

Enrico Magli

List of Publications by Year in descending order

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105
papers

2,636
citations

218381

26
h-index

214527

47
g-index

106
all docs

106
docs citations

106
times ranked

2098
citing authors

#	ARTICLE	IF	CITATIONS
1	Transform Coding Techniques for Lossy Hyperspectral Data Compression. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1408-1421.	2.7	253
2	Graph Spectral Image Processing. Proceedings of the IEEE, 2018, 106, 907-930.	16.4	166
3	Analysis of One-Time Random Projections for Privacy Preserving Compressed Sensing. IEEE Transactions on Information Forensics and Security, 2016, 11, 313-327.	4.5	115
4	Metis: the Solar Orbiter visible light and ultraviolet coronal imager. Astronomy and Astrophysics, 2020, 642, A10.	2.1	115
5	Deep Graph-Convolutional Image Denoising. IEEE Transactions on Image Processing, 2020, 29, 8226-8237.	6.0	105
6	A Tutorial on Image Compression for Optical Space Imaging Systems. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-26.	4.9	90
7	Network Coding Meets Multimedia: A Review. IEEE Transactions on Multimedia, 2013, 15, 1195-1212.	5.2	84
8	DeepSUM: Deep Neural Network for Super-Resolution of Unregistered Multitemporal Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3644-3656.	2.7	77
9	Optimization and implementation of the integer wavelet transform for image coding. IEEE Transactions on Image Processing, 2002, 11, 596-604.	6.0	71
10	Sliding-Window Raptor Codes for Efficient Scalable Wireless Video Broadcasting With Unequal Loss Protection. IEEE Transactions on Image Processing, 2010, 19, 1491-1503.	6.0	68
11	Compressed Fingerprint Matching and Camera Identification via Random Projections. IEEE Transactions on Information Forensics and Security, 2015, 10, 1472-1485.	4.5	65
12	Error-Resilient and Low-Complexity Onboard Lossless Compression of Hyperspectral Images by Means of Distributed Source Coding. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1892-1904.	2.7	63
13	Speckle2Void: Deep Self-Supervised SAR Despeckling With Blind-Spot Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	52
14	A Novel Rate Control Algorithm for Onboard Predictive Coding of Multispectral and Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6341-6355.	2.7	51
15	User Authentication via PRNU-Based Physical Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2017, 12, 1941-1956.	4.5	51
16	Multiband Lossless Compression of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1168-1178.	2.7	50
17	Robust license plate recognition using neural networks trained on synthetic images. Pattern Recognition, 2019, 93, 134-146.	5.1	50
18	Distributed Arithmetic Coding for the Slepian-Wolf Problem. IEEE Transactions on Signal Processing, 2009, 57, 2245-2257.	3.2	46

#	ARTICLE	IF	CITATIONS
19	Unified Lossy and Near-Lossless Hyperspectral Image Compression Based on JPEG 2000. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 593-597.	1.4	42
20	Distributed Arithmetic Coding. IEEE Communications Letters, 2007, 11, 883-885.	2.5	40
21	Distributed iterative thresholding for ℓ_0/ℓ_1 -regularized linear inverse problems. IEEE Transactions on Information Theory, 2015, 61, 2081-2100.	1.5	40
22	On the security of random linear measurements. , 2014, , .		38
23	Image Denoising with Graph-Convolutional Neural Networks. , 2019, , .		38
24	Deep Learning Methods For Synthetic Aperture Radar Image Despeckling: An Overview Of Trends And Perspectives. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 29-51.	4.9	38
25	Hyperspectral Image Compression Employing a Model of Anomalous Pixels. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 664-668.	1.4	31
26	Constant SNR, Rate Control, and Entropy Coding for Predictive Lossy Hyperspectral Image Compression. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7431-7441.	2.7	31
27	Large-Scale Image Retrieval Based on Compressed Camera Identification. IEEE Transactions on Multimedia, 2015, 17, 1439-1449.	5.2	29
28	High-Throughput Onboard Hyperspectral Image Compression With Ground-Based CNN Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9544-9553.	2.7	29
29	Learning and Adapting Robust Features for Satellite Image Segmentation on Heterogeneous Data Sets. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6517-6529.	2.7	27
30	Energy-Efficient Coding and Error Control for Wireless Video-Surveillance Networks. Telecommunication Systems, 2004, 26, 369-387.	1.6	26
31	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter's Parker Solar Probe Quadrature. Astrophysical Journal Letters, 2021, 920, L14.	3.0	25
32	Distributed Recovery of Jointly Sparse Signals Under Communication Constraints. IEEE Transactions on Signal Processing, 2016, 64, 3470-3482.	3.2	24
33	Fast and Lightweight Rate Control for Onboard Predictive Coding of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 394-398.	1.4	22
34	Distributed ADMM for In-Network Reconstruction of Sparse Signals With Innovations. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 225-234.	1.6	21
35	Learning Graph-Convolutional Representations for Point Cloud Denoising. Lecture Notes in Computer Science, 2020, , 103-118.	1.0	21
36	Transparent encryption techniques for H.264/AVC and H.264/SVC compressed video. Signal Processing, 2011, 91, 1103-1114.	2.1	20

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37	Learning Localized Representations of Point Clouds With Graph-Convolutional Generative Adversarial Networks. IEEE Transactions on Multimedia, 2021, 23, 402-414.	5.2	20
38	Automatic license plate recognition with convolutional neural networks trained on synthetic data. , 2017, , .		19
39	Learning Robust Graph-Convolutional Representations for Point Cloud Denoising. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 402-414.	7.3	19
40	Denoise and Contrast for Category Agnostic Shape Completion. , 2021, , .		19
41	A syntax-preserving error resilience tool for JPEG 2000 based on error correcting arithmetic coding. IEEE Transactions on Image Processing, 2006, 15, 807-818.	6.0	18
42	Voyager 2 solar plasma and magnetic field spectral analysis for intermediate data sparsity. Journal of Geophysical Research: Space Physics, 2016, 121, 3905-3919.	0.8	17
43	Detection of Coronal Mass Ejections at L1 and Forecast of Their Geoeffectiveness. Astrophysical Journal, 2019, 885, 120.	1.6	17
44	The CCSDS 123.0-B-2 "Low-Complexity Lossless and Near-Lossless Multispectral and Hyperspectral Image Compression" Standard: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 102-119.	4.9	17
45	Distributed Scheduling for Low-Delay and Loss-Resilient Media Streaming With Network Coding. IEEE Transactions on Multimedia, 2014, 16, 2294-2306.	5.2	16
46	Steerable Discrete Fourier Transform. IEEE Signal Processing Letters, 2017, 24, 319-323.	2.1	16
47	Rate-compatible distributed arithmetic coding. IEEE Communications Letters, 2008, 12, 575-577.	2.5	15
48	Operational Rate-Distortion Performance of Single-Source and Distributed Compressed Sensing. IEEE Transactions on Communications, 2014, 62, 2022-2033.	4.9	15
49	Permutation Invariance and Uncertainty in Multitemporal Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	15
50	Joint Geometry and Color Point Cloud Denoising Based on Graph Wavelets. IEEE Access, 2021, 9, 21149-21166.	2.6	14
51	Steerable Discrete Cosine Transform. , 2015, , .		13
52	Predictive graph construction for image compression. , 2015, , .		13
53	Vehicle joint make and model recognition with multiscale attention windows. Signal Processing: Image Communication, 2019, 72, 69-79.	1.8	13
54	Compressive signal processing with circulant sensing matrices. , 2014, , .		12

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55	Compressive Estimation and Imaging Based on Autoregressive Models. IEEE Transactions on Image Processing, 2016, 25, 5077-5087.	6.0	12
56	Convolutional Neural Networks for On-Board Cloud Screening. Remote Sensing, 2019, 11, 1417.	1.8	12
57	Ensuring quality of service for image transmission: hybrid loss protection. IEEE Transactions on Image Processing, 2004, 13, 751-757.	6.0	11
58	Randomized Algorithms for Distributed Nonlinear Optimization Under Sparsity Constraints. IEEE Transactions on Signal Processing, 2016, 64, 1420-1434.	3.2	11
59	Sampling of Graph Signals via Randomized Local Aggregations. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 348-359.	1.6	11
60	Towards Deep Unsupervised Sar Despeckling with Blind-Spot Convolutional Neural Networks. , 2020, , .		11
61	A parallel compressive imaging architecture for one-shot acquisition. , 2013, , .		10
62	Distributed support detection of jointly sparse signals. , 2014, , .		10
63	Compressive hyperspectral imaging using progressive total variation. , 2014, , .		9
64	On the fly estimation of the sparsity degree in Compressed Sensing using sparse sensing matrices. , 2015, , .		9
65	Exploiting color for graph-based 3D point cloud denoising. Journal of Visual Communication and Image Representation, 2021, 75, 103027.	1.7	9
66	On high resolution positioning of straight patterns via multiscale matched filtering of the Hough transform. Pattern Recognition Letters, 2001, 22, 705-713.	2.6	8
67	BioMetricNet: Deep Unconstrained Face Verification Through Learning of Metrics Regularized onto Gaussian Distributions. Lecture Notes in Computer Science, 2020, , 133-149.	1.0	8
68	Graded Quantization for Multiple Description Coding of Compressive Measurements. IEEE Transactions on Communications, 2015, 63, 1648-1660.	4.9	7
69	Curl-Constrained Gradient Estimation for Image Recovery From Highly Incomplete Spectral Data. IEEE Transactions on Image Processing, 2017, 26, 2656-2668.	6.0	7
70	Energy obfuscation for compressive encryption and processing. , 2017, , .		7
71	Optical Compressive Imaging Technologies for Space Big Data. IEEE Transactions on Big Data, 2020, 6, 430-442.	4.4	7
72	Gaussian Mixtures Based IRLS for Sparse Recovery With Quadratic Convergence. IEEE Transactions on Signal Processing, 2015, 63, 3474-3489.	3.2	6

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73	Very Low Latency Architecture for Earth Observation Satellite Onboard Data Handling, Compression, and Encryption. , 2021, , .		6
74	Efficient common-core lossless and lossy image coder based on integer wavelets. Signal Processing, 2001, 81, 403-408.	2.1	5
75	Authnet: Biometric Authentication Through Adversarial Learning. , 2019, , .		5
76	Low-delay peer-to-peer media streaming based on network coding over randomized multicast trees. IEEE Transactions on Multimedia, 2012, 14, 941-945.	5.2	4
77	Parallel rate-distortion optimised fast motion estimation algorithm for H.264/AVC using GPU. , 2013, , .		4
78	A hardware-friendly architecture for onboard rate-controlled predictive coding of hyperspectral and multispectral images. , 2014, , .		4
79	Learning mappings onto regularized latent spaces for biometric authentication. , 2019, , .		4
80	Autoregressive process parameter estimation from compressed sensing measurements. , 2015, , .		3
81	Stable limit cycles in recurrent neural networks. , 2016, , .		3
82	Satellite Image Segmentation with Deep Residual Architectures for Time-Critical Applications. , 2018, , .		3
83	A Novel Framework for Designing Directional Linear Transforms with Application to Video Compression. , 2019, , .		3
84	Algorithms and Prototyping of a Compressive Hyperspectral Imager. , 2017, , 329-350.		3
85	Distributed ADMM for in-network reconstruction of sparse signals with innovations. , 2014, , .		2
86	Compressive Bayesian K-SVD. Signal Processing: Image Communication, 2018, 60, 1-5.	1.8	2
87	Analysis of SparseHash: An efficient embedding of set-similarity via sparse projections. Pattern Recognition Letters, 2019, 128, 93-99.	2.6	2
88	Secrecy Analysis of Finite-Precision Compressive Cryptosystems. IEEE Transactions on Information Forensics and Security, 2020, 15, 1-13.	4.5	2
89	Spatial Light Modulator-Based Architecture to Implement a Super-Resolved Compressive Instrument for Earth Observation. , 2021, , .		2
90	SISSI Project: A Feasibility Study for a Super Resolved Compressive Sensing Multispectral Imager in the Medium Infrared. Engineering Proceedings, 2021, 8, 28.	0.4	2

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91	VLSI Architecture for Low-Complexity Motion Estimation in H.264 Multiview Video Coding. , 2013, , .		1
92	Dictionary design for sensor network localization via block-sparsity. , 2015, , .		1
93	Subspace-sparsifying steerable discrete cosine transform from graph fourier transform. , 2016, , .		1
94	Fine-grained vehicle classification using deep residual networks with multiscale attention windows. , 2017, , .		1
95	Onboard payload data compression and processing for spaceborne imaging. International Journal of Remote Sensing, 2018, 39, 1951-1952.	1.3	1
96	Spotlight on the Multimedia Signal Processing Technical Committee [In the Spotlight]. IEEE Signal Processing Magazine, 2019, 36, 128-126.	4.6	1
97	Adversarial Learning of Mappings Onto Regularized Spaces for Biometric Authentication. IEEE Access, 2020, 8, 149316-149331.	2.6	1
98	RAN-GNNs: Breaking the Capacity Limits of Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-10.	7.2	1
99	Designing a Compressive Sensing Demonstrator of an Earth Observation Payload in the Visible and Medium Infrared: Instrumental Concept and Main Features. Engineering Proceedings, 2021, 8, .	0.4	1
100	Detection of Solar Coronal Mass Ejections from Raw Images with Deep Convolutional Neural Networks. , 2020, , .		1
101	Trends in Multimedia Signal Processing [In the Spotlight]. IEEE Signal Processing Magazine, 2011, 28, 197-198.	4.6	0
102	Introduction to the Issue on Interactive Media Processing for Immersive Communication. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 381-383.	7.3	0
103	Low-power distributed sparse recovery testbed on wireless sensor networks. , 2016, , .		0
104	Compressive classification based on autoregressive features. , 2016, , .		0
105	High-Level Synthesis of a Single/Multi-Band Optical and SAR Image Compression and Encryption Hardware Accelerator. , 2021, , .		0