

# 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  | Comparison of Feature Extraction Methods for Sound-Based Classification of Honey Bee Activity. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 112-122.                                       | 4.0 | 18        |
| 2  | 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         |
| 3  | 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         |
| 4  | A Low-Complexity Linear-Phase Graphic Audio Equalizer Based on IFIR Filters. IEEE Signal Processing Letters, 2021, 28, 429-433.  | 2.1 | 5         |
| 5  | 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         |
| 6  | An Efficient Active Noise Control System with Online Secondary Path Estimation for Snoring Reduction. , 2021, , .  |     | 4         |
| 7  | 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         |
| 8  | On the Importance of the Sound Emitted by Honey Bee Hives. Veterinary Sciences, 2020, 7, 168.  | 0.6 | 46        |
| 9  | Orthogonal Periodic Sequences for the Identification of Functional Link Polynomial Filters. IEEE Transactions on Signal Processing, 2020, 68, 5308-5321.   | 3.2 | 12        |
| 10 | Robust Room Impulse Response Measurement Using Perfect Periodic Sequences for Wiener Nonlinear Filters. Electronics (Switzerland), 2020, 9, 1793.  | 1.8 | 9         |
| 11 | A Smart Sensor-Based Measurement System for Advanced Bee Hive Monitoring. Sensors, 2020, 20, 2726.   | 2.1 | 60        |
| 12 | Identification Issues Associated with the Use of Wearable Accelerometers in Lifelogging. Lecture Notes in Computer Science, 2020, , 338-351.   | 1.0 | 2         |
| 13 | Review on Electric Vehicles Exterior Noise Generation and Evaluation. , 2020, , .  |     | 1         |
| 14 | Features Extraction Applied to the Analysis of the Sounds Emitted by Honey Bees in a Beehive. , 2019, , .  |     | 16        |
| 15 | Introducing the Orthogonal Periodic Sequences for the Identification of Functional Link Polynomial Filters. , 2019, , .  |     | 3         |
| 16 | Audio-based Identification of Beehive States. , 2019, , .  |     | 35        |
| 17 | Nonlinear system identification using Wiener basis functions and multiple-variance perfect sequences. Signal Processing, 2019, 160, 137-149.   | 2.1 | 16        |
| 18 | On Room Impulse Response Measurement Using Orthogonal Periodic Sequences. , 2019, , .  |     | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Digital Signal Processing for Audio Applications: Then, Now and the Future. , 2019, , 37-51.   |     | 0         |
| 20 | Identification of Volterra Models of Tube Audio Devices using Multiple-Variance Method. AES: Journal of the Audio Engineering Society, 2018, 66, 823-838.                            | 0.8 | 19        |
| 21 | Room Response Equalizationâ€™A Review. Applied Sciences (Switzerland), 2018, 8, 16.  | 1.3 | 45        |
| 22 | Orthogonal LIP Nonlinear Filters. , 2018, , 15-46.   |     | 7         |
| 23 | Multichannel acoustic echo cancellation exploiting effective fundamental frequency estimation. Speech Communication, 2017, 86, 97-106.   | 1.6 | 7         |
| 24 | Multivariate nonlinear system identification using Wiener basis functions and perfect sequences. , 2017, , .   |     | 2         |
| 25 | Investigation on Audio Algorithms Architecture for Stereo Portable Devices. AES: Journal of the Audio Engineering Society, 2016, 64, 75-88.  | 0.8 | 5         |
| 26 | 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        |
| 27 | Perfect periodic sequences for nonlinear Wiener filters. , 2016, , .   |     | 8         |
| 28 | Combining evolution strategies and neural network procedures for compression driver design. , 2016, , .  |     | 0         |
| 29 | Multichannel Double-Talk Detector based on Fundamental Frequency Estimation. IEEE Signal Processing Letters, 2016, 23, 94-97.  | 2.1 | 8         |
| 30 | A Hybrid Approach for Reverberation Simulation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2101-2108.                     | 0.2 | 0         |
| 31 | An interactive optimization procedure for stereophonic acoustic echo cancellation systems. , 2015, , .   |     | 1         |
| 32 | Room impulse response estimation using perfect sequences for Legendre nonlinear filters. , 2015, , .   |     | 4         |
| 33 | An adaptive multichannel identification system for room response equalization. , 2015, , .   |     | 2         |
| 34 | Real-time implementation and performance evaluation of digital control for loudspeakers line arrays. Applied Acoustics, 2015, 97, 121-132.   | 1.7 | 0         |
| 35 | A voice activity detection algorithm for multichannel acoustic echo cancellation exploiting fundamental frequency estimation. , 2015, , .  |     | 2         |
| 36 | Investigation on crosstalk cancellation introducing loudspeakers directivity in HRTFs approximation. , 2015, , .   |     | 0         |

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|----|--|-----|-----------|
| 37 | An optimization procedure for a nonlinear system identification approach based on cubic splines. , 2015, , .   |     | 0         |
| 38 | Intelligent Acoustic Interfaces With Multisensor Acquisition for Immersive Reproduction. IEEE Transactions on Multimedia, 2015, 17, 1262-1272.   | 5.2 | 10        |
| 39 | Legendre nonlinear filters. Signal Processing, 2015, 109, 84-94.   | 2.1 | 40        |
| 40 | Advanced intelligent acoustic interfaces for multichannel audio reproduction. , 2014, , .  |     | 2         |
| 41 | A novel decorrelation approach for multichannel system identification. , 2014, , .   |     | 8         |
| 42 | Introducing Legendre nonlinear filters. , 2014, , .  |     | 15        |
| 43 | An efficient implementation of acoustic crosstalk cancellation for 3D audio rendering. , 2014, , .   |     | 3         |
| 44 | Advanced audio spatializer combined with a multipoint equalization system. , 2014, , .   |     | 0         |
| 45 | 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         |
| 46 | A multichannel and multiple position adaptive room response equalizer in warped domain: Real-time implementation and performance evaluation. Applied Acoustics, 2014, 82, 28-37.           | 1.7 | 12        |
| 47 | An efficient time varying hybrid reverberator for room acoustic simulation. , 2014, , .  |     | 1         |
| 48 | 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         |
| 49 | Adaptive Feedback Active Noise Control for Yacht Environments. IEEE Transactions on Control Systems Technology, 2014, 22, 737-744.   | 3.2 | 11        |
| 50 | Evaluation of a channel decorrelation approach for stereo acoustic echo cancellation. , 2013, , .  |     | 0         |
| 51 | Identification of Hammerstein model using cubic splines and FIR filtering. , 2013, , .   |     | 8         |
| 52 | 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        |
| 53 | IIR filter approximation of an innovative digital audio equalizer. , 2013, , .   |     | 3         |
| 54 | Hybrid Reverberator Using Multiple Impulse Responses for Audio Rendering Improvement. , 2013, , .  |     | 1         |

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|----|--|-----|-----------|
| 55 | An efficient DSP implementation of a dynamic convolution approach using principal component analysis. , 2012, , .  |     | 1         |
| 56 | An efficient DSP-based implementation of a fast convolution approach with non uniform partitioning. , 2012, , .  |     | 4         |
| 57 | Low-complexity implementation of a real-time decorrelation algorithm for stereophonic acoustic echo cancellation. Signal Processing, 2012, 92, 2668-2675.  | 2.1 | 15        |
| 58 | Multiple Position Room Response Equalization in Frequency Domain. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 122-135.  | 3.8 | 19        |
| 59 | A Mixed Decorrelation Approach for Stereo Acoustic Echo Cancellation Based on the Estimation of the Fundamental Frequency. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 690-698. | 3.8 | 25        |
| 60 | In Car Audio. , 2012, , 155-192.   |     | 0         |
| 61 | A Combined Psychoacoustic Approach for Stereo Acoustic Echo Cancellation. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1530-1539.  | 3.8 | 18        |
| 62 | 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         |
| 63 | A novel approach to channel decorrelation for stereo Acoustic Echo Cancellation based on missing fundamental theory. , 2010, , .   |     | 8         |
| 64 | Advanced CIS architecture and algorithms for enhanced in-car audio listening. , 2009, , .  |     | 2         |
| 65 | A Subband Approach to Wave Domain Adaptive Filtering. , 2008, , .  |     | 4         |
| 66 | Real-time implementation of Wave Field Synthesis for sound reproduction systems. , 2008, , .   |     | 3         |
| 67 | A Novel Approach to Active Noise Control Based on Wave Domain Adaptive Filtering. , 2007, , .  |     | 11        |
| 68 | A New Approach to Digital Audio Equalization. , 2007, , .  |     | 5         |
| 69 | A New Approach to Bass Enhancement Based on Prony's Method. , 2007, , .  |     | 9         |
| 70 | Echo State Networks for Real-Time Audio Applications. Lecture Notes in Computer Science, 2007, , 731-740.  | 1.0 | 6         |
| 71 | Gaussianization Based Approach for Post-Nonlinear Underdetermined BSS with Delays. Lecture Notes in Computer Science, 2007, , 783-792.   | 1.0 | 0         |
| 72 | Comparing Performances of Different Multiband Adaptive Architectures for Noise Reduction. , 2006, , .  |     | 1         |

| #  | ARTICLE  | IF | CITATIONS |
|----|--|----|-----------|
| 73 | Performance Evaluation of Adaptive Algorithms for Wave Field Analysis/Synthesis Using Sound Field Simulations. , 0 , . |    | 3         |