

Miguel Martinez

List of Publications by Year in descending order

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44
papers

1,264
citations

361296

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35
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all docs

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docs citations

47
times ranked

1083
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Rules for Active Disturbance Rejection Controllers via Multiobjective Optimizationâ€”A Guide for Parameters Computation Based on Robustness. <i>Mathematics</i> , 2021, 9, 517.	1.1	5
2	A Comparison of Archiving Strategies for Characterization of Nearly Optimal Solutions under Multi-Objective Optimization. <i>Mathematics</i> , 2021, 9, 999.	1.1	1
3	A Unified Approach for the Identification of Wiener, Hammerstein, and Wienerâ€™Hammerstein Models by Using WH-EA and Multistep Signals. <i>Complexity</i> , 2020, 2020, 1-23.	0.9	5
4	WH-EA: An Evolutionary Algorithm for Wiener-Hammerstein System Identification. <i>Complexity</i> , 2018, 2018, 1-17.	0.9	9
5	Bibo Stabilisation of Continuousâ€™Time Takagiâ€™Sugeno Systems under Persistent Perturbations and Input Saturation. <i>International Journal of Applied Mathematics and Computer Science</i> , 2018, 28, 457-472.	1.5	2
6	Non-linear identification of a Peltier cell model using evolutionary multi-objective optimization * *This work was supported by the Ministerio de EconomÃa y Competitividad (Spain) [grant number DPI2015-71443-R] and the Universidad PolitÃ©cnica Salesiana (Ecuador) [CB-755-2015]. <i>IFAC-PapersOnLine</i> , 2017, 50, 4448-4453.	0.5	11
7	Preference driven multi-objective optimization design procedure for industrial controller tuning. <i>Information Sciences</i> , 2016, 339, 108-131.	4.0	23
8	A Smart-Distributed Pareto Front Using the ev-MOGA Evolutionary Algorithm. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1450002.	0.7	12
9	Controller tuning using evolutionary multi-objective optimisation: Current trends and applications. <i>Control Engineering Practice</i> , 2014, 28, 58-73.	3.2	104
10	Latent variable based model predictive control: Ensuring validity of predictions. <i>Journal of Process Control</i> , 2013, 23, 12-22.	1.7	9
11	Explicit predictive control with non-convex polyhedral constraints. <i>Automatica</i> , 2012, 48, 419-424.	3.0	1
12	Practice tool based on open source SCADA for experimentation in nonlinear control using the inverted pendulum. <i>Computer Applications in Engineering Education</i> , 2012, 20, 137-148.	2.2	1
13	An empirical study on parameter selection for multiobjective optimization algorithms using Differential Evolution. , 2011, , .		5
14	Maximal closed loop admissible set for linear systems with non-convex polyhedral constraints. <i>Journal of Process Control</i> , 2011, 21, 529-537.	1.7	11
15	Model predictive control relevant identification: multiple input multiple output against multiple input single output. <i>IET Control Theory and Applications</i> , 2010, 4, 1756-1766.	1.2	28
16	Data-driven latent-variable model-based predictive control for continuous processes. <i>Journal of Process Control</i> , 2010, 20, 1207-1219.	1.7	37
17	PLS-based model predictive control relevant identification: PLS-PH algorithm. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 100, 118-126.	1.8	34
18	Modelling preferences in multi-objective engineering design. <i>Engineering Applications of Artificial Intelligence</i> , 2010, 23, 1255-1264.	4.3	27

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19	Multiobjective optimization algorithm for solving constrained single objective problems. , 2010, , .		19
20	Exploring the role of pH in modulating the effects of lidocaine in virtual ischemic tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1615-H1624.	1.5	9
21	Genetic algorithms optimization for normalized normal constraint method under Pareto construction. Advances in Engineering Software, 2009, 40, 260-267.	1.8	33
22	Robust constrained receding-horizon predictive control via bounded data uncertainties. Mathematics and Computers in Simulation, 2009, 79, 1452-1471.	2.4	7
23	Applied Pareto multi-objective optimization by stochastic solvers. Engineering Applications of Artificial Intelligence, 2009, 22, 455-465.	4.3	46
24	Air management in a diesel engine using fuzzy control techniques. Information Sciences, 2009, 179, 3392-3409.	4.0	22
25	Robust and stable predictive control with bounded uncertainties. Journal of Mathematical Analysis and Applications, 2008, 342, 1003-1014.	0.5	6
26	Nonlinear predictive control based on local model networks for air management in diesel engines. Control Engineering Practice, 2008, 16, 1399-1413.	3.2	45
27	A new perspective on multiobjective optimization by enhanced normalized normal constraint method. Structural and Multidisciplinary Optimization, 2008, 36, 537-546.	1.7	66
28	LPV identification of a turbocharged diesel engine. Applied Numerical Mathematics, 2008, 58, 1553-1571.	1.2	24
29	Robust identification of non-linear greenhouse model using evolutionary algorithms. Control Engineering Practice, 2008, 16, 515-530.	3.2	28
30	Design of PDC fuzzy controllers under persistent disturbances and application in mechanical systems. Advances in Engineering Software, 2008, 39, 937-946.	1.8	3
31	Stabilization conditions of fuzzy systems under persistent perturbations and their application in nonlinear systems. Engineering Applications of Artificial Intelligence, 2008, 21, 1264-1276.	4.3	9
32	Non-linear robust identification using evolutionary algorithms. Engineering Applications of Artificial Intelligence, 2008, 21, 1397-1408.	4.3	6
33	Integrated multiobjective optimization and a priori preferences using genetic algorithms. Information Sciences, 2008, 178, 931-951.	4.0	54
34	A new graphical visualization of n-dimensional Pareto front for decision-making in multiobjective optimization. Information Sciences, 2008, 178, 3908-3924.	4.0	236
35	BIBO stabilisation of Takagi-Sugeno fuzzy systems under persistent perturbations using fuzzy output-feedback controllers. IET Control Theory and Applications, 2008, 2, 513-523.	1.2	12
36	Multi-objective engineering design using preferences. Engineering Optimization, 2008, 40, 253-269.	1.5	10

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37	GPC Robust Design Using Linear and/or Bilinear Matrix Inequalities*. European Journal of Control, 2007, 13, 451-467.	1.6	1
38	Non-linear robust identification of a greenhouse model using multi-objective evolutionary algorithms. Biosystems Engineering, 2007, 98, 335-346.	1.9	36
39	Predictive LPV control of a liquid-gas separation process. Advances in Engineering Software, 2007, 38, 466-474.	1.8	5
40	Model-based predictive control of greenhouse climate for reducing energy and water consumption. Computers and Electronics in Agriculture, 2007, 55, 49-70.	3.7	121
41	Global and well-distributed Pareto frontier by modified normalized normal constraint methods for bicriterion problems. Structural and Multidisciplinary Optimization, 2007, 34, 197-209.	1.7	22
42	Multiobjective controller design handling human preferences. Engineering Applications of Artificial Intelligence, 2006, 19, 927-938.	4.3	19
43	Generalized predictive control using genetic algorithms (GAGPC). Engineering Applications of Artificial Intelligence, 1998, 11, 355-367.	4.3	51
44	MIMO predictive control of temperature and humidity inside a greenhouse using simulated annealing (SA) as optimizer of a multicriteria index. Lecture Notes in Computer Science, 1998, , 271-279.	1.0	2