

# Miguel Martinez

## List of Publications by Year in descending order

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44  
papers

1,264  
citations

361413  
20  
h-index

361022  
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.	6.9	236
2	Model-based predictive control of greenhouse climate for reducing energy and water consumption. Computers and Electronics in Agriculture, 2007, 55, 49-70.	7.7	121
3	Controller tuning using evolutionary multi-objective optimisation: Current trends and applications. Control Engineering Practice, 2014, 28, 58-73.	5.5	104
4	A new perspective on multiobjective optimization by enhanced normalized normal constraint method. Structural and Multidisciplinary Optimization, 2008, 36, 537-546.	3.5	66
5	Integrated multiobjective optimization and a priori preferences using genetic algorithms. Information Sciences, 2008, 178, 931-951.	6.9	54
6	Generalized predictive control using genetic algorithms (GAGPC). Engineering Applications of Artificial Intelligence, 1998, 11, 355-367.	8.1	51
7	Applied Pareto multi-objective optimization by stochastic solvers. Engineering Applications of Artificial Intelligence, 2009, 22, 455-465.	8.1	46
8	Nonlinear predictive control based on local model networks for air management in diesel engines. Control Engineering Practice, 2008, 16, 1399-1413.	5.5	45
9	Data-driven latent-variable model-based predictive control for continuous processes. Journal of Process Control, 2010, 20, 1207-1219.	3.3	37
10	Non-linear robust identification of a greenhouse model using multi-objective evolutionary algorithms. Biosystems Engineering, 2007, 98, 335-346.	4.3	36
11	PLS-based model predictive control relevant identification: PLS-PH algorithm. Chemometrics and Intelligent Laboratory Systems, 2010, 100, 118-126.	3.5	34
12	Genetic algorithms optimization for normalized normal constraint method under Pareto construction. Advances in Engineering Software, 2009, 40, 260-267.	3.8	33
13	Robust identification of non-linear greenhouse model using evolutionary algorithms. Control Engineering Practice, 2008, 16, 515-530.	5.5	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.	2.1	28
15	Modelling preferences in multi-objective engineering design. Engineering Applications of Artificial Intelligence, 2010, 23, 1255-1264.	8.1	27
16	LPV identification of a turbocharged diesel engine. Applied Numerical Mathematics, 2008, 58, 1553-1571.	2.1	24
17	Preference driven multi-objective optimization design procedure for industrial controller tuning. Information Sciences, 2016, 339, 108-131.	6.9	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.	3.5	22

#	ARTICLE	IF	CITATIONS
19	Air management in a diesel engine using fuzzy control techniques. Information Sciences, 2009, 179, 3392-3409.	6.9	22
20	Multiobjective controller design handling human preferences. Engineering Applications of Artificial Intelligence, 2006, 19, 927-938.	8.1	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.	2.1	12
23	A Smart-Distributed Pareto Front Using the ev-MOGA Evolutionary Algorithm. International Journal on Artificial Intelligence Tools, 2014, 23, 1450002.	1.0	12
24	Maximal closed loop admissible set for linear systems with non-convex polyhedral constraints. Journal of Process Control, 2011, 21, 529-537.	3.3	11
25	Non-linear identification of a Peltier cell model using evolutionary multi-objective optimization * *This work was supported by the Ministerio de Econom�a y Competitividad (Spain) [grant number DPI2015-71443-R] and the Universidad Polit�cnica Salesiana (Ecuador) [CB-755-2015]. IFAC-PapersOnLine, 2017, 50, 4448-4453.	0.9	11
26	Multi-objective engineering design using preferences. Engineering Optimization, 2008, 40, 253-269.	2.6	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.	8.1	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.	3.2	9
29	Latent variable based model predictive control: Ensuring validity of predictions. Journal of Process Control, 2013, 23, 12-22.	3.3	9
30	WH-EA: An Evolutionary Algorithm for Wiener-Hammerstein System Identification. Complexity, 2018, 2018, 1-17.	1.6	9
31	Robust constrained receding-horizon predictive control via bounded data uncertainties. Mathematics and Computers in Simulation, 2009, 79, 1452-1471.	4.4	7
32	Robust and stable predictive control with bounded uncertainties. Journal of Mathematical Analysis and Applications, 2008, 342, 1003-1014.	1.0	6
33	Non-linear robust identification using evolutionary algorithms. Engineering Applications of Artificial Intelligence, 2008, 21, 1397-1408.	8.1	6
34	Predictive LPV control of a liquid-gas separation process. Advances in Engineering Software, 2007, 38, 466-474.	3.8	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 Wiener-Hammerstein Models by Using WH-EA and Multistep Signals. Complexity, 2020, 2020, 1-23.	1.6	5

#	ARTICLE	IF	CITATIONS
37	Tuning Rules for Active Disturbance Rejection Controllers via Multiobjective Optimizationâ€”A Guide for Parameters Computation Based on Robustness. Mathematics, 2021, 9, 517.	2.2	5
38	Design of PDC fuzzy controllers under persistent disturbances and application in mechanical systems. Advances in Engineering Software, 2008, 39, 937-946.	3.8	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.	1.3	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.	2.6	1
42	Explicit predictive control with non-convex polyhedral constraints. Automatica, 2012, 48, 419-424.	5.0	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.	3.4	1
44	A Comparison of Archiving Strategies for Characterization of Nearly Optimal Solutions under Multi-Objective Optimization. Mathematics, 2021, 9, 999.	2.2	1