

Diego Valsesia

List of Publications by Year in descending order

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47
papers

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citations

623574

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23
g-index

50
all docs

50
docs citations

50
times ranked

661
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Graph-Convolutional Image Denoising. IEEE Transactions on Image Processing, 2020, 29, 8226-8237.	6.0	105
2	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
3	Compressed Fingerprint Matching and Camera Identification via Random Projections. IEEE Transactions on Information Forensics and Security, 2015, 10, 1472-1485.	4.5	65
4	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
5	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
6	User Authentication via PRNU-Based Physical Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2017, 12, 1941-1956.	4.5	51
7	Image Denoising with Graph-Convolutional Neural Networks. , 2019, , .		38
8	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
9	Large-Scale Image Retrieval Based on Compressed Camera Identification. IEEE Transactions on Multimedia, 2015, 17, 1439-1449.	5.2	29
10	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
11	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
12	Learning Graph-Convolutional Representations for Point Cloud Denoising. Lecture Notes in Computer Science, 2020, , 103-118.	1.0	21
13	Learning Localized Representations of Point Clouds With Graph-Convolutional Generative Adversarial Networks. IEEE Transactions on Multimedia, 2021, 23, 402-414.	5.2	20
14	Learning Robust Graph-Convolutional Representations for Point Cloud Denoising. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 402-414.	7.3	19
15	Denoise and Contrast for Category Agnostic Shape Completion. , 2021, , .		19
16	Universal encoding of multispectral images. , 2016, , .		17
17	Permutation Invariance and Uncertainty in Multitemporal Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	15
18	Compressive signal processing with circulant sensing matrices. , 2014, , .		12

#	ARTICLE	IF	CITATIONS
19	Binary Adaptive Embeddings From Order Statistics of Random Projections. IEEE Signal Processing Letters, 2017, 24, 111-115.	2.1	12
20	Compressed Sensing for Privacy-Preserving Data Processing. Springer Briefs in Electrical and Computer Engineering, 2019, , .	0.3	11
21	Sampling of Graph Signals via Randomized Local Aggregations. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 348-359.	1.6	11
22	Towards Deep Unsupervised Sar Despeckling with Blind-Spot Convolutional Neural Networks. , 2020, , .		11
23	Deepsum++: Non-Local Deep Neural Network for Super-Resolution of Unregistered Multitemporal Images. , 2020, , .		11
24	Smoothness-constrained image recovery from block-based random projections. , 2013, , .		8
25	Graded Quantization for Multiple Description Coding of Compressive Measurements. IEEE Transactions on Communications, 2015, 63, 1648-1660.	4.9	7
26	Multispectral image compression using universal vector quantization. , 2016, , .		6
27	Joint recovery algorithms using difference of innovations for distributed compressed sensing. , 2013, , .		5
28	NIR image colorization with graph-convolutional neural networks. , 2020, , .		5
29	A hardware-friendly architecture for onboard rate-controlled predictive coding of hyperspectral and multispectral images. , 2014, , .		4
30	SparseHash: Embedding Jaccard coefficient between supports of signals. , 2016, , .		4
31	Point Cloud Normal Estimation with Graph-Convolutional Neural Networks. , 2020, , .		4
32	Spatially scalable compressed image sensing with hybrid transform and inter-layer prediction model. , 2013, , .		3
33	Scale-robust compressive camera fingerprint matching with random projections. , 2015, , .		2
34	Analysis of SparseHash: An efficient embedding of set-similarity via sparse projections. Pattern Recognition Letters, 2019, 128, 93-99.	2.6	2
35	Deep Learning For Super-Resolution Of Unregistered Multi-Temporal Satellite Images. , 2019, , .		2
36	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

#	ARTICLE	IF	CITATIONS
37	Graded quantization: Democracy for multiple descriptions in compressed sensing. , 2013, , .		1
38	Image retrieval based on compressed camera sensor fingerprints. , 2015, , .		1
39	Onboard payload data compression and processing for spaceborne imaging. International Journal of Remote Sensing, 2018, 39, 1951-1952.	1.3	1
40	ToothPic: Camera-Based Image Retrieval on Large Scales. IEEE MultiMedia, 2019, 26, 33-43.	1.5	1
41	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
42	Compressed Sensing as a Cryptosystem. Springer Briefs in Electrical and Computer Engineering, 2019, , 25-71.	0.3	1
43	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
44	Detection of Solar Coronal Mass Ejections from Raw Images with Deep Convolutional Neural Networks. , 2020, , .		1
45	Toothpic: Who took this picture?., 2016, , .		0
46	Compressed Sensing and Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 7-24.	0.3	0
47	Privacy-Preserving Embeddings. Springer Briefs in Electrical and Computer Engineering, 2019, , 73-90.	0.3	0