Francisco R Rubio

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Flying Chameleons: A New Concept for Minimum-Deployment, Multiple-Target Tracking Drones. Sensors, 2022, 22, 2359.	2.1	1
2	Comparison of control strategies for HCPV sun tracking. European Journal of Control, 2021, 62, 165-170.	1.6	3
3	Calibration-Free HCPV Sun Tracking Strategy. Lecture Notes in Electrical Engineering, 2021, , 170-179.	0.3	0
4	Power feedback strategy based on efficiency trajectory analysis for HCPV sun tracking. Renewable Energy, 2020, 161, 65-76.	4.3	5
5	Auto-calibration method for high concentration sun trackers. Solar Energy, 2020, 198, 311-323.	2.9	10
6	Optimal control applied to distributed solar collector fields with partial radiation. Solar Energy, 2018, 159, 811-819.	2.9	25
7	Optimal Control of Solar Thermal Plants with Energy Storage. , 2018, , .		1
8	Control Óptimo Aplicado a Campos de Colectores Solares Distribuidos. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 327.	0.6	11
9	A distributed parameters model for soil water content: Spatial and temporal variability analysis. Agricultural Water Management, 2017, 183, 101-106.	2.4	4
10	Optimum operating temperature of parabolic trough solar fields. Solar Energy, 2017, 158, 295-302.	2.9	9
11	Model predictive control with state estimation for freeway systems. , 2017, , .		5
12	Optimum Control of Parabolic Trough Solar Fields with Partial Radiation * *This work was supported by the projects DPI2013-44135-R and DPI2015-70973-R granted by the Spanish Ministry of Science and Innovation. IFAC-PapersOnLine, 2017, 50, 109-114.	0.5	6
13	Suboptimal distributed control and estimation: application to a four coupled tanks system. International Journal of Systems Science, 2016, 47, 1755-1771.	3.7	15
14	Kalman-inspired distributed set-membership observers. , 2016, , .		1
15	Switched observer-based ramp metering controllers for freeway systems. , 2016, , .		7
16	Modeling and simulation of parabolic trough solar fields with partial radiation. , 2016, , .		5
17	Guaranteed Quadrotor Position Estimation Based on GPS Refreshing Measurementsâ^—â^—The authors would like to thank the MCeI for funding this work through projects DPI2010-19154 and DPI2012-37580-C02-02, as well as FAPEMIG and Programa Institucional de AuxÁ l io à Pesquisa de Doutores Recém Contratados of the PRPo/UFMG_FAC-PapersOnLine_2015_48_67-72	0.5	5
18	Modeling and Control of the tPVTOLâ^—â^—This work was partially supported by the spanish Ministry of Education (MECD) under national research projects DPI2012 — 37580 — CO2 — O2 and DPI2013 — 44135 R IFAC-PapersOnLine, 2015, 48, 150-155.	â€ë	2

#	Article	IF	CITATIONS
19	An asynchronous technique for distributed estimation based on zonotopes. , 2015, , .		1
20	Multi-operating-point robust control of a one-stage refrigeration cycle. , 2015, , .		1
21	Distributed consensus-based switched observers for freeway traffic density estimation. , 2015, , .		8
22	Agent-based guaranteed estimation and control of nonlinear systems. , 2015, , .		2
23	Distributed Control and Estimation Scheme With Applications to Process Control. IEEE Transactions on Control Systems Technology, 2015, 23, 1563-1570.	3.2	15
24	<i>H</i> ₂ â^• <i>H</i> _{â^žâ€‰} control for discrete TDS with application to control systems: Periodic and asynchronous communication. Optimal Control Applications and Methods, 2015, 36, 60-76.	to network 1.3	red 8
25	Distributed estimation in networked systems under periodic and event-based communication policies. International Journal of Systems Science, 2015, 46, 139-151.	3.7	28
26	Two-wheeled self-balanced pendulum workspace improvement via underactuated robust nonlinear control. Control Engineering Practice, 2015, 44, 231-242.	3.2	30
27	Controllability analysis and robust control of a one-stage refrigeration system. European Journal of Control, 2015, 26, 53-62.	1.6	9
28	Autonomous path tracking control design for a comercial quadcoptera ² —This work was partially supported by the Spanish Ministry of Ed-ucation (MECD) under national research projects DPI2012-37580-CO2 and DPI2013-44135-R. Corresponding authors are with the Department of Systems Engineering and Automation. University of Seville, Spain. (e-mail: rubio@us.es). IFAC-PapersOnLine, 2015, 49, 72, 78	0.5	6
29	Multivariable analysis and H â^ž control of a one-stage refrigeration cycle. Applied Thermal Engineering, 2015, 91, 1156-1167.	3.0	24
30	Design, automation and control of a two-stage, two-load-demand experimental refrigeration plant. , 2015, , .		7
31	AnHâ^žsuboptimal robust control approach for systems with uncertainties and data dropouts. International Journal of Systems Science, 2015, 46, 1971-1981.	3.7	3
32	Robust Nonlinear Control for Path Tracking of a Quadâ€Rotor Helicopter. Asian Journal of Control, 2015, 17, 142-156.	1.9	42
33	Stochastic MPC with applications to process control. International Journal of Control, 2015, 88, 792-800.	1.2	12
34	Guaranteed Estimation for Distributed Networked Control Systems. Lecture Notes in Electrical Engineering, 2015, , 231-240.	0.3	2
35	Improved H <inf>2</inf> /H <inf>∞</inf> Control Design for Time Delay Systems: Synthesis and Analysis. , 2014, , .		1
36	Energy efficiency and quality of service optimization for constant bit rate real-time applications in 802.11 networks. Wireless Communications and Mobile Computing, 2014, 14, 583-595.	0.8	2

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37	Event-based <i>H</i> ₂ / <i>H</i> _{â^ž} controllers for networked control systems. International Journal of Control, 2014, 87, 2488-2498.	1.2	13
38	Formation Control of Autonomous Underwater Vehicles Subject to Communication Delays. IEEE Transactions on Control Systems Technology, 2014, 22, 770-777.	3.2	172
39	Periodicity of Kalman-based scheduled filters. Automatica, 2014, 50, 2672-2676.	3.0	14
40	Scheduled Communication in Sensor Networks. IEEE Transactions on Control Systems Technology, 2014, 22, 801-808.	3.2	12
41	Sensor-network-based robust distributed control and estimation. Control Engineering Practice, 2013, 21, 1238-1249.	3.2	44
42	Reduced-order <i>H</i> ₂ / <i>H</i> _{â^ž} distributed observer for sensor networks. International Journal of Control, 2013, 86, 1870-1879.	1.2	26
43	Solar Energy Fundamentals. Advances in Industrial Control, 2012, , 1-23.	0.4	19
44	Integrated Control of Solar Systems. Advances in Industrial Control, 2012, , 369-385.	0.4	0
45	Other Solar Applications. Advances in Industrial Control, 2012, , 315-368.	0.4	0
46	A variable structure observer for unknown input estimation in sampled systems. , 2012, , .		1
47	Design and Application of Suboptimal Mixed \$H_{2}/H_{infty}\$ Controllers for Networked Control Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1057-1065.	3.2	27
48	Photovoltaics. Advances in Industrial Control, 2012, , 49-66.	0.4	0
49	Distributed consensus-based estimation considering network induced delays and dropouts. Automatica, 2012, 48, 2726-2729.	3.0	95
50	Advanced Control of Parabolic Troughs. Advances in Industrial Control, 2012, , 129-238.	0.4	2
51	Basic Control of Parabolic Troughs. Advances in Industrial Control, 2012, , 67-127.	0.4	2
52	Variable structure observer for discrete-time multi-output systems. , 2012, , .		6
53	Control Issues in Solar Systems. Advances in Industrial Control, 2012, , 25-47.	0.4	8
54	Control of Solar Energy Systems. Advances in Industrial Control, 2012, , .	0.4	91

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55	Modeling of a Cocurrent Rotary Dryer. Drying Technology, 2012, 30, 839-849.	1.7	25
56	Control of Central Receiver Systems. Advances in Industrial Control, 2012, , 239-313.	0.4	1
57	Asymptotic analysis and consistent estimation of high-dimensional Markowitz portfolios. , 2011, , .		Ο
58	Adaptive Delta Modulation in Networked Controlled Systems With bounded Disturbances. IEEE Transactions on Automatic Control, 2011, 56, 129-134.	3.6	29
59	Path Tracking of a UAV via an Underactuated Control Strategy. European Journal of Control, 2011, 17, 194-213.	1.6	54
60	Mixed H2/Hâ^ž robust control approach for NCS with uncertainties and data dropouts*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13269-13274.	0.4	0
61	Stability and Performance of Networked Control Systems with Time-multiplexed Sensors and Oversampled Observer*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9200-9205.	0.4	1
62	Nonlinear Hâ^ž Controller for the Quad-Rotor Helicopter with Input Coupling*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13834-13839.	0.4	38
63	Self-triggered sampling selection based on quadratic programming*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8896-8901.	0.4	8
64	Asynchronous networked control of linear systems via L2-gain-based transformations: analysis and synthesis. IET Control Theory and Applications, 2011, 5, 647-654.	1.2	4
65	Robust stability of nonlinear timeâ€delay systems with interval timeâ€varying delay. International Journal of Robust and Nonlinear Control, 2011, 21, 709-724.	2.1	21
66	Spectral convergence for a general class of random matrices. Statistics and Probability Letters, 2011, 81, 592-602.	0.4	29
67	A CLT on the SINR of the diagonally loaded Capon/MVDR beamformer. , 2011, , .		3
68	A robust filter and controller design for NCS with uncertainties and data dropouts. , 2011, , .		0
69	Application of position and inertial-rate control to a 2-DOF gyroscopic platform. Robotics and Computer-Integrated Manufacturing, 2010, 26, 344-353.	6.1	9
70	An integral predictive/nonlinear <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si21.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi </mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi>control structure for a quadrotor helicopter. Automatica, 2010, 46, 29-39.</mml:mrow></mml:msub></mml:math>	> < <i>]</i> mml:m	nath>
71	Delay-dependent robust stability analysis for systems with interval delays. , 2010, , .		6

72 Optimal networked control of a 2 degree-of-freedom direct drive robot manipulator. , 2010, , .

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#	Article	IF	CITATIONS
73	Control de Posición e Inercial de Plataforma de Dos Grados de Libertad. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 65-73.	0.6	О
74	Asynchronous control of unstable linear systems via L <inf>2</inf> -gain-based transformations. , 2009, , .		0
75	Model-based networked control systems under parametric uncertainties. , 2009, , .		3
76	Delta-Modulation Coding Redesign for Feedback-Controlled Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 2684-2696.	5.2	31
77	Control Predictivo en Cascada de un VehÃculo Autónomo. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2009, 6, 63-74.	0.6	3
78	D-OSKIL: A New Mechanism for Controlling Stick-Slip Oscillations in Oil Well Drillstrings. IEEE Transactions on Control Systems Technology, 2008, 16, 1177-1191.	3.2	67
79	An algorithm to compensate for large data dropouts in Networked control systems. , 2008, , .		Ο
80	Backstepping/nonlinear H <inf>∞</inf> control for path tracking of a quadrotor unmanned aerial vehicle. , 2008, , .		83
81	Networked predictive control of systems with data dropouts. , 2008, , .		7
82	MPC with Nonlinear â,,‹â^ž Control for Path Tracking of a Quad-Rotor Helicopter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8564-8569.	0.4	29
83	Adaptive Delta-modulation Coding for Networked Controlled Systems. , 2007, , .		20
84	Control no lineal robusto de una maqueta de helicóptero con rotores de velocidad variable. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2007, 4, 46-60.	0.6	6
85	Nonlinear â"‹ <inf>â^ž</inf> control applied to the Personal Pendulum Car. , 2007, , .		6
86	A survey on control schemes for distributed solar collector fields. Part II: Advanced control approaches. Solar Energy, 2007, 81, 1252-1272.	2.9	166
87	A survey on control schemes for distributed solar collector fields. Part I: Modeling and basic control approaches. Solar Energy, 2007, 81, 1240,1251 Nonlinear < mini:math altimg="\$1.gif" display="inline" overflow="scroll"	2.9	201
88	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	3.0	32
89	xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x Application of new control strategy for sun tracking. Energy Conversion and Management, 2007, 48, 2174-2184.	4.4	151
90	Multivariable robust control of a rotary dryer: Analysis and design. Control Engineering Practice, 2007, 15, 487-500.	3.2	19

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#	Article	IF	Citations
91	Improved design of the weighting matrices for the S/KS/T mixed sensitivity problem-application to a multivariable thermodynamic system. IEEE Transactions on Control Systems Technology, 2006, 14, 82-90.	3.2	24
92	Stability of the D-OSKIL Oscillation Suppression Mechanism for Oil Well Drillstrings. , 2006, , .		0
93	NONLINEAR Hâ^ž MEASUREMENT FEEDBACK CONTROL OF EULER-LAGRANGE SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 391-396.	0.4	3
94	Robustness improvement of a nonlinearHâ^ž controller for robot manipulators via saturation functions. Journal of Field Robotics, 2005, 22, 421-437.	0.7	30
95	Systematic design of weighting matrices for the Hâ^ž mixed sensitivity problem. Journal of Process Control, 2004, 14, 89-98.	1.7	67
96	An artificial vision-based control system for automatic heliostat positioning offset correction in a central receiver solar power plant. Solar Energy, 2004, 76, 563-575.	2.9	101
97	Computed-Torque Scheme for 6 DOF Hybrid Feature/Position-Based Visual Servoing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 157-164.	0.4	0
98	Improving the Performance of Orbitally-Stabilizing Controls for the Furuta Pendulum. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 81-86.	0.4	1
99	Dead-time compensation for ABR traffic control over ATM networks. Control Engineering Practice, 2002, 10, 481-491.	3.2	31
100	Bifurcation analysis of a feedback system with dead zone and saturation. IEEE Control Systems, 2000, 20, 91-101.	1.0	14
101	Temperature control of a solar furnace. IEEE Control Systems, 1999, 19, 8-24.	1.0	50
102	Advanced Control of Solar Plants. Advances in Industrial Control, 1997, , .	0.4	119
103	Design of a combined tracking control system. Control Engineering Practice, 1997, 5, 23-31.	3.2	6
104	Fuzzy logic control of a solar power plant. IEEE Transactions on Fuzzy Systems, 1995, 3, 459-468.	6.5	79
105	Application of a gain scheduling generalized predictive controller to a solar power plant. Control Engineering Practice, 1994, 2, 227-238.	3.2	77
106	Self-tuning control of a solar power plant with a distributed collector field. IEEE Control Systems, 1992, 12, 72-78.	1.0	97
107	Chaotic motion in an adaptive control systemâ€. International Journal of Control, 1985, 42, 353-360.	1.2	33

108 LQG/LTR control of ship steering autopilots. , 0, , .

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#	Article	IF	CITATIONS
109	Control of resonant converters using the LQC/LTR method. , 0, , .		4
110	Implementing the CORBA notification service for JavaIDL. , 0, , .		0
111	A combined Hâ^žQFT control of a rotary dryer. , 0, , .		0
112	An H/sub â^ž/ controller for a double rotor system. , 0, , .		4
113	D-OSKIL: a New Mechanism for Suppressing Stick-Slip in Oil Well Drillstrings. , 0, , .		9