Enrico Magli

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2826311/publications.pdf

Version: 2024-02-01

105	2,636	218381	214527
papers	citations	26 h-index	47 g-index

106	106	106	2098
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Permutation Invariance and Uncertainty in Multitemporal Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	15
3	Learning Localized Representations of Point Clouds With Graph-Convolutional Generative Adversarial Networks. IEEE Transactions on Multimedia, 2021, 23, 402-414.	5.2	20
4	Joint Geometry and Color Point Cloud Denoising Based on Graph Wavelets. IEEE Access, 2021, 9, 21149-21166.	2.6	14
5	Learning Robust Graph-Convolutional Representations for Point Cloud Denoising. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 402-414.	7.3	19
6	Exploiting color for graph-based 3D point cloud denoising. Journal of Visual Communication and Image Representation, 2021, 75, 103027.	1.7	9
7	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
8	The CCSDS 123.0-B-2 â€œLow-Complexity Lossless and Near-Lossless Multispectral and Hyperspectral Image Compressionâ€•Standard: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 102-119.	4.9	17
9	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
10	Very Low Latency Architecture for Earth Observation Satellite Onboard Data Handling, Compression, and Encryption. , 2021, , .		6
11	High-Level Synthesis of a Single/Multi-Band Optical and SAR Image Compression and Encryption Hardware Accelerator. , 2021, , .		0
12	Spatial Light Modulator-Based Architecture to Implement a Super-Resolved Compressive Instrument for Earth Observation. , 2021, , .		2
13	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiterâ€“Parker Solar Probe Quadrature. Astrophysical Journal Letters, 2021, 920, L14.	3.0	25
14	Denoise and Contrast for Category Agnostic Shape Completion. , 2021, , .		19
15	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
16	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
17	Secrecy Analysis of Finite-Precision Compressive Cryptosystems. IEEE Transactions on Information Forensics and Security, 2020, 15, 1-13.	4.5	2
18	Optical Compressive Imaging Technologies for Space Big Data. IEEE Transactions on Big Data, 2020, 6, 430-442.	4.4	7

#	Article	IF	Citations
19	Adversarial Learning of Mappings Onto Regularized Spaces for Biometric Authentication. IEEE Access, 2020, 8, 149316-149331.	2.6	1
20	Deep Graph-Convolutional Image Denoising. IEEE Transactions on Image Processing, 2020, 29, 8226-8237.	6.0	105
21	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
22	Metis: the Solar Orbiter visible light and ultraviolet coronal imager. Astronomy and Astrophysics, 2020, 642, A10.	2.1	115
23	BioMetricNet: Deep Unconstrained Face Verification Through Learning of Metrics Regularized onto Gaussian Distributions. Lecture Notes in Computer Science, 2020, , 133-149.	1.0	8
24	Learning Graph-Convolutional Representations for Point Cloud Denoising. Lecture Notes in Computer Science, 2020, , 103-118.	1.0	21
25	Towards Deep Unsupervised Sar Despeckling with Blind-Spot Convolutional Neural Networks. , 2020, , .		11
26	Detection of Solar Coronal Mass Ejections from Raw Images with Deep Convolutional Neural Networks. , 2020, , .		1
27	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
28	A Novel Framework for Designing Directional Linear Transforms with Application to Video Compression. , 2019, , .		3
29	Convolutional Neural Networks for On-Board Cloud Screening. Remote Sensing, 2019, 11, 1417.	1.8	12
30	Image Denoising with Graph-Convolutional Neural Networks. , 2019, , .		38
31	Detection of Coronal Mass Ejections at L1 and Forecast of Their Geoeffectiveness. Astrophysical Journal, 2019, 885, 120.	1.6	17
32	Analysis of SparseHash: An efficient embedding of set-similarity via sparse projections. Pattern Recognition Letters, 2019, 128, 93-99.	2.6	2
33	Spotlight on the Multimedia Signal Processing Technical Committee [In the Spotlight]. IEEE Signal Processing Magazine, 2019, 36, 128-126.	4.6	1
34	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
35	Robust license plate recognition using neural networks trained on synthetic images. Pattern Recognition, 2019, 93, 134-146.	5.1	50
36	Authnet: Biometric Authentication Through Adversarial Learning. , 2019, , .		5

#	Article	IF	Citations
37	Learning mappings onto regularized latent spaces for biometric authentication. , 2019, , .		4
38	Vehicle joint make and model recognition with multiscale attention windows. Signal Processing: Image Communication, 2019, 72, 69-79.	1.8	13
39	Sampling of Graph Signals via Randomized Local Aggregations. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 348-359.	1.6	11
40	Graph Spectral Image Processing. Proceedings of the IEEE, 2018, 106, 907-930.	16.4	166
41	Onboard payload data compression and processing for spaceborne imaging. International Journal of Remote Sensing, 2018, 39, 1951-1952.	1.3	1
42	Compressive Bayesian K-SVD. Signal Processing: Image Communication, 2018, 60, 1-5.	1.8	2
43	Satellite Image Segmentation with Deep Residual Architectures for Time-Critical Applications. , 2018, , .		3
44	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
45	Steerable Discrete Fourier Transform. IEEE Signal Processing Letters, 2017, 24, 319-323.	2.1	16
46	User Authentication via PRNU-Based Physical Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2017, 12, 1941-1956.	4.5	51
47	Curl-Constrained Gradient Estimation for Image Recovery From Highly Incomplete Spectral Data. IEEE Transactions on Image Processing, 2017, 26, 2656-2668.	6.0	7
48	Automatic license plate recognition with convolutional neural networks trained on synthetic data. , 2017, , .		19
49	Fine-grained vehicle classificationusing deep residual networks with multiscale attention windows. , 2017, , .		1
50	Energy obfuscation for compressive encryption and processing. , 2017, , .		7
51	Algorithms and Prototyping of a Compressive Hyperspectral Imager. , 2017, , 329-350.		3
52	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
53	Low-power distributed sparse recovery testbed on wireless sensor networks. , 2016, , .		0
54	Distributed Recovery of Jointly Sparse Signals Under Communication Constraints. IEEE Transactions on Signal Processing, 2016, 64, 3470-3482.	3.2	24

#	Article	IF	Citations
55	Compressive Estimation and Imaging Based on Autoregressive Models. IEEE Transactions on Image Processing, 2016, 25, 5077-5087.	6.0	12
56	Stable limit cycles in recurrent neural networks. , 2016, , .		3
57	Compressive classification based on autoregressive features. , 2016, , .		0
58	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
59	Subspace-sparsifying steerable discrete cosine transform from graph fourier transform. , 2016, , .		1
60	Randomized Algorithms for Distributed Nonlinear Optimization Under Sparsity Constraints. IEEE Transactions on Signal Processing, 2016, 64, 1420-1434.	3.2	11
61	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
62	Autoregressive process parameter estimation from compressed sensing measurements. , 2015, , .		3
63	Dictionary design for sensor network localization via block-sparsity. , 2015, , .		1
64	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
65	Steerable Discrete Cosine Transform. , 2015, , .		13
66	Predictive graph construction for image compression. , 2015, , .		13
67	Distributed iterative thresholding for â„“₀/â„“₁-regularized linear inverse problems. IEEE Transactions on Information Theory, 2015, 61, 2081-2100.	1.5	40
68	Compressed Fingerprint Matching and Camera Identification via Random Projections. IEEE Transactions on Information Forensics and Security, 2015, 10, 1472-1485.	4.5	65
69	Graded Quantization for Multiple Description Coding of Compressive Measurements. IEEE Transactions on Communications, 2015, 63, 1648-1660.	4.9	7
70	Gaussian Mixtures Based IRLS for Sparse Recovery With Quadratic Convergence. IEEE Transactions on Signal Processing, 2015, 63, 3474-3489.	3.2	6
71	Large-Scale Image Retrieval Based on Compressed Camera Identification. IEEE Transactions on Multimedia, 2015, 17, 1439-1449.	5.2	29
72	On the fly estimation of the sparsity degree in Compressed Sensing using sparse sensing matrices. , 2015, , .		9

#	Article	IF	Citations
73	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
74	A hardware-friendly architecture for onboard rate-controlled predictive coding of hyperspectral and multispectral images. , 2014, , .		4
75	Distributed Scheduling for Low-Delay and Loss-Resilient Media Streaming With Network Coding. IEEE Transactions on Multimedia, 2014, 16, 2294-2306.	5.2	16
76	Distributed ADMM for in-network reconstruction of sparse signals with innovations. , 2014, , .		2
77	Compressive hyperspectral imaging using progressive total variation. , 2014, , .		9
78	On the security of random linear measurements. , 2014, , .		38
79	Distributed support detection of jointly sparse signals. , 2014, , .		10
80	Compressive signal processing with circulant sensing matrices. , 2014, , .		12
81	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
82	A Tutorial on Image Compression for Optical Space Imaging Systems. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-26.	4.9	90
83	Operational Rate-Distortion Performance of Single-Source and Distributed Compressed Sensing. IEEE Transactions on Communications, 2014, 62, 2022-2033.	4.9	15
84	VLSI Architecture for Low-Complexity Motion Estimation in H.264 Multiview Video Coding. , 2013, , .		1
85	Network Coding Meets Multimedia: A Review. IEEE Transactions on Multimedia, 2013, 15, 1195-1212.	5.2	84
86	A parallel compressive imaging architecture for one-shot acquisition. , 2013, , .		10
87	Parallel rate-distortion optimised fast motion estimation algorithm for H.264/AVC using GPU. , 2013, , .		4
88	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
89	Trends in Multimedia Signal Processing [In the Spotlight]. IEEE Signal Processing Magazine, 2011, 28, 197-198.	4.6	0
90	Transparent encryption techniques for H.264/AVC and H.264/SVC compressed video. Signal Processing, 2011, 91, 1103-1114.	2.1	20

#	Article	IF	Citations
91	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
92	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
93	Multiband Lossless Compression of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1168-1178.	2.7	50
94	Distributed Arithmetic Coding for the Slepianâ€“Wolf Problem. IEEE Transactions on Signal Processing, 2009, 57, 2245-2257.	3.2	46
95	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
96	Rate-compatible distributed arithmetic coding. IEEE Communications Letters, 2008, 12, 575-577.	2.5	15
97	Distributed Arithmetic Coding. IEEE Communications Letters, 2007, 11, 883-885.	2.5	40
98	Transform Coding Techniques for Lossy Hyperspectral Data Compression. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1408-1421.	2.7	253
99	Hyperspectral Image Compression Employing a Model of Anomalous Pixels. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 664-668.	1.4	31
100	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
101	Ensuring quality of service for image transmission: hybrid loss protection. IEEE Transactions on Image Processing, 2004, 13, 751-757.	6.0	11
102	Energy-Efficient Coding and Error Control for Wireless Video-Surveillance Networks. Telecommunication Systems, 2004, 26, 369-387.	1.6	26
103	Optimization and implementation of the integer wavelet transform for image coding. IEEE Transactions on Image Processing, 2002, 11, 596-604.	6.0	71
104	Efficient common-core lossless and lossy image coder based on integer wavelets. Signal Processing, 2001, 81, 403-408.	2.1	5
105	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