

# Roberto Diversi

## List of Publications by Year in descending order

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59  
papers

574  
citations

687363

13  
h-index

677142

22  
g-index

59  
all docs

59  
docs citations

59  
times ranked

343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximum likelihood identification of noisy input-output models. <i>Automatica</i> , 2007, 43, 464-472.	5.0	50
2	Speech Enhancement Combining Optimal Smoothing and Errors-In-Variables Identification of Noisy AR Processes. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 5564-5578.	5.3	46
3	Identification of ARX and ARARX Models in the Presence of Input and Output Noises. <i>European Journal of Control</i> , 2010, 16, 242-255.	2.6	43
4	A New Criterion in EIV Identification and Filtering Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 1957-1962.	0.4	39
5	Kalman filtering in extended noise environments. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 1396-1402.	5.7	39
6	Structural monitoring of a tower by means of MEMS-based sensing and enhanced autoregressive models. <i>European Journal of Control</i> , 2014, 20, 4-13.	2.6	34
7	Identification of autoregressive models in the presence of additive noise. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008, 22, 465-481.	4.1	28
8	Optimal errors-in-variables filtering. <i>Automatica</i> , 2003, 39, 281-289.	5.0	27
9	A Bias-Compensated Identification Approach for Noisy FIR Models. <i>IEEE Signal Processing Letters</i> , 2008, 15, 325-328.	3.6	27
10	Minimal representations of MIMO time-varying systems and realization of cyclostationary models. <i>Automatica</i> , 2003, 39, 1903-1914.	5.0	19
11	Bias-Compensated Least Squares Identification of Distributed Thermal Models for Many-Core Systems-on-Chip. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014, 61, 2663-2676.	5.4	19
12	Algorithms for optimal errors-in-variables filtering. <i>Systems and Control Letters</i> , 2003, 48, 1-13.	2.3	15
13	Blind identification and equalization of two-channel FIR systems in unbalanced noise environments. <i>Signal Processing</i> , 2005, 85, 215-225.	3.7	14
14	A NEW ESTIMATION APPROACH FOR AR MODELS IN PRESENCE OF NOISE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 160-165.	0.4	13
15	RUL prediction for automatic machines: a mixed edge-cloud solution based on model-of-signals and particle filtering techniques. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 1421-1440.	7.3	12
16	A unified framework for EIV identification methods when the measurement noises are mutually correlated. <i>Automatica</i> , 2014, 50, 3216-3223.	5.0	11
17	SCC Thermal Model Identification via Advanced Bias-Compensated Least-Squares. , 2013, , .		10
18	Noisy FIR Identification as a Quadratic Eigenvalue Problem. <i>IEEE Transactions on Signal Processing</i> , 2009, 57, 4563-4568.	5.3	9

#	ARTICLE	IF	CITATIONS
19	Self-Aware Thermal Management for High-Performance Computing Processors. IEEE Design and Test, 2018, 35, 28-35.	1.2	9
20	Identification of ARMAX models with noisy input and output. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13121-13126.	0.4	8
21	AR+ noise versus AR and ARMA models in SHM-oriented identification. , 2015, , .		8
22	Bias-eliminating least-squares identification of errors-in-variables models with mutually correlated noises. International Journal of Adaptive Control and Signal Processing, 2013, 27, 915-924.	4.1	7
23	Kullback-Leibler and Rényi divergence rate for Gaussian stationary ARMA processes comparison. , 2021, 116, 103089.		7
24	Blind Estimation and Deconvolution of Communication Channels with Unbalanced Noise. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 325-330.	0.4	6
25	Fast filtering of noisy autoregressive signals. Signal Processing, 2007, 87, 2843-2849.	3.7	6
26	Thermal Model Identification of Computing Nodes in High-Performance Computing Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 7778-7788.	7.9	6
27	Thermal model identification of supercomputing nodes in production environment. , 2016, , .		5
28	Multiscale Thermal Management of Computing Systems - The MULTITHERMAN approach. IFAC-PapersOnLine, 2017, 50, 6709-6716.	0.9	5
29	ARMA model identification from noisy observations based on a two-step errors-in-variables approach * *This work was partially supported by Sistema Nacional de Investigacion (SNI) of Panama under the contract No.124-2015. IFAC-PapersOnLine, 2017, 50, 14143-14149.	0.9	5
30	Identifying an autoregressive process disturbed by a moving-average noise using inner-outer factorization. Signal, Image and Video Processing, 2015, 9, 235-244.	2.7	4
31	The Frisch scheme in multivariable errors-in-variables identification. European Journal of Control, 2017, 37, 43-53.	2.6	4
32	A new approach for identifying noisy input-output FIR models. , 2008, , .		3
33	Identification of errors-in-variables models with mutually correlated input and output noises. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1353-1358.	0.4	3
34	Prediction error method to estimate the ar parameters when the AR process is disturbed by a colored noise. , 2013, , .		3
35	Structural health monitoring application of errors-in-variables identification. , 2013, , .		3
36	Identification of errors-in-variables models with colored output noise. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	Robust Identification of Thermal Models for In-Production High-Performance-Computing Clusters With Machine Learning-Based Data Selection. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2042-2054.	2.7	3
38	OPTIMAL ERRORS-IN-VARIABLES FILTERING IN THE MIMO CASE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 826-831.	0.4	2
39	Blind identification and equalization of multichannel FIR systems in unbalanced noise environments. Signal Processing, 2007, 87, 654-664.	3.7	2
40	A modular approach to dynamic modelling of heat exchangers in vapor compression cycles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1005-1012.	0.4	2
41	A covariance-matching criterion in the Frisch scheme identification of MIMO EIV models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1647-1652.	0.4	2
42	Estimating the number of signals in the presence of nonuniform noise. , 2014, , .		2
43	Errors-in-variables identification of noisy moving average models. , 2015, , .		2
44	A three-step identification procedure for ARARX models with additive measurement noise. , 2016, , .		2
45	Errors-in-variables identification of thermal models for many-core computing systems. , 2013, , .		2
46	A Fast Algorithm for Errors-in-Variables Filtering. IEEE Transactions on Automatic Control, 2012, 57, 1303-1309.	5.7	1
47	Identification of many-core systems-on-chip with input and output noises. , 2013, , .		1
48	A unified framework for EIV identification methods in the presence of mutually correlated noises. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4644-4649.	0.4	1
49	Errors-in-Variables Identification of Composite Noncausal-FIR/IIR Models with Application to Transmissibility Identification. , 2019, , .		1
50	Recursive identification of errors-in-variables models with correlated output noise. IFAC-PapersOnLine, 2021, 54, 363-368.	0.9	1
51	EIV-based fault diagnosis in a light sport aircraft. , 2008, , .		0
52	Dynamical Modelling of Single-Phase and Two-Phase States in Thermodynamic Cycles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 451-456.	0.4	0
53	On the use of minimal parametrizations in multivariable output-error identification. , 2011, , .		0
54	A Behavioural Approach in EIV Identification: the SISO Case. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 143-147.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Optimal filtering of multivariate noisy AR processes. Signal, Image and Video Processing, 2013, 7, 873-878.	2.7	0
56	Direction-of-Arrival Estimation in Nonuniform Noise Fields: A Frisch Scheme Approach. Advances in Intelligent Systems and Computing, 2014, , 765-774.	0.6	0
57	Residual Generator Identification and Design for Linear Multivariable Systems. , 2007, , 890-895.		0
58	Condition monitoring of electric-cam mechanisms based on Model-of-Signals of the drive current higher-order differences. IFAC-PapersOnLine, 2020, 53, 802-807.	0.9	0
59	Identification of noisy input-output FIR models with colored output noise. IFAC-PapersOnLine, 2020, 53, 901-906.	0.9	0