Miguel Martinez

List of Publications by Year
in descending order

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44 papers	1,264 citations	361296 20 h-index	360920 35 g-index
47 all docs	47 docs citations	47 times ranked	1083 citing authors

#	Article	IF	Citations
1	A new graphical visualization of n-dimensional Pareto front for decision-making in multiobjective optimization. Information Sciences, 2008, 178, 3908-3924.	4.0	236
2	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
3	Controller tuning using evolutionary multi-objective optimisation: Current trends and applications. Control Engineering Practice, 2014, 28, 58-73.	3.2	104
4	A new perspective on multiobjective optimization by enhanced normalized normal constraint method. Structural and Multidisciplinary Optimization, 2008, 36, 537-546.	1.7	66
5	Integrated multiobjective optimization and a priori preferences using genetic algorithms. Information Sciences, 2008, 178, 931-951.	4.0	54
6	Generalized predictive control using genetic algorithms (GAGPC). Engineering Applications of Artificial Intelligence, 1998, 11, 355-367.	4.3	51
7	Applied Pareto multi-objective optimization by stochastic solvers. Engineering Applications of Artificial Intelligence, 2009, 22, 455-465.	4.3	46
8	Nonlinear predictive control based on local model networks for air management in diesel engines. Control Engineering Practice, 2008, 16, 1399-1413.	3.2	45
9	Data-driven latent-variable model-based predictive control for continuous processes. Journal of Process Control, 2010, 20, 1207-1219.	1.7	37
10	Non-linear robust identification of a greenhouse model using multi-objective evolutionary algorithms. Biosystems Engineering, 2007, 98, 335-346.	1.9	36
11	PLS-based model predictive control relevant identification: PLS-PH algorithm. Chemometrics and Intelligent Laboratory Systems, 2010, 100, 118-126.	1.8	34
12	Genetic algorithms optimization for normalized normal constraint method under Pareto construction. Advances in Engineering Software, 2009, 40, 260-267.	1.8	33
13	Robust identification of non-linear greenhouse model using evolutionary algorithms. Control Engineering Practice, 2008, 16, 515-530.	3.2	28
14	Model predictive control relevant identification: multiple input multiple output against multiple input single output. IET Control Theory and Applications, 2010, 4, 1756-1766.	1.2	28
15	Modelling preferences in multi-objective engineering design. Engineering Applications of Artificial Intelligence, 2010, 23, 1255-1264.	4.3	27
16	LPV identification of a turbocharged diesel engine. Applied Numerical Mathematics, 2008, 58, 1553-1571.	1.2	24
17	Preference driven multi-objective optimization design procedure for industrial controller tuning. Information Sciences, 2016, 339, 108-131.	4.0	23
18	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

#	Article	IF	Citations
19	Air management in a diesel engine using fuzzy control techniques. Information Sciences, 2009, 179, 3392-3409.	4.0	22
20	Multiobjective controller design handling human preferences. Engineering Applications of Artificial Intelligence, 2006, 19, 927-938.	4.3	19
21	Multiobjective optimization algorithm for solving constrained single objective problems. , 2010, , .		19
22	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
23	A Smart-Distributed Pareto Front Using the ev-MOGA Evolutionary Algorithm. International Journal on Artificial Intelligence Tools, 2014, 23, 1450002.	0.7	12
24	Maximal closed loop admissible set for linear systems with non-convex polyhedral constraints. Journal of Process Control, 2011, 21, 529-537.	1.7	11
25	Non-linear identification of a Peltier cell model using evolutionary multi-objective optimization * *This work was supported by the Ministerio de EconomÃa y Com-petitividad (Spain) [grant number DPI2015-71443-R] and the Universidad PolitÃ©cnica Salesiana (Ecuador) [CB-755-2015]. IFAC-PapersOnLine, 2017, 50, 4448-4453.	0.5	11
26	Multi-objective engineering design using preferences. Engineering Optimization, 2008, 40, 253-269.	1.5	10
27	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
28	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
29	Latent variable based model predictive control: Ensuring validity of predictions. Journal of Process Control, 2013, 23, 12-22.	1.7	9
30	WH-EA: An Evolutionary Algorithm for Wiener-Hammerstein System Identification. Complexity, 2018, 2018, 1-17.	0.9	9
31	Robust constrained receding-horizon predictive control via bounded data uncertainties. Mathematics and Computers in Simulation, 2009, 79, 1452-1471.	2.4	7
32	Robust and stable predictive control with bounded uncertainties. Journal of Mathematical Analysis and Applications, 2008, 342, 1003-1014.	0.5	6
33	Non-linear robust identification using evolutionary algorithms. Engineering Applications of Artificial Intelligence, 2008, 21, 1397-1408.	4.3	6
34	Predictive LPV control of a liquidâ€“gas separation process. Advances in Engineering Software, 2007, 38, 466-474.	1.8	5
35	An empirical study on parameter selection for multiobjective optimization algorithms using Differential Evolution. , 2011, , .		5
36	A Unified Approach for the Identification of Wiener, Hammerstein, and Wienerâ€“Hammerstein Models by Using WH-EA and Multistep Signals. Complexity, 2020, 2020, 1-23.	0.9	5

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37	Tuning Rules for Active Disturbance Rejection Controllers via Multiobjective Optimizationâ€"A Guide for Parameters Computation Based on Robustness. Mathematics, 2021, 9, 517.	1.1	5
38	Design of PDC fuzzy controllers under persistent disturbances and application in mechanical systems. Advances in Engineering Software, 2008, 39, 937-946.	1.8	3
39	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
40	Bibo Stabilisation of Continuousâ€"Time Takagiâ€"Sugeno Systems under Persistent Perturbations and Input Saturation. International Journal of Applied Mathematics and Computer Science, 2018, 28, 457-472.	1.5	2
41	GPC Robust Design Using Linear and/or Bilinear Matrix Inequalities*. European Journal of Control, 2007, 13, 451-467.	1.6	1
42	Explicit predictive control with non-convex polyhedral constraints. Automatica, 2012, 48, 419-424.	3.0	1
43	Practice tool based on open source SCADA for experimentation in nonlinear control using the inverted pendulum. Computer Applications in Engineering Education, 2012, 20, 137-148.	2.2	1
44	A Comparison of Archiving Strategies for Characterization of Nearly Optimal Solutions under Multi-Objective Optimization. Mathematics, 2021, 9, 999.	1.1	1