

Giovanni Cherubini

List of Publications by Year in descending order

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22
papers

565
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996975

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23
all docs

23
docs citations

23
times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	In-memory hyperdimensional computing. Nature Electronics, 2020, 3, 327-337.	26.0	145
2	29.5-Gb/in ² Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2011, 47, 137-147.	2.1	105
3	Compressed Sensing With Approximate Message Passing Using In-Memory Computing. IEEE Transactions on Electron Devices, 2018, 65, 4304-4312.	3.0	78
4	Robust high-dimensional memory-augmented neural networks. Nature Communications, 2021, 12, 2468.	12.8	50
5	123 Gbit/in ² Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	37
6	201 Gb/in ² Recording Areal Density on Sputtered Magnetic Tape. IEEE Transactions on Magnetics, 2018, 54, 1-8.	2.1	28
7	Servo-Pattern Design and Track-Following Control for Nanometer Head Positioning on Flexible Tape Media. IEEE Transactions on Control Systems Technology, 2012, 20, 369-381.	5.2	21
8	85.9 Gb/in ² Recording Areal Density on Barium Ferrite Tape. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	19
9	317 Gb/in ² Recording Areal Density on Strontium Ferrite Tape. IEEE Transactions on Magnetics, 2021, 57, 1-11.	2.1	16
10	Analytical Expressions for the Readback Signal of Timing-Based Servo Schemes. IEEE Transactions on Magnetics, 2012, 48, 4578-4581.	2.1	12
11	Convergence Behavior of DNNs with Mutual-Information-Based Regularization. Entropy, 2020, 22, 727.	2.2	9
12	High-Performance Servo Channel for Nanometer Head Positioning and Longitudinal Position Symbol Detection in Tape Systems. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1116-1128.	5.8	7
13	Nanoscale track-following for tape storage. , 2015, , .		6
14	A 4.1 pJ/b 25.6 Gb/s 4-PAM reduced-state sliding-block Viterbi detector in 14 nm CMOS. , 2016, , .		6
15	Design Techniques for High-Speed Multi-Level Viterbi Detectors and Trellis-Coded-Modulation Decoders. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3529-3542.	5.4	6
16	Energy Efficient In-Memory Hyperdimensional Encoding for Spatio-Temporal Signal Processing. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1725-1729.	3.0	6
17	Resolution Limits of Timing-Based Servo Schemes in Magnetic Tape Drives. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
18	Design considerations on sliding-block viterbi detectors for high-speed data transmission. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
19	Real-time Language Recognition using Hyperdimensional Computing on Phase-change Memory Array. , 2021, , .		2
20	Compressional Wave Disturbance Suppression for Nanoscale Track-Following on Flexible Tape Media. , 2018, , .		2
21	High-speed link with trellis-coded modulation and Reed-Solomon coding. , 2016, , .		1
22	Track-following system optimization for future magnetic tape data storage. Mechatronics, 2021, 80, 102662.	3.3	0