

# Roberto Diversi

## List of Publications by Year in descending order

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59  
papers

574  
citations

687363

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677142

22  
g-index

59  
all docs

59  
docs citations

59  
times ranked

343  
citing authors

#	ARTICLE	IF	CITATIONS
1	RUL prediction for automatic machines: a mixed edge-cloud solution based on model-of-signals and particle filtering techniques. Journal of Intelligent Manufacturing, 2021, 32, 1421-1440.	7.3	12
2	Recursive identification of errors-in-variables models with correlated output noise. IFAC-PapersOnLine, 2021, 54, 363-368.	0.9	1
3	Kullback-Leibler and Rényi divergence rate for Gaussian stationary ARMA processes comparison. , 2021, 116, 103089.		7
4	Thermal Model Identification of Computing Nodes in High-Performance Computing Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 7778-7788.	7.9	6
5	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
6	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
7	Identification of noisy input-output FIR models with colored output noise. IFAC-PapersOnLine, 2020, 53, 901-906.	0.9	0
8	Errors-in-Variables Identification of Composite Noncausal-FIR/IIR Models with Application to Transmissibility Identification. , 2019, , .		1
9	Self-Aware Thermal Management for High-Performance Computing Processors. IEEE Design and Test, 2018, 35, 28-35.	1.2	9
10	The Frisch scheme in multivariable errors-in-variables identification. European Journal of Control, 2017, 37, 43-53.	2.6	4
11	Multiscale Thermal Management of Computing Systems - The MULTITHERMAN approach. IFAC-PapersOnLine, 2017, 50, 6709-6716.	0.9	5
12	ARMA model identification from noisy observations based on a two-step errors-in-variables approach * *This work was partially supported by Sistema Nacional de Investigación (SNI) of Panama under the contract No.124-2015. IFAC-PapersOnLine, 2017, 50, 14143-14149.	0.9	5
13	A three-step identification procedure for ARARX models with additive measurement noise. , 2016, , .		2
14	Thermal model identification of supercomputing nodes in production environment. , 2016, , .		5
15	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
16	Identification of errors-in-variables models with colored output noise. , 2015, , .		3
17	AR+ noise versus AR and ARMA models in SHM-oriented identification. , 2015, , .		8
18	Errors-in-variables identification of noisy moving average models. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
19	A unified framework for EIV identification methods when the measurement noises are mutually correlated. Automatica, 2014, 50, 3216-3223.	5.0	11
20	Estimating the number of signals in the presence of nonuniform noise. , 2014, , .		2
21	Directional Arrival Estimation in Nonuniform Noise Fields: A Frisch Scheme Approach. Advances in Intelligent Systems and Computing, 2014, , 765-774.	0.6	0
22	Bias-Compensated Least Squares Identification of Distributed Thermal Models for Many-Core Systems-on-Chip. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2663-2676.	5.4	19
23	Structural monitoring of a tower by means of MEMS-based sensing and enhanced autoregressive models. European Journal of Control, 2014, 20, 4-13.	2.6	34
24	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
25	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
26	Optimal filtering of multivariate noisy AR processes. Signal, Image and Video Processing, 2013, 7, 873-878.	2.7	0
27	Prediction error method to estimate the ar parameters when the AR process is disturbed by a colored noise. , 2013, , .		3
28	Identification of many-core systems-on-chip with input and output noises. , 2013, , .		1
29	SCC Thermal Model Identification via Advanced Bias-Compensated Least-Squares. , 2013, , .		10
30	Structural health monitoring application of errors-in-variables identification. , 2013, , .		3
31	Errors-in-variables identification of thermal models for many-core computing systems. , 2013, , .		2
32	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
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	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
35	A Fast Algorithm for Errors-in-Variables Filtering. IEEE Transactions on Automatic Control, 2012, 57, 1303-1309.	5.7	1
36	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

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37	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
38	On the use of minimal parametrizations in multivariable output-error identification. , 2011, , .		0
39	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
40	Identification of ARX and ARARX Models in the Presence of Input and Output Noises. European Journal of Control, 2010, 16, 242-255.	2.6	43
41	Noisy FIR Identification as a Quadratic Eigenvalue Problem. IEEE Transactions on Signal Processing, 2009, 57, 4563-4568.	5.3	9
42	Identification of autoregressive models in the presence of additive noise. International Journal of Adaptive Control and Signal Processing, 2008, 22, 465-481.	4.1	28
43	A Bias-Compensated Identification Approach for Noisy FIR Models. IEEE Signal Processing Letters, 2008, 15, 325-328.	3.6	27
44	EIV-based fault diagnosis in a light sport aircraft. , 2008, , .		0
45	A new approach for identifying noisy input-output FIR models. , 2008, , .		3
46	Speech Enhancement Combining Optimal Smoothing and Errors-In-Variables Identification of Noisy AR Processes. IEEE Transactions on Signal Processing, 2007, 55, 5564-5578.	5.3	46
47	Maximum likelihood identification of noisy input-output models. Automatica, 2007, 43, 464-472.	5.0	50
48	Blind identification and equalization of multichannel FIR systems in unbalanced noise environments. Signal Processing, 2007, 87, 654-664.	3.7	2
49	Fast filtering of noisy autoregressive signals. Signal Processing, 2007, 87, 2843-2849.	3.7	6
50	Residual Generator Identification and Design for Linear Multivariable Systems. , 2007, , 890-895.		0
51	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
52	A NEW ESTIMATION APPROACH FOR AR MODELS IN PRESENCE OF NOISE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 160-165.	0.4	13
53	Blind identification and equalization of two-channel FIR systems in unbalanced noise environments. Signal Processing, 2005, 85, 215-225.	3.7	14
54	Kalman filtering in extended noise environments. IEEE Transactions on Automatic Control, 2005, 50, 1396-1402.	5.7	39

#	ARTICLE	IF	CITATIONS
55	Optimal errors-in-variables filtering. <i>Automatica</i> , 2003, 39, 281-289.	5.0	27
56	Minimal representations of MIMO time-varying systems and realization of cyclostationary models. <i>Automatica</i> , 2003, 39, 1903-1914.	5.0	19
57	Algorithms for optimal errors-in-variables filtering. <i>Systems and Control Letters</i> , 2003, 48, 1-13.	2.3	15
58	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
59	Blind Estimation and Deconvolution of Communication Channels with Unbalanced Noise. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000, 33, 325-330.	0.4	6