

# Stefania Cecchi

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

640  
citations

759055

12  
h-index

713332

21  
g-index

75  
all docs

75  
docs citations

75  
times ranked

312  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Smart Sensor-Based Measurement System for Advanced Bee Hive Monitoring. <i>Sensors</i> , 2020, 20, 2726.	2.1	60
2	On the Importance of the Sound Emitted by Honey Bee Hives. <i>Veterinary Sciences</i> , 2020, 7, 168.	0.6	46
3	Room Response Equalization—A Review. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 16.	1.3	45
4	Legendre nonlinear filters. <i>Signal Processing</i> , 2015, 109, 84-94.	2.1	40
5	Audio-based Identification of Beehive States. , 2019, , .		35
6	A Mixed Decorrelation Approach for Stereo Acoustic Echo Cancellation Based on the Estimation of the Fundamental Frequency. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 690-698.	3.8	25
7	Multiple Position Room Response Equalization in Frequency Domain. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 122-135.	3.8	19
8	Identification of Volterra Models of Tube Audio Devices using Multiple-Variance Method. <i>AES: Journal of the Audio Engineering Society</i> , 2018, 66, 823-838.	0.8	19
9	A Combined Psychoacoustic Approach for Stereo Acoustic Echo Cancellation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, 19, 1530-1539.	3.8	18
10	Comparison of Feature Extraction Methods for Sound-Based Classification of Honey Bee Activity. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2022, 30, 112-122.	4.0	18
11	Features Extraction Applied to the Analysis of the Sounds Emitted by Honey Bees in a Beehive. , 2019, , .		16
12	Nonlinear system identification using Wiener basis functions and multiple-variance perfect sequences. <i>Signal Processing</i> , 2019, 160, 137-149.	2.1	16
13	Low-complexity implementation of a real-time decorrelation algorithm for stereophonic acoustic echo cancellation. <i>Signal Processing</i> , 2012, 92, 2668-2675.	2.1	15
14	Introducing Legendre nonlinear filters. , 2014, , .		15
15	A multichannel and multiple position adaptive room response equalizer in warped domain: Real-time implementation and performance evaluation. <i>Applied Acoustics</i> , 2014, 82, 28-37.	1.7	12
16	Orthogonal Periodic Sequences for the Identification of Functional Link Polynomial Filters. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 5308-5321.	3.2	12
17	A Novel Approach to Active Noise Control Based on Wave Domain Adaptive Filtering. , 2007, , .		11
18	Adaptive Feedback Active Noise Control for Yacht Environments. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 737-744.	3.2	11

#	ARTICLE	IF	CITATIONS
19	Robust Room Impulse Response Measurement Using Perfect Sequences for Legendre Nonlinear Filters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1969-1982.	4.0	11
20	A Combined Approach for Channel Decorrelation in Stereo Acoustic Echo Cancellation Exploiting Time-Varying Frequency Shifting. IEEE Signal Processing Letters, 2013, 20, 717-720.	2.1	10
21	Intelligent Acoustic Interfaces With Multisensor Acquisition for Immersive Reproduction. IEEE Transactions on Multimedia, 2015, 17, 1262-1272.	5.2	10
22	A New Approach to Bass Enhancement Based on Prony's Method. , 2007, , .		9
23	Robust Room Impulse Response Measurement Using Perfect Periodic Sequences for Wiener Nonlinear Filters. Electronics (Switzerland), 2020, 9, 1793.	1.8	9
24	A novel approach to channel decorrelation for stereo Acoustic Echo Cancellation based on missing fundamental theory. , 2010, , .		8
25	Identification of Hammerstein model using cubic splines and FIR filtering. , 2013, , .		8
26	A novel decorrelation approach for multichannel system identification. , 2014, , .		8
27	Perfect periodic sequences for nonlinear Wiener filters. , 2016, , .		8
28	Multichannel Double-Talk Detector based on Fundamental Frequency Estimation. IEEE Signal Processing Letters, 2016, 23, 94-97.	2.1	8
29	A Room Impulse Response Measurement Method Robust Towards Nonlinearities Based on Orthogonal Periodic Sequences. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3104-3117.	4.0	8
30	Multichannel acoustic echo cancellation exploiting effective fundamental frequency estimation. Speech Communication, 2017, 86, 97-106.	1.6	7
31	Orthogonal LIP Nonlinear Filters. , 2018, , 15-46.		7
32	A Swept-Sine Pulse Compression Procedure for an Effective Measurement of Intermodulation Distortion. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1708-1719.	2.4	6
33	Echo State Networks for Real-Time Audio Applications. Lecture Notes in Computer Science, 2007, , 731-740.	1.0	6
34	A New Approach to Digital Audio Equalization. , 2007, , .		5
35	Objective and Subjective Investigation on a Novel Method for Digital Reverberator Parameters Estimation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 441-452.	4.0	5
36	Investigation on Audio Algorithms Architecture for Stereo Portable Devices. AES: Journal of the Audio Engineering Society, 2016, 64, 75-88.	0.8	5

#	ARTICLE	IF	CITATIONS
37	A Low-Complexity Linear-Phase Graphic Audio Equalizer Based on IFIR Filters. IEEE Signal Processing Letters, 2021, 28, 429-433.	2.1	5
38	A Subband Approach to Wave Domain Adaptive Filtering. , 2008, , .		4
39	An efficient DSP-based implementation of a fast convolution approach with non uniform partitioning. , 2012, , .		4
40	A low latency implementation of a non-uniform partitioned convolution algorithm for room acoustic simulation. Signal, Image and Video Processing, 2014, 8, 985-994.	1.7	4
41	Room impulse response estimation using perfect sequences for Legendre nonlinear filters. , 2015, , .		4
42	An Efficient Active Noise Control System with Online Secondary Path Estimation for Snoring Reduction. , 2021, , .		4
43	Real-time implementation of Wave Field Synthesis for sound reproduction systems. , 2008, , .		3
44	IIR filter approximation of an innovative digital audio equalizer. , 2013, , .		3
45	An efficient implementation of acoustic crosstalk cancellation for 3D audio rendering. , 2014, , .		3
46	Introducing the Orthogonal Periodic Sequences for the Identification of Functional Link Polynomial Filters. , 2019, , .		3
47	On Room Impulse Response Measurement Using Orthogonal Periodic Sequences. , 2019, , .		3
48	A Swept-Sine-Type Single Measurement to Estimate Intermodulation Distortion in a Dynamic Range of Audio Signal Amplitudes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	3
49	Performance Evaluation of Adaptive Algorithms for Wave Field Analysis/Synthesis Using Sound Field Simulations. , 0, , .		3
50	Advanced CIS architecture and algorithms for enhanced in-car audio listening. , 2009, , .		2
51	Advanced intelligent acoustic interfaces for multichannel audio reproduction. , 2014, , .		2
52	An adaptive multichannel identification system for room response equalization. , 2015, , .		2
53	A voice activity detection algorithm for multichannel acoustic echo cancellation exploiting fundamental frequency estimation. , 2015, , .		2
54	Multivariate nonlinear system identification using Wiener basis functions and perfect sequences. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Identification Issues Associated with the Use of Wearable Accelerometers in Lifelogging. Lecture Notes in Computer Science, 2020, , 338-351.	1.0	2
56	Comparing Performances of Different Multiband Adaptive Architectures for Noise Reduction. , 2006, , .		1
57	An efficient DSP implementation of a dynamic convolution approach using principal component analysis. , 2012, , .		1
58	Hybrid Reverberator Using Multiple Impulse Responses for Audio Rendering Improvement. , 2013, , .		1
59	An efficient time varying hybrid reverberator for room acoustic simulation. , 2014, , .		1
60	An interactive optimization procedure for stereophonic acoustic echo cancellation systems. , 2015, , .		1
61	Sensors Characterization for a Calibration-Free Connected Smart Insole for Healthy Ageing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 35-54.	0.2	1
62	Review on Electric Vehicles Exterior Noise Generation and Evaluation. , 2020, , .		1
63	A theoretical analysis of a buffer frame size conversion algorithm for audio applications ensuring minimum latency. Signal, Image and Video Processing, 2011, 5, 185-190.	1.7	0
64	Evaluation of a channel decorrelation approach for stereo acoustic echo cancellation. , 2013, , .		0
65	Advanced audio spatializer combined with a multipoint equalization system. , 2014, , .		0
66	A Hybrid Approach for Reverberation Simulation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2101-2108.	0.2	0
67	Real-time implementation and performance evaluation of digital control for loudspeakers line arrays. Applied Acoustics, 2015, 97, 121-132.	1.7	0
68	Investigation on crosstalk cancellation introducing loudspeakers directivity in HRTFs approximation. , 2015, , .		0
69	An optimization procedure for a nonlinear system identification approach based on cubic splines. , 2015, , .		0
70	Combining evolution strategies and neural network procedures for compression driver design. , 2016, , .		0
71	In Car Audio. , 2012, , 155-192.		0
72	Digital Signal Processing for Audio Applications: Then, Now and the Future. , 2019, , 37-51.		0

#	ARTICLE	IF	CITATIONS
73	Gaussianization Based Approach for Post-Nonlinear Underdetermined BSS with Delays. Lecture Notes in Computer Science, 2007, , 783-792.	1.0	0