

# Maria Castilla

## List of Publications by Year in descending order

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41  
papers

783  
citations

858243

12  
h-index

591227

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g-index

44  
all docs

44  
docs citations

44  
times ranked

1091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cost function optimization for predictive control of a five-phase IM drive. Optimal Control Applications and Methods, 2020, 41, 84-93.	1.3	16
2	Multiobjective control architecture to estimate optimal set points for user comfort and energy saving in buildings. ISA Transactions, 2020, 99, 454-464.	3.1	11
3	Very Short-Term Power Forecasting of High Concentrator Photovoltaic Power Facility by Implementing Artificial Neural Network. Energies, 2020, 13, 3493.	1.6	9
4	Event-based state-space model predictive control of a renewable hydrogen-based microgrid for office power demand profiles. Journal of Power Sources, 2020, 450, 227670.	4.0	22
5	A Hardware-in-the-Loop Prototype to design Benchmarks for Automation and Control Education. IFAC-PapersOnLine, 2020, 53, 17314-17319.	0.5	4
6	An Indoor Illuminance Prediction Model Based on Neural Networks for Visual Comfort and Energy Efficiency Optimization Purposes. Lecture Notes in Computer Science, 2019, , 146-156.	1.0	4
7	Development of an open experimentation tool based on JavaScript for the control of a four-tank plant. Computer Applications in Engineering Education, 2018, 26, 228-238.	2.2	2
8	An Artificial Neural Network (ANN) model to predict the electric load profile for an HVAC system – This work has been funded by the grant from the Spanish Ministry of Economy and Competitiveness (ENERPRO DPI 2014-56364-C2-1-R). Yaser I. Alamin is a fellow of the MARHABA, an Erasmus Mundus Lot 3 project. Jos Domingo varez is a fellow of the Spanish “Ramn y Cajal” contract program, co-financed by the European Social Fund. Antonio Ruano acknowledges the support of FCT through IDMEC, under LAETA grant UID/. IFAC-PapersOnLine, 2018, 51, 26-31.	0.5	17
9	Repetitive Control to Improve Users’ Thermal Comfort and Energy Efficiency in Buildings. Energies, 2018, 11, 976.	1.6	5
10	Optimal Management of a Microgrid to Guarantee users’ Thermal Comfort. , 2018, , .		2
11	Optimizaci3n de Funciones de Coste para Control Predictivo de Mquinas de Inducci3n Multifsicas. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 16, 48.	0.6	8
12	PhotoBioLib: A Modelica library for modeling and simulation of large-scale photobioreactors. Computers and Chemical Engineering, 2017, 98, 12-20.	2.0	7
13	cFertigUAL: A fertigation management app for greenhouse vegetable crops. Agricultural Water Management, 2017, 183, 186-193.	2.4	27
14	An Economic Model-Based Predictive Control to Manage the Users’ Thermal Comfort in a Building. Energies, 2017, 10, 321.	1.6	32
15	A Comparison of Energy Consumption Prediction Models Based on Neural Networks of a Bioclimatic Building. Energies, 2016, 9, 57.	1.6	83
16	Architecture to develop semi-virtual industrial laboratories for the interactive learning of process automation. Computer Applications in Engineering Education, 2016, 24, 335-346.	2.2	10
17	A proposal for teaching SCADA systems using Virtual Industrial Plants in Engineering Education. IFAC-PapersOnLine, 2016, 49, 138-143.	0.5	3
18	A room simulation tool for thermal comfort control in a bioclimatic building: A real example of use with an optimal controller. Optimal Control Applications and Methods, 2016, 37, 479-495.	1.3	4

#	ARTICLE	IF	CITATIONS
19	An efficient modelling for temperature control of residential buildings. Building and Environment, 2016, 103, 86-98.	3.0	13
20	Semi-virtual Plant for the Modelling, Control and Supervision of batch-processes. An example of a greenhouse irrigation system. IFAC-PapersOnLine, 2015, 48, 123-128.	0.5	5
21	A comparison between temperature modeling strategies in smart buildings. , 2015, , .		2
22	A fuzzy controller for visual comfort inside a meeting-room. , 2015, , .		5
23	A Comparative Analysis of Room Air Temperature Modelling for Control Purposes. , 2015, , .		1
24	Thermal comfort control using a non-linear MPC strategy: A real case of study in a bioclimatic building. Journal of Process Control, 2014, 24, 703-713.	1.7	76
25	A prediction model based on neural networks for the energy consumption of a bioclimatic building. Energy and Buildings, 2014, 82, 142-155.	3.1	131
26	Comfort in Buildings. Advances in Industrial Control, 2014, , 39-78.	0.4	2
27	A Neural Network Model for Energy Consumption Prediction of CIESOL Bioclimatic Building. Advances in Intelligent Systems and Computing, 2014, , 51-60.	0.5	9
28	Comfort Control Techniques for the Users of a Room. Advances in Industrial Control, 2014, , 143-218.	0.4	1
29	Minimization of the Operation Costs of a Solar/Gas Airconditioning System Using Duration-based Predictive Control. Energy Procedia, 2013, 42, 784-793.	1.8	3
30	Neural network and polynomial approximated thermal comfort models for HVAC systems. Building and Environment, 2013, 59, 107-115.	3.0	67
31	Subharmonic content in Finite-State Model Predictive Current Control of IM. , 2013, , .		6
32	A multivariable nonlinear MPC control strategy for thermal comfort and indoor-air quality. , 2013, , .		12
33	Productiveness and Real Time Prices in energy management for HVAC systems. , 2013, , .		8
34	Repetitive control to counteract the effect of people on thermal comfort control. , 2013, , .		1
35	A nonlinear model based predictive control strategy to maintain thermal comfort inside a bioclimatic building. , 2012, , .		8
36	A comparison of thermal comfort predictive control strategies. Energy and Buildings, 2011, 43, 2737-2746.	3.1	120

#	ARTICLE	IF	CITATIONS
37	Thermal Comfort Predictive Control Strategies for a Solar Energy Research Center. , 2011, , .		0
38	Remote Laboratory for a Flexible Manufacturing Cell. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 168-173.	0.4	0
39	Comfort optimization in a solar energy research center. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 36-41.	0.4	4
40	T�cnicas de Control del Confort en Edificios. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 5-24.	0.6	18
41	Economic dispatch of a bioclimatic office building considering thermal energy, electricity and water demands. Renewable Energy and Power Quality Journal, 0, 18, 568-573.	0.2	0