

# Marco F Duarte

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

10,394  
citations

304743

22  
h-index

302126

39  
g-index

87  
all docs

87  
docs citations

87  
times ranked

7173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-pixel imaging via compressive sampling. IEEE Signal Processing Magazine, 2008, 25, 83-91.	5.6	2,583
2	Model-Based Compressive Sensing. IEEE Transactions on Information Theory, 2010, 56, 1982-2001.	2.4	1,244
3	Structured Compressed Sensing: From Theory to Applications. IEEE Transactions on Signal Processing, 2011, 59, 4053-4085.	5.3	1,020
4	Beyond Nyquist: Efficient Sampling of Sparse Bandlimited Signals. IEEE Transactions on Information Theory, 2010, 56, 520-544.	2.4	933
5	Kronecker Compressive Sensing. IEEE Transactions on Image Processing, 2012, 21, 494-504.	9.8	482
6	Explainable Machine Learning for Scientific Insights and Discoveries. IEEE Access, 2020, 8, 42200-42216.	4.2	466
7	Vehicle classification in distributed sensor networks. Journal of Parallel and Distributed Computing, 2004, 64, 826-838.	4.1	406
8	Spectral compressive sensing. Applied and Computational Harmonic Analysis, 2013, 35, 111-129.	2.2	351
9	<title>A new compressive imaging camera architecture using optical-domain compression</title>. , 2006, 6065, 43.		302
10	Theory and Implementation of an Analog-to-Information Converter using Random Demodulation. , 2007, , .		290
11	Analog-to-Information Conversion via Random Demodulation. , 2006, , .		269
12	An Architecture for Compressive Imaging. , 2006, , .		194
13	Compressive Sensing for Background Subtraction. Lecture Notes in Computer Science, 2008, , 155-168.	1.3	170
14	Sparsity and Structure in Hyperspectral Imaging : Sensing, Reconstruction, and Target Detection. IEEE Signal Processing Magazine, 2014, 31, 116-126.	5.6	157
15	The smashed filter for compressive classification and target recognition. , 2007, 6498, 142.		137
16	Sparse Signal Reconstruction from Noisy Compressive Measurements using Cross Validation. , 2007, , .		90
17	Practical Issues in Implementing Analog-to-Information Converters. , 2006, , .		74
18	Wavelet-domain compressive signal reconstruction using a Hidden Markov Tree model. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	69

#	ARTICLE	IF	CITATIONS
19	Asynchronous code-division random access using convex optimization. <i>Physical Communication</i> , 2012, 5, 129-147.	2.1	64
20	Conditioning of Random Block Subdictionaries With Applications to Block-Sparse Recovery and Regression. <i>IEEE Transactions on Information Theory</i> , 2015, 61, 4060-4079.	2.4	55
21	Hyperspectral Band Selection From Statistical Wavelet Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2111-2123.	6.3	46
22	Joint Manifolds for Data Fusion. <i>IEEE Transactions on Image Processing</i> , 2010, 19, 2580-2594.	9.8	45
23	Few-shot learning-based human activity recognition. <i>Expert Systems With Applications</i> , 2019, 138, 112782.	7.6	44
24	Compressive Parameter Estimation for Sparse Translation-Invariant Signals Using Polar Interpolation. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 870-881.	5.3	42
25	Universal distributed sensing via random projections. , 2006, , .		41
26	Signal compression in wireless sensor networks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 118-135.	3.4	40
27	Graph autoencoder-based unsupervised feature selection with broad and local data structure preservation. <i>Neurocomputing</i> , 2018, 312, 310-323.	5.9	39
28	Measurement Bounds for Sparse Signal Ensembles via Graphical Models. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 4280-4289.	2.4	38
29	Distance-Based Decision Fusion in a Distributed Wireless Sensor Network. <i>Telecommunication Systems</i> , 2004, 26, 339-350.	2.5	34
30	Kronecker product matrices for compressive sensing. , 2010, , .		28
31	Model-based compressive sensing for signal ensembles. , 2009, , .		26
32	Restoration of X-ray fluorescence images of hidden paintings. <i>Signal Processing</i> , 2013, 93, 592-604.	3.7	26
33	Multiscale Random Projections for Compressive Classification. , 2007, , .		21
34	Distance Based Decision Fusion in a Distributed Wireless Sensor Network. <i>Lecture Notes in Computer Science</i> , 2003, , 392-404.	1.3	20
35	Universal MAP estimation in compressed sensing. , 2011, , .		17
36	Spectral compressive sensing with polar interpolation. , 2013, , .		16

#	ARTICLE	IF	CITATIONS
37	Texas Hold 'Em algorithms for distributed compressive sensing. , 2010, , .		15
38	Recovery of frequency-sparse signals from compressive measurements. , 2010, , .		15
39	Direction of Arrival Estimation for Complex Sources Through $\ell_1$ Norm Sparse Bayesian Learning. IEEE Signal Processing Letters, 2019, 26, 765-769.	3.6	12
40	Perfect Recovery Conditions for Non-negative Sparse Modeling. IEEE Transactions on Signal Processing, 2017, 65, 69-80.	5.3	11
41	Recovery of compressible signals in unions of subspaces. , 2009, , .		10
42	Beyond worst-case reconstruction in deterministic compressed sensing. , 2012, , .		10
43	Compressive time delay estimation using interpolation. , 2013, , .		10
44	Multiuser detection in asynchronous on-off random access channels using lasso. , 2010, , .		9
45	Recovery From Linear Measurements With Complexity-Matching Universal Signal Estimation. IEEE Transactions on Signal Processing, 2015, 63, 1512-1527.	5.3	7
46	The value of redundant measurement in compressed sensing. , 2011, , .		6
47	Localization and bearing estimation via structured sparsity models. , 2012, , .		6
48	Non-homogeneous hidden Markov chain models for wavelet-based hyperspectral image processing. , 2013, , .		6
49	Compressive parameter estimation with earth mover's distance via K-median clustering. Proceedings of SPIE, 2013, , .	0.8	6
50	Sparsity Based Efficient Cross-Correlation Techniques in Sensor Networks. IEEE Transactions on Mobile Computing, 2017, 16, 2037-2050.	5.8	6
51	Compressive parameter estimation via K-median clustering. Signal Processing, 2018, 142, 36-52.	3.7	6
52	Autoencoder based sample selection for self-taught learning. Knowledge-Based Systems, 2020, 192, 105343.	7.1	6
53	Computer Vision, Image Analysis, and Master Art: Part 3. IEEE MultiMedia, 2007, 14, 14-18.	1.7	5
54	Image Contour Fidelity Analysis of Mechanically Aided Enlargements of Jan van Eyck's Albergati Portrait. Leonardo, 2010, 43, 43-50.	0.3	5

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55	Performance Bounds for Grouped Incoherent Measurements in Compressive Sensing. IEEE Transactions on Signal Processing, 2015, 63, 2877-2887.	5.3	5
56	Universality of wavelet-based non-homogeneous hidden Markov chain model features for hyperspectral signatures. , 2015, , .		5
57	Graph Regularized Autoencoder-Based Unsupervised Feature Selection. , 2018, , .		5
58	Recovering Spikes from Noisy Neuronal Calcium Signals via Structured Sparse Approximation. Lecture Notes in Computer Science, 2010, , 604-611.	1.3	5
59	Melanoma classification from Hidden Markov Tree features. , 2012, , .		4
60	Recovery of sparse signals from amplitude-limited sample sets. , 2013, , .		4
61	A new semantic wavelet-based spectral representation. , 2013, , .		4
62	Masking schemes for image manifolds. , 2014, , .		4
63	Tailoring non-homogeneous Markov chain wavelet models for hyperspectral signature classification. , 2014, , .		4
64	Design of spectrally shaped binary sequences via randomized convex relaxations. , 2015, , .		4
65	Semisupervised Endmember Identification in Nonlinear Spectral Mixtures via Semantic Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3272-3286.	6.3	4
66	Out-of-Sample Extension for Dimensionality Reduction of Noisy Time Series. IEEE Transactions on Image Processing, 2017, 26, 5435-5446.	9.8	4
67	Revisiting Computer Image Analysis and Art. IEEE MultiMedia, 2007, 14, 108-109.	1.7	3
68	Performance of the Delsarte-Goethals Frame on Clustered Sparse Vectors. IEEE Transactions on Signal Processing, 2013, 61, 1998-2008.	5.3	3
69	Hyperspectral unmixing via semantic spectral representations. , 2014, , .		3
70	Image masking schemes for local manifold learning methods. , 2015, , .		3
71	Compressive parameter estimation via approximate message passing. , 2015, , .		3
72	Optimal decision fusion with applications to target detection in wireless ad hoc sensor networks. , 0, , .		2

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73	Grouped incoherent measurements for compressive sensing. , 2012, , .		2
74	Complexity-adaptive universal signal estimation for compressed sensing. , 2014, , .		2
75	Isomap out-of-sample extension for noisy time series data. , 2015, , .		2
76	Performance guarantees for sparse regression-based unmixing. , 2015, , .		2
77	Compressive direction-of-arrival estimation off the grid. , 2016, , .		2
78	A Novel Crowd-Resilient Visual Localization Algorithm Via Robust Pca Background Extraction. , 2018, , .		2
79	Fidelity analysis of mechanically aided copying/enlarging of Jan van Eyck's Portrait of Niccolo Albergati. , 2007, , .		2
80	Compressive line spectrum estimation with clustering and interpolation. , 2016, , .		1
81	Mitigation of spectral leakage for single carrier, block-processing cognitive radio receivers. Digital Communications and Networks, 2018, 4, 106-110.	5.0	1
82	Multi-Branch Binary Modulation Sequences For Interferer Rejection. , 2018, , .		1
83	A Single Pixel Camera Based on White-noise Compressed Sensing. , 2006, , FWN3.		0
84	A Matlab toolbox for visualization of image manifolds. , 2013, , .		0
85	Binary Sequence Set Design for Interferer Rejection in Multi-Branch Modulation. IEEE Transactions on Signal Processing, 2020, 68, 3769-3778.	5.3	0