

Petros T Boufounos

List of Publications by Year in descending order

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100
papers

3,083
citations

516215

16
h-index

476904

29
g-index

100
all docs

100
docs citations

100
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and High-Quality Blind Multi-Spectral Image Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	1
2	Learning-Based Extended Object Tracking Using Hierarchical Truncation Measurement Model With Automotive Radar. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1013-1029.	7.3	19
3	Extended Object Tracking with Spatial Model Adaptation Using Automotive Radar. , 2021, , .		0
4	Blind Multi-Spectral Image Pan-Sharpener. , 2020, , .		2
5	High-Contrast Reflection Tomography With Total-Variation Constraints. IEEE Transactions on Computational Imaging, 2020, 6, 1523-1536.	2.6	2
6	Distributed Coding of Quantized Random Projections. IEEE Transactions on Signal Processing, 2020, 68, 5924-5939.	3.2	0
7	Extended Object Tracking Using Hierarchical Truncation Model with Partial-View Measurements. , 2020, , .		4
8	Graph-Based Array Signal Denoising for Perturbed Synthetic Aperture Radar. , 2020, , .		2
9	Unrolled Projected Gradient Descent for Multi-spectral Image Fusion. , 2019, , .		15
10	Robust Mutual Information-Based Multi-Image Registration. , 2019, , .		5
11	SEAGLE: Sparsity-Driven Image Reconstruction Under Multiple Scattering. IEEE Transactions on Computational Imaging, 2018, 4, 73-86.	2.6	55
12	Accelerated Image Reconstruction for Nonlinear Diffractive Imaging. , 2018, , .		9
13	Robust Sensor Localization Based on Euclidean Distance Matrix. , 2018, , .		6
14	Radar Autofocus Using Sparse Blind Deconvolution. , 2018, , .		10
15	Sparse Blind Deconvolution for Distributed Radar Autofocus Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 537-551.	2.6	15
16	Deepcasd: An End-to-End Approach for Multi-Spectral Image Super-Resolution. , 2018, , .		11
17	High-Resolution Lidar Using Random Demodulation. , 2018, , .		0
18	Motion-Adaptive Depth Superresolution. IEEE Transactions on Image Processing, 2017, 26, 1723-1731.	6.0	5

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19	Distributed coding of multispectral images. , 2017, , .		2
20	Sparse Sensing and DMD-Based Identification of Flow Regimes and Bifurcations in Complex Flows. SIAM Journal on Applied Dynamical Systems, 2017, 16, 1164-1196.	0.7	67
21	Representation and coding of signal geometry. Information and Inference, 2017, 6, 349-388.	0.9	8
22	Online convolutional dictionary learning for multimodal imaging. , 2017, , .		17
23	Compressive imaging with iterative forward models. , 2017, , .		3
24	Fusion of multi-angular aerial images based on epipolar geometry and matrix completion. , 2017, , .		4
25	On angular-domain channel estimation for one-bit massive MIMO systems with fixed and time-varying thresholds. , 2017, , .		21
26	Embedding-Based Representation of Signal Geometry. Applied and Numerical Harmonic Analysis, 2017, , 155-178.	0.1	0
27	Dimensionality reduction of visual features for efficient retrieval and classification. APSIPA Transactions on Signal and Information Processing, 2016, 5, .	2.6	2
28	Depth superresolution using motion adaptive regularization. , 2016, , .		4
29	Online blind deconvolution for sequential through-the-wall-radar-imaging. , 2016, , .		2
30	Coherent distributed array imaging under unknown position perturbations. , 2016, , .		5
31	Compressive tomographic radar imaging with total variation regularization. , 2016, , .		6
32	Universal encoding of multispectral images. , 2016, , .		17
33	A Deep Neural Network Architecture Using Dimensionality Reduction with Sparse Matrices. Lecture Notes in Computer Science, 2016, , 397-404.	1.0	2
34	Learning-based reduced order model stabilization for partial differential equations: Application to the coupled Burgers' equation. , 2016, , .		3
35	Multispectral image compression using universal vector quantization. , 2016, , .		6
36	A Recursive Born Approach to Nonlinear Inverse Scattering. IEEE Signal Processing Letters, 2016, 23, 1052-1056.	2.1	45

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37	Autocalibration of lidar and optical cameras via edge alignment. , 2016, , .		56
38	Learning Model-Based Sparsity via Projected Gradient Descent. IEEE Transactions on Information Theory, 2016, 62, 2092-2099.	1.5	27
39	Exploring the Resolution Limit for In-Air Synthetic-Aperture Audio Imaging. , 2015, , .		0
40	Sparsity-driven distributed array imaging. , 2015, , .		8
41	Universal embeddings for kernel machine classification. , 2015, , .		4
42	Coded aperture compressive 3-D LIDAR. , 2015, , .		7
43	Whatâ€™s the Frequency, Kenneth?: Sublinear Fourier Sampling Off the Grid. Algorithmica, 2015, 73, 261-288.	1.0	3
44	Kernel Machine Classification Using Universal Embeddings. , 2015, , .		0
45	Quantization and Compressive Sensing. Applied and Numerical Harmonic Analysis, 2015, , 193-237.	0.1	37
46	Video querying via compact descriptors of visually salient objects. , 2014, , .		9
47	On the theoretical analysis of cross validation in compressive sensing. , 2014, , .		12
48	Compressive sensing based 3D SAR imaging with multi-PRF baselines. , 2014, , .		4
49	Sparse MIMO architectures for through-the-wall imaging. , 2014, , .		5
50	Privacy-preserving nearest neighbor methods: comparing signals without revealing them. IEEE Signal Processing Magazine, 2013, 30, 18-28.	4.6	55
51	Robust 1-Bit Compressive Sensing via Binary Stable Embeddings of Sparse Vectors. IEEE Transactions on Information Theory, 2013, 59, 2082-2102.	1.5	484
52	Efficient Coding of Signal Distances Using Universal Quantized Embeddings. , 2013, , .		19
53	Angle-preserving quantized phase embeddings. , 2013, , .		7
54	Synthetic aperture imaging using a randomly steered spotlight. , 2013, , .		3

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55	Embedding-based representation of signal distances. , 2013, , .		0
56	Random steerable arrays for synthetic aperture imaging. , 2013, , .		4
57	Source localization in reverberant environments using sparse optimization. , 2013, , .		14
58	Quantized embeddings: an efficient and universal nearest neighbor method for cloud-based image retrieval. , 2013, , .		7
59	A compressive phase-locked loop. , 2012, , .		6
60	Depth sensing using active coherent illumination. , 2012, , .		7
61	Quantized embeddings of scale-invariant image features for mobile augmented reality. , 2012, , .		12
62	Dictionary learning based pan-sharpening. , 2012, , .		13
63	Pan-sharpening with multi-scale wavelet dictionary. , 2012, , .		4
64	Universal Rate-Efficient Scalar Quantization. IEEE Transactions on Information Theory, 2012, 58, 1861-1872.	1.5	86
65	What's the Frequency, Kenneth?: Sublinear Fourier Sampling Off the Grid. Lecture Notes in Computer Science, 2012, , 61-72.	1.0	22
66	Secure binary embeddings for privacy preserving nearest neighbors. , 2011, , .		41
67	Joint sparsity models for wideband array processing. , 2011, , .		17
68	Sparse Recovery From Combined Fusion Frame Measurements. IEEE Transactions on Information Theory, 2011, 57, 3864-3876.	1.5	60
69	Democracy in action: Quantization, saturation, and compressive sensing. Applied and Computational Harmonic Analysis, 2011, 31, 429-443.	1.1	217
70	Saturation-robust SAR image formation. , 2011, , .		3
71	High resolution SAR imaging using random pulse timing. , 2011, , .		4
72	Distributed compression of zerotrees of wavelet coefficients. , 2011, , .		7

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73	Compressive Sensing for over-the-air ultrasound. , 2011, , .		10
74	Greedy sparsity-constrained optimization. , 2011, , .		12
75	Low complexity efficient raw SAR data compression. , 2011, , .		1
76	Compressive Sensing for streaming signals using the Streaming Greedy Pursuit. , 2010, , .		5
77	A wideband compressive radio receiver. , 2010, , .		22
78	Signal Processing With Compressive Measurements. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 445-460.	7.3	510
79	Streaming Compressive Sensing for high-speed periodic videos. , 2010, , .		16
80	Reconstruction of sparse signals from distorted randomized measurements. , 2010, , .		30
81	Average case analysis of sparse recovery from combined fusion frame measurements. , 2010, , .		1
82	Compressive sampling for streaming signals with sparse frequency content. , 2010, , .		19
83	Wyner-Ziv coding of multispectral images for space and airborne platforms. , 2010, , .		5
84	Compressed sensing for fusion frames. Proceedings of SPIE, 2009, , .	0.8	2
85	Greedy sparse signal reconstruction from sign measurements. , 2009, , .		92
86	Causal Compensation for Erasures in Frame Representations. IEEE Transactions on Signal Processing, 2008, 56, 1071-1082.	3.2	9
87	1-Bit compressive sensing. , 2008, , .		422
88	Post-silicon timing characterization by compressed sensing. , 2008, , .		19
89	Noninvasive leakage power tomography of integrated circuits by compressive sensing. , 2008, , .		14
90	Reconstructing sparse signals from their zero crossings. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12

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91	Generating Binary Processes with all-Pole Spectra. , 2007, , .		6
92	Sigma delta quantization for compressive sensing. Proceedings of SPIE, 2007, , .	0.8	17
93	Position and Trajectory Learning for Microphone Arrays. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 358-368.	3.8	30
94	Sparse Signal Reconstruction from Noisy Compressive Measurements using Cross Validation. , 2007, , .		90
95	Quantization of Sparse Representations. , 2007, , .		34
96	Quantization Noise Shaping on Arbitrary Frame Expansions. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	19
97	Basecalling using hidden Markov models. Journal of the Franklin Institute, 2004, 341, 23-36.	1.9	16
98	Economics of Dynamic Pricing in a Reputation Brokered Agent Mediated Marketplace. Electronic Commerce Research, 2001, 1, 85-100.	3.0	6
99	Quantization Noise Shaping on Arbitrary Frame Expansions. , 0, , .		3
100	Learning source trajectories using wrapped-phase hidden Markov models. , 0, , .		22