

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	Signal Processing With Compressive Measurements. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 445-460.	7.3	510
2	Robust 1-Bit Compressive Sensing via Binary Stable Embeddings of Sparse Vectors. IEEE Transactions on Information Theory, 2013, 59, 2082-2102.	1.5	484
3	1-Bit compressive sensing. , 2008, , .		422
4	Democracy in action: Quantization, saturation, and compressive sensing. Applied and Computational Harmonic Analysis, 2011, 31, 429-443.	1.1	217
5	Greedy sparse signal reconstruction from sign measurements. , 2009, , .		92
6	Sparse Signal Reconstruction from Noisy Compressive Measurements using Cross Validation. , 2007, , .		90
7	Universal Rate-Efficient Scalar Quantization. IEEE Transactions on Information Theory, 2012, 58, 1861-1872.	1.5	86
8	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
9	Sparse Recovery From Combined Fusion Frame Measurements. IEEE Transactions on Information Theory, 2011, 57, 3864-3876.	1.5	60
10	Autocalibration of lidar and optical cameras via edge alignment. , 2016, , .		56
11	Privacy-preserving nearest neighbor methods: comparing signals without revealing them. IEEE Signal Processing Magazine, 2013, 30, 18-28.	4.6	55
12	SEAGLE: Sparsity-Driven Image Reconstruction Under Multiple Scattering. IEEE Transactions on Computational Imaging, 2018, 4, 73-86.	2.6	55
13	A Recursive Born Approach to Nonlinear Inverse Scattering. IEEE Signal Processing Letters, 2016, 23, 1052-1056.	2.1	45
14	Secure binary embeddings for privacy preserving nearest neighbors. , 2011, , .		41
15	Quantization and Compressive Sensing. Applied and Numerical Harmonic Analysis, 2015, , 193-237.	0.1	37
16	Quantization of Sparse Representations. , 2007, , .		34
17	Position and Trajectory Learning for Microphone Arrays. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 358-368.	3.8	30
18	Reconstruction of sparse signals from distorted randomized measurements. , 2010, , .		30

#	ARTICLE	IF	CITATIONS
19	Learning Model-Based Sparsity via Projected Gradient Descent. IEEE Transactions on Information Theory, 2016, 62, 2092-2099.	1.5	27
20	Learning source trajectories using wrapped-phase hidden Markov models. , 0, , .		22
21	A wideband compressive radio receiver. , 2010, , .		22
22	What's the Frequency, Kenneth?: Sublinear Fourier Sampling Off the Grid. Lecture Notes in Computer Science, 2012, , 61-72.	1.0	22
23	On angular-domain channel estimation for one-bit massive MIMO systems with fixed and time-varying thresholds. , 2017, , .		21
24	Quantization Noise Shaping on Arbitrary Frame Expansions. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	19
25	Post-silicon timing characterization by compressed sensing. , 2008, , .		19
26	Compressive sampling for streaming signals with sparse frequency content. , 2010, , .		19
27	Efficient Coding of Signal Distances Using Universal Quantized Embeddings. , 2013, , .		19
28	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
29	Sigma delta quantization for compressive sensing. Proceedings of SPIE, 2007, , .	0.8	17
30	Joint sparsity models for wideband array processing. , 2011, , .		17
31	Universal encoding of multispectral images. , 2016, , .		17
32	Online convolutional dictionary learning for multimodal imaging. , 2017, , .		17
33	Basecalling using hidden Markov models. Journal of the Franklin Institute, 2004, 341, 23-36.	1.9	16
34	Streaming Compressive Sensing for high-speed periodic videos. , 2010, , .		16
35	Sparse Blind Deconvolution for Distributed Radar Autofocus Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 537-551.	2.6	15
36	Unrolled Projected Gradient Descent for Multi-spectral Image Fusion. , 2019, , .		15

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37	Noninvasive leakage power tomography of integrated circuits by compressive sensing. , 2008, , .		14
38	Source localization in reverberant environments using sparse optimization. , 2013, , .		14
39	Dictionary learning based pan-sharpening. , 2012, , .		13
40	Reconstructing sparse signals from their zero crossings. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12
41	Greedy sparsity-constrained optimization. , 2011, , .		12
42	Quantized embeddings of scale-invariant image features for mobile augmented reality. , 2012, , .		12
43	On the theoretical analysis of cross validation in compressive sensing. , 2014, , .		12
44	Deepcasd: An End-to-End Approach for Multi-Spectral Image Super-Resolution. , 2018, , .		11
45	Compressive Sensing for over-the-air ultrasound. , 2011, , .		10
46	Radar Autofocus Using Sparse Blind Deconvolution. , 2018, , .		10
47	Causal Compensation for Erasures in Frame Representations. IEEE Transactions on Signal Processing, 2008, 56, 1071-1082.	3.2	9
48	Video querying via compact descriptors of visually salient objects. , 2014, , .		9
49	Accelerated Image Reconstruction for Nonlinear Diffractive Imaging. , 2018, , .		9
50	Sparsity-driven distributed array imaging. , 2015, , .		8
51	Representation and coding of signal geometry. Information and Inference, 2017, 6, 349-388.	0.9	8
52	Distributed compression of zerotrees of wavelet coefficients. , 2011, , .		7
53	Depth sensing using active coherent illumination. , 2012, , .		7
54	Angle-preserving quantized phase embeddings. , 2013, , .		7

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55	Quantized embeddings: an efficient and universal nearest neighbor method for cloud-based image retrieval. , 2013, , .		7
56	Coded aperture compressive 3-D LIDAR. , 2015, , .		7
57	Economics of Dynamic Pricing in a Reputation Brokered Agent Mediated Marketplace. Electronic Commerce Research, 2001, 1, 85-100.	3.0	6
58	Generating Binary Processes with all-Pole Spectra. , 2007, , .		6
59	A compressive phase-locked loop. , 2012, , .		6
60	Compressive tomographic radar imaging with total variation regularization. , 2016, , .		6
61	Multispectral image compression using universal vector quantization. , 2016, , .		6
62	Robust Sensor Localization Based on Euclidean Distance Matrix. , 2018, , .		6
63	Compressive Sensing for streaming signals using the Streaming Greedy Pursuit. , 2010, , .		5
64	Wyner-Ziv coding of multispectral images for space and airborne platforms. , 2010, , .		5
65	Sparse MIMO architectures for through-the-wall imaging. , 2014, , .		5
66	Coherent distributed array imaging under unknown position perturbations. , 2016, , .		5
67	Motion-Adaptive Depth Superresolution. IEEE Transactions on Image Processing, 2017, 26, 1723-1731.	6.0	5
68	Robust Mutual Information-Based Multi-Image Registration. , 2019, , .		5
69	High resolution SAR imaging using random pulse timing. , 2011, , .		4
70	Pan-sharpening with multi-scale wavelet dictionary. , 2012, , .		4
71	Random steerable arrays for synthetic aperture imaging. , 2013, , .		4
72	Compressive sensing based 3D SAR imaging with multi-PRF baselines. , 2014, , .		4

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73	Universal embeddings for kernel machine classification. , 2015, , .		4
74	Depth superresolution using motion adaptive regularization. , 2016, , .		4
75	Fusion of multi-angular aerial images based on epipolar geometry and matrix completion. , 2017, , .		4
76	Extended Object Tracking Using Hierarchical Truncation Model with Partial-View Measurements. , 2020, , .		4
77	Quantization Noise Shaping on Arbitrary Frame Expansions. , 0, , .		3
78	Saturation-robust SAR image formation. , 2011, , .		3
79	Synthetic aperture imaging using a randomly steered spotlight. , 2013, , .		3
80	What's the Frequency, Kenneth?: Sublinear Fourier Sampling Off the Grid. Algorithmica, 2015, 73, 261-288.	1.0	3
81	Learning-based reduced order model stabilization for partial differential equations: Application to the coupled Burgers' equation. , 2016, , .		3
82	Compressive imaging with iterative forward models. , 2017, , .		3
83	Compressed sensing for fusion frames. Proceedings of SPIE, 2009, , .	0.8	2
84	Dimensionality reduction of visual features for efficient retrieval and classification. APSIPA Transactions on Signal and Information Processing, 2016, 5, .	2.6	2
85	Online blind deconvolution for sequential through-the-wall-radar-imaging. , 2016, , .		2
86	A Deep Neural Network Architecture Using Dimensionality Reduction with Sparse Matrices. Lecture Notes in Computer Science, 2016, , 397-404.	1.0	2
87	Distributed coding of multispectral images. , 2017, , .		2
88	Blind Multi-Spectral Image Pan-Sharpening. , 2020, , .		2
89	High-Contrast Reflection Tomography With Total-Variation Constraints. IEEE Transactions on Computational Imaging, 2020, 6, 1523-1536.	2.6	2
90	Graph-Based Array Signal Denoising for Perturbed Synthetic Aperture Radar. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
91	Average case analysis of sparse recovery from combined fusion frame measurements. , 2010, , .		1
92	Fast and High-Quality Blind Multi-Spectral Image Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	1
93	Low complexity efficient raw SAR data compression. , 2011, , .		1
94	Embedding-based representation of signal distances. , 2013, , .		0
95	Exploring the Resolution Limit for In-Air Synthetic-Aperture Audio Imaging. , 2015, , .		0
96	Kernel Machine Classification Using Universal Embeddings. , 2015, , .		0
97	High-Resolution Lidar Using Random Demodulation. , 2018, , .		0
98	Distributed Coding of Quantized Random Projections. IEEE Transactions on Signal Processing, 2020, 68, 5924-5939.	3.2	0
99	Embedding-Based Representation of Signal Geometry. Applied and Numerical Harmonic Analysis, 2017, , 155-178.	0.1	0
100	Extended Object Tracking with Spatial Model Adaptation Using Automotive Radar. , 2021, , .		0