

Jose L Guzmán

List of Publications by Year in descending order

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219
papers

3,623
citations

117453

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47
g-index

232
all docs

232
docs citations

232
times ranked

2484
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning rules for feedforward control from measurable disturbances combined with PID control: a review. <i>International Journal of Control</i> , 2024, 97, 2-15.	1.2	16
2	A New IoT-Based Platform for Greenhouse Crop Production. <i>IEEE Internet of Things Journal</i> , 2022, 9, 6325-6334.	5.5	19
3	A computer-based tool to simulate raceway photobioreactors for design, operation and control purposes. <i>Computers and Chemical Engineering</i> , 2022, 156, 107572.	2.0	2
4	A nonlinear control approach for hybrid solar thermal plants based on operational conditions. <i>Renewable Energy</i> , 2022, 183, 114-129.	4.3	8
5	A model-based methodology for the early warning detection of cucumber downy mildew in greenhouses: An experimental evaluation. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106751.	3.7	5
6	Optimizaci3n de temperatura en reactores raceway para la producci3n de microalgas mediante regulaci3n de nivel. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2022, 19, 164-173.	0.6	3
7	A new control strategy to improve the mass transfer capacity and reduce air injection costs in raceway reactors. <i>New Biotechnology</i> , 2022, 70, 49-56.	2.4	4
8	A seasonal simulation approach for culture depth influence on the temperature for different characterized microalgae strains. <i>Biotechnology Journal</i> , 2022, 17, e2100489.	1.8	5
9	A stabilizing predictive controller with implicit feedforward compensation for stable and time-delayed systems. <i>Journal of Process Control</i> , 2022, 115, 12-26.	1.7	6
10	A new model to analyze the temperature effect on the microalgae performance at large scale raceway reactors. <i>Biotechnology and Bioengineering</i> , 2021, 118, 877-889.	1.7	19
11	Web-Based Virtual Lab for Learning Design, Operation, Control, and Optimization of an Anaerobic Digestion Process. <i>Journal of Science Education and Technology</i> , 2021, 30, 319-330.	2.4	12
12	Evaluation of an Interpolated Controller in an Industrial Photobioreactor. <i>IEEE Access</i> , 2021, 9, 24406-24415.	2.6	1
13	Modelling and pH Control in Raceway and Thin-Layer Photobioreactors for Wastewater Treatment. <i>Energies</i> , 2021, 14, 1099.	1.6	8
14	An Interactive Tool for Simulation of Biological Models Into the Wastewater Treatment With Microalgae. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	3
15	A fast and practical one-dimensional transient model for greenhouse temperature and humidity. <i>Computers and Electronics in Agriculture</i> , 2021, 186, 106186.	3.7	26
16	Experimental evaluation of feedforward tuning rules. <i>Control Engineering Practice</i> , 2021, 114, 104877.	3.2	10
17	ABACO: A New Model of Microalgae-Bacteria Consortia for Biological Treatment of Wastewaters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 998.	1.3	37
18	Indirect regulation of temperature in raceway reactors by optimal management of culture depth. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1186-1198.	1.7	16

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19	Dynamic Model for the pH in a Raceway Reactor Using Deep Learning Techniques. Lecture Notes in Electrical Engineering, 2021, , 190-199.	0.3	2
20	Simple Tuning Rules for Feedforward Compensators Applied to Greenhouse Daytime Temperature Control Using Natural Ventilation. Agronomy, 2020, 10, 1327.	1.3	11
21	Diurnal and nocturnal pH control in microalgae raceway reactors by combining classical and event-based control approaches. Water Science and Technology, 2020, 82, 1155-1165.	1.2	11
22	Revisiting the simplified IMC tuning rules for low-order controllers: Novel 2DoF feedback controller. IET Control Theory and Applications, 2020, 14, 1700-1710.	1.2	9
23	Revisiting the simplified internal model control tuning rules for low-order controllers: feedforward controller. IET Control Theory and Applications, 2020, 14, 1612-1618.	1.2	5
24	Modelado y control de la producción de microalgas en fotobiorreactores industriales. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 18, 1.	0.6	16
25	Biomass estimation of an industrial raceway photobioreactor using an extended Kalman filter and a dynamic model for microalgae production. Algal Research, 2019, 37, 103-114.	2.4	15
26	Application of a Symmetric-Send-On-Delta event-based controller for a microalgal raceway reactor. , 2019, , .		1
27	Control System for pH in Raceway Photobioreactors Based on Wiener Models. IFAC-PapersOnLine, 2019, 52, 928-933.	0.5	18
28	Robust QFT-Based Feedback Linearization Controller of the Greenhouse Diurnal Temperature Using Natural Ventilation. IEEE Access, 2019, 7, 64148-64161.	2.6	11
29	Daytime/Nighttime Event-Based PI Control for the pH of a Microalgae Raceway Reactor. Processes, 2019, 7, 247.	1.3	16
30	Linear active disturbance rejection control for a raceway photobioreactor. Control Engineering Practice, 2019, 85, 271-279.	3.2	26
31	Evaluation of photosynthetic light integration by microalgae in a pilot-scale raceway reactor. Bioresource Technology, 2019, 280, 404-411.	4.8	45
32	Greenhouse Models as a Service (GMaaS) for Simulation and Control. IFAC-PapersOnLine, 2019, 52, 190-195.	0.5	5
33	Predictive Active Disturbance Rejection Control for Insulin Infusion in Patients with T1DM. IFAC-PapersOnLine, 2019, 52, 105-110.	0.5	1
34	Event-Based Feedforward Control of Linear Systems with input Time-Delay. International Journal of Applied Mathematics and Computer Science, 2019, 29, 541-553.	1.5	3
35	A model-based control scheme for depth of hypnosis in anesthesia. Biomedical Signal Processing and Control, 2018, 42, 216-229.	3.5	25
36	Asynchronous periodic event-triggered control with dynamical controllers. Journal of the Franklin Institute, 2018, 355, 3455-3469.	1.9	9

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37	Event-Based Generalized Predictive Control. , 2018, , 151-176.		1
38	New Interactive Books for Control Education $\hat{\sim}$ $\hat{\sim}$ This work has been partially funded by the IEEE Control	0.5	5
39	Robust QFT-based PI controller for a feedforward control scheme $\hat{\sim}$ $\hat{\sim}$ This work has been partially funded by the following projects: DPI2014-55932-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish) Tj ETQq1 1 0.784314	0.5	1
40	A Multivariable Controller for the Start-up Procedure of a Solar Membrane Distillation Facility. IFAC-PapersOnLine, 2018, 51, 376-381.	0.5	5
41	Inverse pole placement method for PI control in the tracking problem $\hat{\sim}$ $\hat{\sim}$ This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-56364-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Economy, Industry and Competitiveness and EU-ERDF funds).. IFAC-PapersOnLine, 2018, 51, 406-411.	0.5	1
42	Active Disturbance Rejection and PID Control of a One-stage Refrigeration Cycle. IFAC-PapersOnLine, 2018, 51, 444-449.	0.5	8
43	Use of the benchmark for PID control in engineering studies at the University of Almería $\hat{\sim}$ $\hat{\sim}$ This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-56364-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Economy Industry and Competitiveness and) Tj ETQq1 1 0.784314 rgBT /O	0.5	1
44	Development of Basic Process Control Structures $\hat{\sim}$ $\hat{\sim}$ This work was partly supported by the Vinnova strategic program PiiA in Sweden, and the projects DPI2014-55932-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Science and Innovation and EU- ERDF funds).. IFAC-PapersOnLine, 2018, 51, 775-780.	0.5	6
45	Two-degree-of-freedom control scheme for depth of hypnosis in anesthesia $\hat{\sim}$ $\hat{\sim}$ This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-55932-C2-2-R, DPI2014-56364-C2-1-R and DPI2012-31303 financed by the Spanish Ministry of Economy and Competitiveness 72-77.	0.5	8
46	Nonlinear Control of a Fan-Coil Operation. , 2018, , .		0
47	Application of Predictive Feedforward Compensator to Microalgae Production in a Raceway Reactor: A Simulation Study. Energies, 2018, 11, 123.	1.6	8
48	Event-Based GPC for Multivariable Processes: A Practical Approach With Sensor Deadband. IEEE Transactions on Control Systems Technology, 2017, 25, 1621-1633.	3.2	7
49	An Object-Oriented Library for Process Control Simulations in MATLAB. IFAC-PapersOnLine, 2017, 50, 15686-15691.	0.5	2
50	Using a Nonlinear Model Predictive Control strategy for the efficient operation of a solar-powered membrane distillation system. , 2017, , .		1
51	Event-Based Control Systems for Microalgae Culture in Industrial Reactors. , 2017, , 1-48.		5
52	Dynamic Modeling of Microalgal Production in Photobioreactors. , 2017, , 49-87.		5
53	Evaluation of event-based irrigation system control scheme for tomato crops in greenhouses. Agricultural Water Management, 2017, 183, 16-25.	2.4	41
54	A low-cost embedded controller design for selective spraying vehicle * *This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-55932-C2-2-R, DPI2014-56364-C2-1-R and and the UNED through a postdoctoral scholarship.. IFAC-PapersOnLine, 2017, 50, 5404-5409.	0.5	1

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55	Closed-loop tuning rules for feedforward compensator gains * *This work has been partially funded by the following project DPI2014-55932-C2-1-R financed by the Spanish Ministry of Economy and Competitiveness and EU- ERDF funds. IFAC-PapersOnLine, 2017, 50, 7523-7528.	0.5	6
56	Predictive feedforward compensator for dead-time processes * *This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-55932-C2-2-R, DPI2014-56364-C2-1-R and and the UNED through a postdoctoral scholarship.. IFAC-PapersOnLine, 2017, 50, 1239-1244.	0.5	2
57	Event-based GPC for depth of hypnosis in anesthesia for efficient use of propofol. , 2017, , .		6
58	Hybrid modelling for a biomass-based system for heating and CO2 enrichment. Acta Horticulturae, 2017, , 159-166.	0.1	0
59	The Comparison Study of Short-Term Prediction Methods to Enhance the Model Predictive Controller Applied to Microgrid Energy Management. Energies, 2017, 10, 884.	1.6	12
60	Development and test verification of air temperature model for Chinese solar and Spanish Almeria-type greenhouse. International Journal of Agricultural and Biological Engineering, 2017, 10, 66-76.	0.3	7
61	Measurable Disturbances Compensation: Analysis and Tuning of Feedforward Techniques for Dead-Time Processes. Processes, 2016, 4, 12.	1.3	6
62	Tools and methodologies for teaching robotics in computer science & engineering studies. Computer Applications in Engineering Education, 2016, 24, 202-214.	2.2	22
63	Dynamic model of an industrial raceway reactor for microalgae production. Algal Research, 2016, 17, 67-78.	2.4	47
64	Updated Website and Links Repository of the IFAC's TC 9.4. IFAC-PapersOnLine, 2016, 49, 162-167.	0.5	0
65	Event-based selective control strategy for raceway reactor: A simulation study * *This work has been supported by Cajamar Foundation and partially funded by the following projects: DPI2014- 55932-C2-1-R,		

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73	A practical hybrid predictive control algorithm for a low-temperature thermosolar plant. Optimal Control Applications and Methods, 2016, 37, 508-520.	1.3	7
74	Optimization of biomass production in outdoor tubular photobioreactors. Journal of Process Control, 2016, 37, 58-69.	1.7	32
75	On the filtered Smith predictor with feedforward compensation. Journal of Process Control, 2016, 41, 35-46.	1.7	29
76	An Interactivity-Based Methodology to Support Control Education: How to Teach and Learn Using Simple Interactive Tools [Lecture Notes]. IEEE Control Systems, 2016, 36, 63-76.	1.0	39
77	Distributed Sliding Mode Control of pH in Tubular Photobioreactors. IEEE Transactions on Control Systems Technology, 2016, 24, 1160-1173.	3.2	26
78	A hybrid-controlled approach for maintaining nocturnal greenhouse temperature: Simulation study. Computers and Electronics in Agriculture, 2016, 123, 116-124.	3.7	33
79	Robust design methodology for simultaneous feedforward and feedback tuning. IET Control Theory and Applications, 2016, 10, 84-94.	1.2	12
80	Hierarchical Non-linear Control of a Tubular Photobioreactor. IFAC-PapersOnLine, 2015, 48, 224-229.	0.5	2
81	Distributed MPC for resource-constrained control systems. Optimal Control Applications and Methods, 2015, 36, 272-291.	1.3	11
82	Modelling of a non-commercial UAV for control and robotics laboratory. IFAC-PapersOnLine, 2015, 48, 65-69.	0.5	3
83	Event-based GPC for multivariable processes. , 2015, , .		1
84	Teaching Control Engineering Concepts using Open Source tools on a Raspberry Pi board**This work has been partially funded by the following projects: DPI2014- 55932-C2-1-R and DPI2014-56364-C2-1-R (financed by the Spanish Ministry of Science and Innovation and EU- ERDF funds). IFAC-PapersOnLine, 2015, 48, 99-104.	0.5	14
85	Understanding closed-loop identification with ITCLI. IFAC-PapersOnLine, 2015, 48, 739-744.	0.5	4
86	Performance indices for feedforward control. Journal of Process Control, 2015, 26, 26-34.	1.7	20
87	Support system for decision making in the management of the greenhouse environmental based on growth model for sweet pepper. Agricultural Systems, 2015, 139, 144-152.	3.2	12
88	Selective pH and dissolved oxygen control strategy for a raceway reactor within an event-based approach. Control Engineering Practice, 2015, 44, 209-218.	3.2	42
89	Water content virtual sensor for tomatoes in coconut coir substrate for irrigation control design. Agricultural Water Management, 2015, 151, 114-125.	2.4	22
90	Modeling and Control of Greenhouse Crop Growth. Advances in Industrial Control, 2015, , .	0.4	41

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91	The Greenhouse Dynamical System. <i>Advances in Industrial Control</i> , 2015, , 9-97.	0.4	4
92	Lagrange interpolation for signal reconstruction in event-based GPC. , 2014, , .		2
93	Robust constrained economic receding horizon control applied to the two time-scale dynamics problem of a greenhouse. <i>Optimal Control Applications and Methods</i> , 2014, 35, 435-453.	1.3	23
94	Autonomous Tracked Robots in Planar Off-Road Conditions. <i>Studies in Systems, Decision and Control</i> , 2014, , .	0.8	20
95	Event-based predictive control of pH in tubular photobioreactors. <i>Computers and Chemical Engineering</i> , 2014, 65, 28-39.	2.0	44
96	Generalized Predictive Control With Actuator Deadband for Event-Based Approaches. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 523-537.	7.2	39
97	Optimal feedforward compensators for systems with right-half plane zeros. <i>Journal of Process Control</i> , 2014, 24, 368-374.	1.7	12
98	Efficient building energy management using distributed model predictive control. <i>Journal of Process Control</i> , 2014, 24, 740-749.	1.7	75
99	Filtered Smith Predictor with nonlinear model applied to a solar field. , 2014, , .		2
100	Advanced Control Strategy Combined with Solar Cooling for Improving Ethanol Production in Fermentation Units. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11384-11392.	1.8	7
101	Effective utilization of flue gases in raceway reactor with event-based pH control for microalgae culture. <i>Bioresource Technology</i> , 2014, 170, 1-9.	4.8	64
102	First Principles Model of a Tubular Photobioreactor for Microalgal Production. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11121-11136.	1.8	34
103	A lumped parameter chemical-physical model for tubular photobioreactors. <i>Chemical Engineering Science</i> , 2014, 112, 116-129.	1.9	19
104	Symmetric send-on-delta PI control of a greenhouse system. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 4411-4416.	0.4	8
105	Model correction mechanism for nonlinear time variant systems as support to predictive control strategies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 5975-5980.	0.4	1
106	ITCLI : An Interactive Tool for Closed-Loop Identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 12249-12254.	0.4	6
107	Optimal feedforward compensators for integrating plants. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 170-175.	0.4	3
108	Event-based predictive control triggered by input and output deadband conditions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 8116-8121.	0.4	0

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109	Boundary Control of an Industrial Tubular Photobioreactor Using Sliding Mode Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4903-4908.	0.4	4
110	Understanding PID design through interactive tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12243-12248.	0.4	17
111	Modelling Tracked Robots in Planar Off-Road Conditions. Studies in Systems, Decision and Control, 2014, , 11-33.	0.8	2
112	Interactivity in education: An experience in the automatic control field. Computer Applications in Engineering Education, 2013, 21, 360-371.	2.2	47
113	Control of off-road mobile robots using visual odometry and slip compensation. Advanced Robotics, 2013, 27, 893-906.	1.1	16
114	Perspectives on control-relevant identification through the use of interactive tools. Control Engineering Practice, 2013, 21, 171-183.	3.2	15
115	A combined FSP and reset control approach to improve the set-point tracking task of dead-time processes. Control Engineering Practice, 2013, 21, 351-359.	3.2	10
116	Implementation of feedback linearization GPC control for a solar furnace. Journal of Process Control, 2013, 23, 1545-1554.	1.7	22
117	Control-oriented modelling of the solar climatization of a public building in Mediterranean climate. , 2013, , .		1
118	Generalized feedforward tuning rules for non-realizable delay inversion. Journal of Process Control, 2013, 23, 1241-1250.	1.7	28
119	Hybrid modeling of a solar-thermal heating facility. Solar Energy, 2013, 97, 577-590.	2.9	26
120	Viability and application of ethanol production coupled with solar cooling. Applied Energy, 2013, 102, 501-509.	5.1	12
121	Unified PID Tuning Approach for Stable, Integrative, and Unstable Dead-Time Processes. Industrial & Engineering Chemistry Research, 2013, 52, 16811-16819.	1.8	16
122	An interactive CAD tool to teach and learn Nyquist criterion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 55-60.	0.4	4
123	Development of interactive books for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 150-155.	0.4	7
124	An educational software to develop robot mapping and localization practices using visual information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 174-179.	0.4	0
125	Teaching Cascaded Controllers with a Fuel Cell Plant in a Hands-on Laboratory. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 203-207.	0.4	4
126	Distributed model predictive control for energy distribution. , 2013, , .		3

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127	Virtual Sensors for Designing Irrigation Controllers in Greenhouses. <i>Sensors</i> , 2012, 12, 15244-15266.	2.1	26
128	Integrated virtual and remote lab for greenhouse climate control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 264-269.	0.4	0
129	Interactive Tools to Learn Basic Concepts of Nonlinear Systems Linearization Through a Case Study*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 66-71.	0.4	7
130	A New Framework to develop Web-based Interactive Tools for Control Education. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 183-188.	0.4	7
131	Unified PID Tuning Approach for Stable, Integrative and Unstable Dead-Time Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 35-40.	0.4	11
132	i-pIDtune: An interactive tool for integrated system identification and PID control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 146-151.	0.4	9
133	ITCRI: An Interactive Software Tool for Evaluating Control-Relevant Identification*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 1529-1534.	0.4	1
134	Improvements on the Filtered Smith Predictor using the Clegg Integrator. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 110-115.	0.4	3
135	Filtered Smith Predictor to control pH during enzymatic hydrolysis of microalgae to produce l-aminoacids concentrates. <i>Chemical Engineering Science</i> , 2012, 82, 121-131.	1.9	15
136	A feedback linearization GPC control strategy for a solar furnace. , 2012, , .		3
137	Combined visual odometry and visual compass for off-road mobile robots localization. <i>Robotica</i> , 2012, 30, 865-878.	1.3	44
138	Dynamic model of microalgal production in tubular photobioreactors. <i>Bioresource Technology</i> , 2012, 126, 172-181.	4.8	66
139	An interactive software tool for system identification. <i>Advances in Engineering Software</i> , 2012, 45, 115-123.	1.8	36
140	A practical approach for Generalized Predictive Control within an event-based framework. <i>Computers and Chemical Engineering</i> , 2012, 41, 52-66.	2.0	22
141	Multiobjective hierarchical control architecture for greenhouse crop growth. <i>Automatica</i> , 2012, 48, 490-498.	3.0	87
142	Improving feedforward disturbance compensation capabilities in Generalized Predictive Control. <i>Journal of Process Control</i> , 2012, 22, 527-539.	1.7	46
143	Learning Switching Control: A Tank Level-Control Exercise. <i>IEEE Transactions on Education</i> , 2012, 55, 226-232.	2.0	16
144	Feedforward Compensation for PID Control Loops. <i>Advances in Industrial Control</i> , 2012, , 207-234.	0.4	9

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145	Design and implementation of an automatic pressure-control system for a mobile sprayer for greenhouse applications. Spanish Journal of Agricultural Research, 2012, 10, 939.	0.3	11
146	Online robust tube-based MPC for time-varying systems: a practical approach. International Journal of Control, 2011, 84, 1157-1170.	1.2	72
147	MODELLING OF TOMATO CROP TRANSPIRATION DYNAMICS FOR DESIGNING NEW IRRIGATION CONTROLLERS. Acta Horticulturae, 2011, , 729-737.	0.1	1
148	Study of fundamental control concepts through interactive learning objects. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7286-7291.	0.4	6
149	Predictive Control with Disturbance Forecasting for Greenhouse Diurnal Temperature Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1779-1784.	0.4	21
150	Practical MPC with robust dead-time compensation applied to a solar desalination plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4909-4914.	0.4	10
151	Feedforward control concepts through Interactive Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6361-6366.	0.4	6
152	ITCRI: An Interactive Software Tool for Control-Relevant Identification Education*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6367-6372.	0.4	3
153	Robust tube-based predictive control for mobile robots in off-road conditions. Robotics and Autonomous Systems, 2011, 59, 711-726.	3.0	47
154	A comparison of thermal comfort predictive control strategies. Energy and Buildings, 2011, 43, 2737-2746.	3.1	120
155	Takagi Sugeno control of nocturnal temperature in greenhouses using air heating. ISA Transactions, 2011, 50, 315-320.	3.1	30
156	Nonlinear MPC based on a Volterra series model for greenhouse temperature control using natural ventilation. Control Engineering Practice, 2011, 19, 354-366.	3.2	81
157	A switching control strategy applied to a solar collector field. Control Engineering Practice, 2011, 19, 135-145.	3.2	36
158	The input amplitude saturation problem in QFT: A survey. Annual Reviews in Control, 2011, 35, 34-55.	4.4	15
159	Simple tuning rules for feedforward compensators. Journal of Process Control, 2011, 21, 92-102.	1.7	67
160	Local model predictive controller in a solar desalination plant collector field. Renewable Energy, 2011, 36, 3001-3012.	4.3	37
161	Filtered Smith predictor with feedback linearization and constraints handling applied to a solar collector field. Solar Energy, 2011, 85, 1056-1067.	2.9	18
162	Interactive Tool to Teach Solar Parabolic Trough Concepts. , 2011, , .		3

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163	Control Predictivo por Desacoplo con Compensación de Perturbaciones para el Benchmark de Control 2009-2010. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2011, 8, 112-121.	0.6	6
164	Thermal Comfort Predictive Control Strategies for a Solar Energy Research Center. , 2011, , .		0
165	Teaching System Identification Through Interactivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 43-48.	0.4	0
166	Remote Laboratory for a Flexible Manufacturing Cell. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 168-173.	0.4	0
167	Diurnal greenhouse temperature control with predictive control and online constraints mapping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 140-145.	0.4	4
168	Filtered Smith predictor with feedback linearization and constraints handling applied to a solar collector field. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 152-157.	0.4	0
169	Modelling and Control Issues of pH in Tubular Photobioreactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 186-191.	0.4	20
170	An open-source graphical library for the development of Interactive Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 37-42.	0.4	1
171	Comfort optimization in a solar energy research center. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 36-41.	0.4	4
172	Robust Nonlinear Predictive Control Applied to a Solar Collector Field in a Solar Desalination Plant. IEEE Transactions on Control Systems Technology, 2010, , .	3.2	18
173	Application of time-series methods to disturbance estimation in predictive control problems. , 2010, , .		19
174	A Wireless Sensor Network for greenhouse climate monitoring. , 2010, , .		10
175	Bumpless switching in control - A comparative study. , 2010, , .		14
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