Miguel R D Rodrigues

List of Publications by Year
in descending order

56 papers	**852** citations	567281 **15** h-index	526287 **27** g-index
56 all docs	**56** docs citations	**56** times ranked	**728** citing authors

#	Article	IF	Citations
1	Wireless Image Transmission Using Deep Source Channel Coding With Attention Modules. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2315-2328.	8.3	59
2	Machine learning predicts the effect of food on orally administered medicines. International Journal of Pharmaceutics, 2022, 611, 121329.	5.2	4
3	ADMM-Based Hyperspectral Unmixing Networks for Abundance and Endmember Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	9
4	FPGA-Based Acceleration for Bayesian Convolutional Neural Networks. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 5343-5356.	2.7	8
5	Accelerating Bayesian Neural Networks via Algorithmic and Hardware Optimizations. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	2
6	Mixed X-Ray Image Separation for Artworks With Concealed Designs. IEEE Transactions on Image Processing, 2022, 31, 4458-4473.	9.8	2
7	Editorial: Introduction to the Special Issue on Deep Learning for High-Dimensional Sensing. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 603-607.	10.8	2
8	Introduction to Information Theory and Data Science.. , 2021, , 1-43.		0
9	REST: Robust lEarned Shrinkage-Thresholding Network Taming Inverse Problems with Model Mismatch. , 2021, , .		1
10	Deep Learning Model-Aware Regulatization With Applications to Inverse Problems. IEEE Transactions on Signal Processing, 2021, 69, 6371-6385.	5.3	6
11	Multimodal Image Super-Resolution via Joint Sparse Representations Induced by Coupled Dictionaries. IEEE Transactions on Computational Imaging, 2020, 6, 57-72.	4.4	42
12	RADAR: Robust Algorithm for Depth Image Super Resolution Based on FRI Theory and Multimodal Dictionary Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2447-2462.	8.3	8
13	Coupled Dictionary Learning for Multi-Contrast MRI Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 621-633.	8.9	39
14	Source Separation With Side Information Based on Gaussian Mixture Models With Application in Art Investigation. IEEE Transactions on Signal Processing, 2020, 68, 558-572.	5.3	10
15	Accurate, Very Low Computational Complexity Spike Sorting Using Unsupervised Matched Subspace Learning. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 221-231.	4.0	13
16	Asymptotic Task-Based Quantization With Application to Massive MIMO. IEEE Transactions on Signal Processing, 2019, 67, 3995-4012.	5.3	34
17	HYDRA: Hybrid deep magnetic resonance fingerprinting. Medical Physics, 2019, 46, 4951-4969.	3.0	23
18	Hardware-Limited Task-Based Quantization. IEEE Transactions on Signal Processing, 2019, 67, 5223-5238.	5.3	51

#	Article	IF	Citations
19	Magnetic Resonance Fingerprinting Using a Residual Convolutional Neural Network. , 2019, , .		8
20	Lautum Regularization for Semi-Supervised Transfer Learning. , 2019, , .		4
21	Compressive Sensing With Side Information: How to Optimally Capture This Extra Information for GMM Signals?. IEEE Transactions on Signal Processing, 2018, 66, 2314-2329.	5.3	4
22	Introduction to the Issue on Information-Theoretic Methods in Data Acquisition, Analysis, and Processing. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 821-824.	10.8	1
23	Compressed Sensing With Prior Information: Strategies, Geometry, and Bounds. IEEE Transactions on Information Theory, 2017, 63, 4472-4496.	2.4	124
24	Robust Large Margin Deep Neural Networks. IEEE Transactions on Signal Processing, 2017, 65, 4265-4280.	5.3	98
25	Heterogeneous Networked Data Recovery From Compressive Measurements Using a Copula Prior. IEEE Transactions on Communications, 2017, 65, 5333-5347.	7.8	13
26	Rate-distortion trade-offs in acquisition of signal parameters. , 2017, , .		10
27	Multi-Modal Dictionary Learning for Image Separation With Application in Art Investigation. IEEE Transactions on Image Processing, 2017, 26, 751-764.	9.8	27
28	Generalization error of deep neural networks: Role of classification margin and data structure. , 2017, , .		1
29	Energy harvesting for the Internet-of-Things: Measurements and probability models. , 2016, , .		7
30	Internet-of-Things data aggregation using compressed sensing with side information. , 2016, , .		10
31	Coupled dictionary learning for multimodal image super-resolution. , 2016, , .		8
32	Bayesian Compressed Sensing with Heterogeneous Side Information. , 2016, , .		7
33	Adaptive-Rate Reconstruction of Time-Varying Signals With Application in Compressive Foreground Extraction. IEEE Transactions on Signal Processing, 2016, 64, 3651-3666.	5.3	24
34	Bounds on the Number of Measurements for Reliable Compressive Classification. IEEE Transactions on Signal Processing, 2016, 64, 5778-5793.	5.3	18
35	On the design of linear projections for compressive sensing with side information. , 2016, , .		4
36	Classification and Reconstruction of High-Dimensional Signals From Low-Dimensional Features in the Presence of Side Information. IEEE Transactions on Information Theory, 2016, 62, 6459-6492.	2.4	31

#	Article	IF	Citations
37	A general framework for reconstruction and classification from compressive measurements with side information. , 2016, , .		1
38	Signal reconstruction in the presence of side information: The impact of projection kernel design. , 2016, , .		2
39	X-ray image separation via coupled dictionary learning. , 2016, , .		8
40	Mismatch in the Classification of Linear Subspaces: Sufficient Conditions for Reliable Classification. IEEE Transactions on Signal Processing, 2016, 64, 3035-3050.	5.3	3
41	Mismatch in the classification of linear subspaces: Upper bound to the probability of error. , 2015, , .		0
42	A concentration-of-measure inequality for multiple-measurement models. , 2015, , .		0
43	Multiple-Antenna Fading Channels With Arbitrary Inputs: Characterization and Optimization of the Information Rate. IEEE Transactions on Information Theory, 2014, 60, 569-585.	2.4	29
44	A New MSE Channel Estimator Optimized for Nonlinearly Distorted Faded OFDM Signals With Applications to Radio Over Fiber. IEEE Transactions on Communications, 2014, 62, 2977-2985.	7.8	5
45	Filter Design With Secrecy Constraints: The MIMO Gaussian Wiretap Channel. IEEE Transactions on Signal Processing, 2013, 61, 3799-3814.	5.3	36
46	Dictionary Learning With Optimized Projection Design for Compressive Sensing Applications. IEEE Signal Processing Letters, 2013, 20, 992-995.	3.6	15
47	Generalized Bregman divergence and gradient of mutual information for vector Poisson channels. , 2013, , .		2
48	Towards energy neutrality in energy harvesting wireless sensor networks: A case for distributed compressive sensing?. , 2013, , .		1
49	Power allocation strategies for OFDM Gaussian wiretap channels with a friendly jammer. , 2013, , .		9
50	Characterization and optimization of the constrained capacity of coherent fading channels driven by arbitrary inputs: A Mellin transform based asymptotic approach. , 2013, , .		0
51	Compressive sensing for incoherent imaging systems with optical constraints. , 2013, , .		1
52	Filter design with secrecy constraints: Zero-forcing constraint at the legitimate receiver. , 2012, , .		0
53	Towards the improvement of diagnostic metrics Fault diagnosis for DSL-Based IPTV networks using the Rényi entropy. , 2012, , .		4
54	A zero-sum power allocation game in the parallel Gaussian wiretap channel with an unfriendly jammer. , 2012, , .		13

#	ARTICLE	IF	CITATIONS
55	Performance assessment of MC-CDMA and MC-DS-CDMA in the presence of high power amplifier non-linearities. , 0, , .		4
56	Analysis of the influence of Walsh-Hadamard code allocation strategies on the performance of multi-carrier CDMA systems in the presence of HPA non-linearities. , 0, , .		7