Designs, Codes, and Cryptography</i> , 2020, 88, 2361-2376.	1.6	10
43	Small-sample distribution estimation over sticky channels. , 2009, , .		9
44	Interaction dynamics and site-specific electronic recognition of DNA-nicks with 2D solid-state nanopores. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	9
45	Self-assembled microtubular electrodes for on-chip low-voltage electrophoretic manipulation of charged particles and macromolecules. <i>Microsystems and Nanoengineering</i> , 2022, 8, 27.	7.0	9
46	Image Processing in DNA. , 2020, , .		8
47	Multi-MotifGAN (MMGAN): Motif-Targeted Graph Generation And Prediction. , 2020, , .		6
48	Repairing Reed-Solomon Codes via Subspace Polynomials. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 6395-6407.	2.4	6
49	Rank modulation for translocation error correction. , 2012, , .		5
50	Weighted Euclidean superimposed codes for integer compressed sensing. , 2008, , .		4
51	Compensating for sneak currents in multi-level crosspoint resistive memories. , 2015, , .		4
52	METHCOMP: a special purpose compression platform for DNA methylation data. <i>Bioinformatics</i> , 2018, 34, 2654-2656.	4.1	4
53	Information Theoretic Bounds for Tensor Rank Minimization over Finite Fields. , 2011, , .		3
54	Alternating Markov chains for distribution estimation in the presence of errors. , 2012, , .		3

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55	Weighted rank aggregation via relaxed integer programming. , 2013, , .		3
56	Synchronizing rankings via interactive communication. , 2014, , .		3
57	Multipermutation codes in the Ulam metric. , 2014, , .		3
58	Sparse weighted Euclidean superimposed coding for integer compressed sensing. , 2008, , .		2
59	Superimposed coding for iterative detection of DNA microarray spot failures. , 2008, , .		2
60	Iterative subspace pursuit decoding of weighted euclidean superimposed codes. , 2008, , .		2
61	MCUIUC — A new framework for metagenomic read compression. , 2013, , .		2
62	Group testing for non-uniformly quantized adder channels. , 2014, , .		2
63	Directed Intersection Representations and the Information Content of Digraphs. , 2019, , .		2
64	Sparse weighted Euclidean superimposed coding for integer compressed sensing. , 2008, , .		1
65	Compressive list-support recovery for colluder identification. , 2010, , .		1
66	Decomposing permutations via cost-constrained transpositions. , 2011, , .		1
67	Low-rank matrix completion with geometric performance guarantees. , 2011, , .		1
68	Guest Editorial Special Issue: "From Deletion-Correction to Graph Reconstruction: In Memory of Vladimir I. Levenshtein" IEEE Transactions on Information Theory, 2021, 67, 3187-3189.	2.4	1
69	MetaPar: Metagenomic sequence assembly via iterative reclassification. , 2013, , .		0