

# Danilo Comminiello

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,509  
citations

566801

15  
h-index

360668

35  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1045  
citing authors

#	ARTICLE	IF	CITATIONS
1	Group sparse regularization for deep neural networks. <i>Neurocomputing</i> , 2017, 241, 81-89.	3.5	276
2	Nonlinear spline adaptive filtering. <i>Signal Processing</i> , 2013, 93, 772-783.	2.1	142
3	Functional Link Adaptive Filters for Nonlinear Acoustic Echo Cancellation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 1502-1512.	3.8	134
4	Online Sequential Extreme Learning Machine With Kernels. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 2214-2220.	7.2	124
5	Hammerstein uniform cubic spline adaptive filters: Learning and convergence properties. <i>Signal Processing</i> , 2014, 100, 112-123.	2.1	76
6	Novel Cascade Spline Architectures for the Identification of Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 1825-1835.	3.5	63
7	Nonlinear Acoustic Echo Cancellation Based on Sparse Functional Link Representations. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 1172-1183.	4.0	54
8	Nonlinear system identification using IIR Spline Adaptive Filters. <i>Signal Processing</i> , 2015, 108, 30-35.	2.1	48
9	Steady-State Performance of Spline Adaptive Filters. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 816-828.	3.2	47
10	A semi-supervised random vector functional-link network based on the transductive framework. <i>Information Sciences</i> , 2016, 364-365, 156-166.	4.0	37
11	Frequency domain quaternion adaptive filters: Algorithms and convergence performance. <i>Signal Processing</i> , 2017, 136, 69-80.	2.1	30
12	Improving nonlinear modeling capabilities of functional link adaptive filters. <i>Neural Networks</i> , 2015, 69, 51-59.	3.3	25
13	Quaternion Convolutional Neural Networks for Detection and Localization of 3D Sound Events. , 2019, , .		24
14	Functional link based architectures for nonlinear acoustic echo cancellation. , 2011, , .		22
15	Combined nonlinear filtering architectures involving sparse functional link adaptive filters. <i>Signal Processing</i> , 2017, 135, 168-178.	2.1	20
16	Combined adaptive beamforming schemes for nonstationary interfering noise reduction. <i>Signal Processing</i> , 2013, 93, 3306-3318.	2.1	19
17	Deep Recurrent Neural Networks for Audio Classification in Construction Sites. , 2021, , .		19
18	Diffusion spline adaptive filtering. , 2016, , .		18

#	ARTICLE	IF	CITATIONS
19	Comparison of Hammerstein and Wiener systems for nonlinear acoustic echo cancelers in reverberant environments. , 2011, , .		16
20	Compressing deep quaternion neural networks with targeted regularisation. CAAI Transactions on Intelligence Technology, 2020, 5, 172-176.	3.4	16
21	Convergence properties of nonlinear functional link adaptive filters. Electronics Letters, 2013, 49, 873-875.	0.5	15
22	Distributed Reservoir Computing with Sparse Readouts [Research Frontier]. IEEE Computational Intelligence Magazine, 2016, 11, 59-70.	3.4	15
23	Music classification using extreme learning machines. , 2013, , .		14
24	Quaternion Generative Adversarial Networks. Intelligent Systems Reference Library, 2022, , 57-86.	1.0	14
25	Full proportionate functional link adaptive filters for nonlinear acoustic echo cancellation. , 2017, , .		13
26	A split kernel adaptive filtering architecture for nonlinear acoustic echo cancellation. , 2016, , .		12
27	Learning from Distributed Data Sources Using Random Vector Functional-Link Networks. Procedia Computer Science, 2015, 53, 468-477.	1.2	10
28	Intelligent Acoustic Interfaces With Multisensor Acquisition for Immersive Reproduction. IEEE Transactions on Multimedia, 2015, 17, 1262-1272.	5.2	10
29	Frequency-domain Adaptive Filtering: from Real to Hypercomplex Signal Processing. , 2019, , .		10
30	Convex Combination of Spline Adaptive Filters. , 2019, , .		10
31	Functional link expansions for nonlinear modeling of audio and speech signals. , 2015, , .		9
32	A Quaternion-Valued Variational Autoencoder. , 2021, , .		9
33	An Information-Theoretic Perspective on Proper Quaternion Variational Autoencoders. Entropy, 2021, 23, 856.	1.1	9
34	The widely linear block quaternion least mean square algorithm for fast computation in 3D audio systems. , 2016, , .		8
35	Spline Adaptive Filters. , 2018, , 47-69.		8
36	Frequency-Domain Adaptive Filtering in Hypercomplex Systems. Smart Innovation, Systems and Technologies, 2016, , 47-56.	0.5	8

#	ARTICLE	IF	CITATIONS
37	A nonlinear architecture involving a combination of proportionate functional link adaptive filters. , 2015, , .		7
38	Learning Activation Functions from Data Using Cubic Spline Interpolation. Smart Innovation, Systems and Technologies, 2019, , 73-83.	0.5	7
39	A novel affine projection algorithm for superdirective microphone array beamforming. , 2010, , .		6
40	Differentiable Branching In Deep Networks for Fast Inference. , 2020, , .		6
41	Efficient Sound Event Localization and Detection in the Quaternion Domain. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2453-2457.	2.2	6
42	An effective criterion for pruning reservoir's connections in Echo State Networks. , 2014, , .		5
43	Advances in hypercomplex adaptive filtering for 3D audio processing. , 2017, , .		5
44	Effective Blind Source Separation Based on the Adam Algorithm. Smart Innovation, Systems and Technologies, 2018, , 57-66.	0.5	5
45	Significance-Based Pruning for Reservoir's Neurons in Echo State Networks. Smart Innovation, Systems and Technologies, 2015, , 31-38.	0.5	5
46	Music Genre Classification Using Stacked Auto-Encoders. Smart Innovation, Systems and Technologies, 2020, , 11-19.	0.5	5
47	Online Selection of Functional Links for Nonlinear System Identification. Smart Innovation, Systems and Technologies, 2015, , 39-47.	0.5	4
48	A block-based combined scheme exploiting sparsity in nonlinear acoustic echo cancellation. , 2016, , .		4
49	Improving Graph Convolutional Networks with Non-Parametric Activation Functions. , 2018, , .		4
50	Sparse functional link adaptive filter using an $l_1$ -norm regularization. , 2018, , .		4
51	A Multimodal Dense U-Net For Accelerating Multiple Sclerosis MRI. , 2019, , .		4
52	Quaternion Neural Networks for 3D Sound Source Localization in Reverberant Environments. , 2020, , .		4
53	The variable step size regularized block exact affine projection algorithm. , 2012, , .		3
54	Combined adaptive beamforming techniques for noise reduction in changing environments. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
55	Design of hybrid nonlinear spline adaptive filters for active noise control. , 2016, , .		3
56	Introducing complex functional link polynomial filters. , 2017, , .		3
57	Advanced intelligent acoustic interfaces for multichannel audio reproduction. , 2014, , .		2
58	GP-based kernel evolution for $L_2$ -Regularization Networks. , 2014, , .		2
59	Combined Sparse Regularization for Nonlinear Adaptive Filters. , 2018, , .		2
60	Steady-State Performance of an Adaptive Combined MISO Filter Using the Multichannel Affine Projection Algorithm. Algorithms, 2019, 12, 2.	1.2	2
61	PM10 Forecasting Using Kernel Adaptive Filtering: An Italian Case Study. Smart Innovation, Systems and Technologies, 2013, , 93-100.	0.5	2
62	Convex combination of MIMO filters for multichannel acoustic echo cancellation. , 2013, , .		1
63	Interactive quality enhancement in acoustic echo cancellation. , 2013, , .		1
64	An interactive optimization procedure for stereophonic acoustic echo cancellation systems. , 2015, , .		1
65	RECURRENT NEURAL NETWORKS WITH FLEXIBLE GATES USING KERNEL ACTIVATION FUNCTIONS. , 2018, , .		1
66	Widely Linear Kernels for Complex-valued Kernel Activation Functions. , 2019, , .		1
67	A Wide Multimodal Dense U-Net for Fast Magnetic Resonance Imaging. , 2021, , .		1
68	A Multimodal Deep Network for the Reconstruction of T2W MR Images. Smart Innovation, Systems and Technologies, 2021, , 423-431.	0.5	1
69	Benchmarking Functional Link Expansions for Audio Classification Tasks. Smart Innovation, Systems and Technologies, 2016, , 133-141.	0.5	1
70	A Low-Complexity Linear-in-the-Parameters Nonlinear Filter for Distorted Speech Signals. Smart Innovation, Systems and Technologies, 2019, , 107-117.	0.5	1
71	Separation of Drum and Bass from Monaural Tracks. Smart Innovation, Systems and Technologies, 2019, , 141-151.	0.5	1
72	On the Influence of Microphone Array Geometry on the Behavior of Hypercomplex Adaptive Filters. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	Advances in Complex Systems and Their Applications to Cybersecurity. Complexity, 2019, 2019, 1-2.	0.9	0
74	Proportionate Algorithms for Blind Source Separation. Smart Innovation, Systems and Technologies, 2014, , 99-106.	0.5	0
75	Quaternion Widely Linear Forecasting of Air Quality. Smart Innovation, Systems and Technologies, 2021, , 393-403.	0.5	0