Abderrahim Halimi

List of Publications by Year
in descending order

66	1,930	304743 22	454955 30
papers	citations	h-index	g-index

66	66	66	1016
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Task-Based Adaptive Sampling for 3D Single-Photon Multispectral Lidar Data. IEEE Transactions on Computational Imaging, 2022, 8, 174-187.	4.4	5
2	A Bayesian Based Deep Unrolling Algorithm for Single-Photon Lidar Systems. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 762-774.	10.8	9
3	Robust Bayesian Reconstruction of Multispectral Single-Photon 3D Lidar Data with Non-Uniform Background. , 2022, , .		0
4	Robust super-resolution depth imaging via a multi-feature fusion deep network. Optics Express, 2021, 29, 11917.	3.4	24
5	Robust real-time 3D imaging of moving scenes through atmospheric obscurant using single-photon LiDAR. Scientific Reports, 2021, 11, 11236.	3.3	51
6	Fast Classification and Depth Estimation for Multispectral Single-Photon LiDAR Data. , 2021, , .		0
7	High-speed object detection with a single-photon time-of-flight image sensor. Optics Express, 2021, 29, 33184.	3.4	18
8	Multivariate semi-blind deconvolution of fMRI time series. NeuroImage, 2021, 241, 118418.	4.2	12
9	Single-photon lidar used in extreme imaging scenarios. , 2021, , .		1
10	Robust and Guided Bayesian Reconstruction of Single-Photon 3D Lidar Data: Application to Multispectral and Underwater Imaging. IEEE Transactions on Computational Imaging, 2021, 7, 961-974.	4.4	22
11	Robust and Guided Super-resolution for Single-Photon Depth Imaging via a Deep Network. , 2021, , .		0
12	Robust Restoration of Sparse Multidimensional Single-Photon LiDAR Images. IEEE Transactions on Computational Imaging, 2020, 6, 138-152.	4.4	27
13	Learning Non-Local Spatial Correlations To Restore Sparse 3D Single-Photon Data. IEEE Transactions on Image Processing, 2020, 29, 3119-3131.	9.8	25
14	Fast Surface Detection Using Single-Photon Detection Events. , 2020, , .		3
15	Full Waveform LiDAR for Adverse Weather Conditions. IEEE Transactions on Vehicular Technology, 2020, 69, 7064-7077.	6.3	71
16	3D LIDAR imaging using Ge-on-Si singleâ€“photon avalanche diode detectors. Optics Express, 2020, 28, 1330.	3.4	45
17	High-speed 3D sensing via hybrid-mode imaging and guided upsampling. Optica, 2020, 7, 1253.	9.3	58
18	Ge-on-Si Single Photon Avalanche Diode Detectors for LIDAR in the Short Wave Infrared. , 2020, , .		1

#	Article	IF	Citations
19	Joint Reconstruction of Multitemporal or Multispectral Single-Photon 3D LiDAR Images. , 2019, , .		0
20	Long-range depth imaging using a single-photon detector array and non-local data fusion. Scientific Reports, 2019, 9, 8075.	3.3	46
21	Sparsity-based Blind Deconvolution of Neural Activation Signal in FMRI. , 2019, , .		11
22	fMRI BOLD signal decomposition using a multivariate low-rank model. , 2019, , .		0
23	Fast Adaptive Scene Sampling for Single-Photon 3D Lidar Images. , 2019, , .		6
24	Non-Local Restoration Of Sparse 3d Single-Photon Data. , 2019, , .		1
25	Three-dimensional single-photon imaging through obscurants. Optics Express, 2019, 27, 4590.	3.4	102
26	Restoration of Multilayered Single-Photon 3D Lidar Images. , 2018, , .		1
27	High-resolution depth profiling using a range-gated CMOS SPAD quanta image sensor. Optics Express, 2018, 26, 5541.	3.4	75
28	Three-Dimensional Imaging Under Extreme Conditions Using Single-Photon Counting. , 2018, , .		0
29	Depth imaging through obscurants using time-correlated single-photon counting. , 2018, , .		0
30	Comparative assessment of different active imaging technologies for imaging through obscurants. , 2018, , .		1
31	Denoising Smooth Signals Using a Bayesian Approach: Application to Altimetry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1278-1289.	4.9	5
32	Object Depth Profile and Reflectivity Restoration From Sparse Single-Photon Data Acquired in Underwater Environments. IEEE Transactions on Computational Imaging, 2017, 3, 472-484.	4.4	78
33	Fast Hyperspectral Unmixing in Presence of Nonlinearity or Mismodeling Effects. IEEE Transactions on Computational Imaging, 2017, 3, 146-159.	4.4	46
34	Fast hyperspectral unmixing in presence of sparse multiple scattering nonlinearities. , 2017, , .		0
35	Correntropy Maximization via ADMM: Application to Robust Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4944-4955.	6.3	22
36	Restoration of depth and intensity images using a graph laplacian regularization. , 2017, , .		2

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37	Restoration of multilayered single-photon 3D Lidar images. , 2017, , .		12
38	Single-photon three-dimensional imaging at up to 10 kilometers range. Optics Express, 2017, 25, 11919.	3.4	245
39	Underwater Three-Dimensional Imaging using Single-Photon Detection. , 2017, , .		2
40	Filtering smooth altimetric signals using a Bayesian algorithm. , 2016, , .		0
41	Restoration of intensity and depth images constructed using sparse single-photon data. , 2016, , .		34
42	ADMM for maximum correntropy criterion. , 2016, , .		0
43	Hyperspectral Unmixing in Presence of Endmember Variability, Nonlinearity, or Mismodeling Effects. IEEE Transactions on Image Processing, 2016, 25, 4565-4579.	9.8	63
44	Robust Unmixing Algorithms for Hyperspectral Imagery. , 2016, , .		3
45	Depth imaging in highly scattering underwater environments using time-correlated single-photon counting. Proceedings of SPIE, 2016, , .	0.8	6
46	Efficient Range Estimation and Material Quantification from Multispectral Lidar Waveforms. , 2016, , .		9
47	Robust hyperspectral unmixing accounting for residual components. , 2016, , .		0
48	Nonlinear hyperspectral unmixing accounting for spatial illumination variability. , 2016, , .		0
49	Estimating the Intrinsic Dimension of Hyperspectral Images Using a Noise-Whitened Eigengap Approach. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3811-3821.	6.3	20
50	Bayesian Estimation of Smooth Altimetric Parameters: Application to Conventional and Delay/Doppler Altimetry. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2207-2219.	6.3	22
51	Hyperspectral unmixing accounting for spatial correlations and endmember variability. , 2015, , .		0
52	Unmixing multitemporal hyperspectral images accounting for endmember variability. , 2015, , .		5
53	Nonlinear regression using smooth Bayesian estimation. , 2015, , .		5
54	A new Bayesian unmixing algorithm for hyperspectral images mitigating endmember variability. , 2015, , .		5

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55	Unsupervised Unmixing of Hyperspectral Images Accounting for Endmember Variability. IEEE Transactions on Image Processing, 2015, 24, 4904-4917.	9.8	53
56	Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 598-608.	6.3	15
57	A generalized semi-analytical model for delay/Doppler altimetry. , 2014, , .		1
58	A Semi-Analytical Model for Delay/Doppler Altimetry and Its Estimation Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4248-4258.	6.3	32
59	Parameter Estimation for Peaky Altimetric Waveforms. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1568-1577.	6.3	32
60	Supervised Nonlinear Spectral Unmixing Using a Postnonlinear Mixing Model for Hyperspectral Imagery. IEEE Transactions on Image Processing, 2012, 21, 3017-3025.	9.8	190
61	Nonlinear Unmixing of Hyperspectral Images Using a Generalized Bilinear Model. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4153-4162.	6.3	329
62	Nonlinear unmixing of hyperspectral images using a generalized bilinear model. , 2011, , .		6
63	A post nonlinear mixing model for hyperspectral images unmixing. , 2011, , .		6
64	Supervised nonlinear spectral unmixing using a polynomial post nonlinear model for hyperspectral imagery. , 2011, , .		20
65	A new model for peaky altimetric waveforms. , 2011, , .		3
66	Unmixing hyperspectral images using the generalized bilinear model. , 2011, , .		44