Josep M Rossell

List of Publications by Year
in descending order

81 papers	1,115 citations	430874 18 h-index	434195 31 g-index
84 all docs	84 docs citations	84 times ranked	782 citing authors

#	Article	IF	Citations
1	Static output-feedback control under information structure constraints. Automatica, 2013, 49, 313-316.	5.0	109
2	Study of Spanish mining accidents using data mining techniques. Safety Science, 2015, 75, 49-55.	4.9	106
3	Semiactive–passive structural vibration control strategy for adjacent structures under seismic excitation. Journal of the Franklin Institute, 2012, 349, 3003-3026.	3.4	61
4	Design of inerter-based multi-actuator systems for vibration control of adjacent structures. Journal of the Franklin Institute, 2019, 356, 7785-7809.	3.4	47
5	Feasibility issues in static output-feedback controller design with application to structural vibration control. Journal of the Franklin Institute, 2014, 351, 139-155.	3.4	43
6	Structure of Expansion-Contraction Matrices in the Inclusion Principle for Dynamic Systems. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 1136-1155.	1.4	41
7	Analysis of Occupational Accidents in Underground and Surface Mining in Spain Using Data-Mining Techniques. International Journal of Environmental Research and Public Health, 2018, 15, 462.	2.6	40
8	Generalized selection of complementary matrices in the inclusion principle. IEEE Transactions on Automatic Control, 2000, 45, 1237-1243.	5.7	37
9	Robust Overlapping Guaranteed Cost Control of Uncertain State-Delay Discrete-Time Systems. IEEE Transactions on Automatic Control, 2006, 51, 1943-1950.	5.7	37
10	Analysis of work related accidents in the Spanish mining sector from 1982-2006. Journal of Safety Research, 2010, 41, 1-7.	3.6	36
11	Decentralised reliable guaranteed cost control of uncertain systems: an LMI design. IET Control Theory and Applications, 2007, 1, 779-785.	2.1	35
12	Vibration control for adjacent structures using local state information. Mechatronics, 2014, 24, 336-344.	3.3	33
13	Decentralized static output–feedback H_∞ controller design for buildings under seismic excitation. Earthquake Engineering and Structural Dynamics, 2012, 41, 1199-1205.	4.4	32
14	Overlapping reliable control for a cable-stayed bridge benchmark. IEEE Transactions on Control Systems Technology, 2005, 13, 663-669.	5.2	30
15	emi-decentralized Strategies in Structural Vibration Control. Modeling, Identification and Control, 2011, 32, 57-77.	1.1	28
16	Preservation of controllability-observability in expanded systems. IEEE Transactions on Automatic Control, 2001, 46, 1155-1162.	5.7	25
17	Static output–feedback controller design for vehicle suspensions: an effective two–step computational approach. IET Control Theory and Applications, 2014, 8, 1566-1574.	2.1	25
18	ptimal passive-damping design using a decentralized velocity-feedback H-Infinity approach. Modeling, Identification and Control, 2012, 33, 87-97.	1.1	24

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19	Sequential design of multi-overlapping controllers for longitudinal multi-overlapping systems. Applied Mathematics and Computation, 2010, 217, 1170-1183.	2.2	17
20	Influence of occupational safety management on the incidence rate of occupational accidents in the Spanish industrial and ornamental stone mining. Work, 2014, 49, 307-314.	1.1	16
21	Overlapping Quadratic Optimal Control of Linear Time-Varying Commutative Systems. SIAM Journal on Control and Optimization, 2002, 40, 1611-1627.	2.1	15
22	OVERLAPPING GUARANTEED COST CONTROL FOR UNCERTAIN CONTINUOUS-TIME DELAYED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 39-44.	0.4	15
23	Controllabilityâ€"observability of expanded composite systems. Linear Algebra and Its Applications, 2001, 332-334, 381-400.	0.9	13
24	Recent Advances in Static Output-Feedback Controller Design with Applications to Vibration Control of Large Structures. Modeling, Identification and Control, 2014, 35, 169-190.	1.1	13
25	Discrete-time static output-feedback semi-decentralized H<inf>&#x221E;</inf> controller design: An application to structural vibration control. , 2012, , .		12
26	Predicting instrumental mass fractionation (IMF) of stable isotope SIMS analyses by response surface methodology (RSM). Journal of Analytical Atomic Spectrometry, 2017, 32, 731-748.	3.0	12
27	Integrated Design of Hybrid Interstory-Interbuilding Multi-Actuation Schemes for Vibration Control of Adjacent Buildings under Seismic Excitations. Applied Sciences (Switzerland), 2017, 7, 323.	2.5	12
28	An effective computational design strategy for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si29.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></m... vibration control of large structures with information constraints. Engineering Structures, 2018, 171, 298-308.	5.3	12
29	Overlapping Resilient HG Control for Uncertain Time-Delayed Systems. , 0, , .		11
30	Vibration control strategy for largeâ€scale structures with incomplete multiâ€actuator system and neighbouring state information. IET Control Theory and Applications, 2016, 10, 407-416.	2.1	11
31	Advanced computational design of shared tuned mass-inerter dampers for vibration control of adjacent multi-story structures * *Partially supported by the Spanish Ministry of Economy and Competitiveness under Grant DPI2015-64170-R/FEDER.. IFAC-PapersOnLine, 2017, 50, 13366-13371.	0.9	11
32	Static Output-Feedback Control for Vehicle Suspensions: A Single-Step Linear Matrix Inequality Approach. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	10
33	Contractibility of dynamic LTI controllers using complementary matrices. IEEE Transactions on Automatic Control, 2003, 48, 1269-1274.	5.7	9
34	Discrete-Time Multioverlapping Controller Design for Structural Vibration Control of Tall Buildings under Seismic Excitation. Mathematical Problems in Engineering, 2012, 2012, 1-20.	1.1	8
35	Sequential design of multioverlapping controllers for structural vibration control of tall buildings under seismic excitation. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 176-183.	1.0	8
36	Structural Vibration Control for a Class of Connected Multistructure Mechanical Systems. Mathematical Problems in Engineering, 2012, 2012, 1-23.	1.1	7

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37	Safety culture maturity assessment for mining activities in South America. Work, 2018, 61, 125-133.	1.1	7
38	Landing gear suspension control through adaptive backstepping techniques with Hâˇž performance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4809-4814.	0.4	6
39	Passive-damping design for vibration control of large structures. , 2013, , .		6
40	Analysis and synthesis of control systems over wireless digital channels. Journal of the Franklin Institute, 2017, 354, 3649-3653.	3.4	6
41	A Novel Iterative Linear Matrix Inequality Design Procedure for Passive Inter-Substructure Vibration Control. Applied Sciences (Switzerland), 2020, 10, 5859.	2.5	6
42	Overlapping guaranteed cost control for time-varying discrete-time uncertain systems. , 2002, , .		6
43	Exploratory Analysis of Spanish Energetic Mining Accidents. International Journal of Occupational Safety and Ergonomics, 2012, 18, 209-219.	1.9	5
44	Inclusion principle for uncertain discrete-time systems with guaranteed cost. , 2004, , .		4
45	Design of Reliable Output Feedback Control for Uncertain Interconnected Systems Using LMI. , 0, , .		4
46	Active-passive control strategy for adjacent buildings. , 2011, , .		4
47	Advanced design of integrated vibration control systems for adjacent buildings under seismic excitations. Journal of Physics: Conference Series, 2016, 744, 012163.	0.4	4
48	An effective strategy of real-time vision-based control for a Stewart platform. , 2018, , .		4
49	Distributed Passive Actuation Schemes for Seismic Protection of Multibuilding Systems. Applied Sciences (Switzerland), 2020, 10, 2383.	2.5	4
50	Sparking the Interest of Girls in Computer Science via Chemical Experimentation and Robotics: The Qui-Bot H2O Case Study. Sensors, 2022, 22, 3719.	3.8	4
51	Optimal Design of Complex Passive-Damping Systems for Vibration Control of Large Structures: An Energy-to-Peak Approach. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	3
52	Tracking control for a Stewart platform prototype. , 2015, , .		3
53	Design of Distributed Multi-Actuator Systems with Incomplete State Information for Vibration Control of Large Structures. Designs, 2018, 2, 6.	2.4	3
54	Temperature Prediction Model in the Main Ventilation System of an Underground Mine. Applied Sciences (Switzerland), 2020, 10, 7238.	2.5	3

#	ARTICLE	IF	CITATIONS
55	Static output-feedback vibration control of seismically excited buildings: An effective multistep approach. , 2020, , 157-184.		3
56	The Art of Control Algorithms Design and Implementation. Advances in Science and Technology, 0, , .	0.2	2
57	A velocity-based seismic control for base-isolated building structures. , 2009, , .		2
58	Active Vibration Control in Mechanical Systems. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	2
59	LMI-Based Design of Distributed Energy-Dissipation Systems for Vibration Control of Large Multi-story Structures. Procedia Engineering, 2017, 199, 1749-1754.	1.2	2
60	Hybrid Passivity Based and Fuzzy Type-2 Controller for Chaotic and Hyper-Chaotic Systems. Acta Mechanica Et Automatica, 2017, 11, 96-103.	0.6	2
61	Analysis of Occupational Accidents in the Spanish Mining Sector in the Period 2009â€"2018. International Journal of Environmental Research and Public Health, 2021, 18, 13122.	2.6	2
62	Overlapping Guaranteed Cost Control for Uncertain Discrete-Time Systems 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 43-48.	0.4	1
63	Overlapping Resilient H2 Filtering for Uncertain Continuous-Time Systems. Proceedings of the American Control Conference, 2007, , .	0.0	1
64	Design of guaranteed cost overlapping controllers for a class of uncertain state-delay systems. , 2009, , .		1
65	Active-Passive Decentralized Hˆž Control for Adjacent Buildings Under Seismic Excitation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1410-1415.	0.4	1
66	Evolution in the law of transport noise in England. Transportation Research, Part D: Transport and Environment, 2021, 100, 103050.	6.8	1
67	COMPUTATIONAL EFFECTIVENESS OF LMI DESIGN STRATEGIES FOR VIBRATION CONTROL OF LARGE STRUCTURES. , 2016, , .		1
68	Adaptive self-recurrent wavelet neural network and sliding mode controller/observer for a slider crank mechanism. International Journal of Computer Applications in Technology, 2020, 63, 273.	0.5	1
69	Overlapping LQ Control of Discrete-Time Time-Varying Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 389-394.	0.4	0
70	RELIABLE GUARANTEED COST CONTROL FOR PARAMETERIZED INTERCONNECTED SYSTEMS WITH LMI CHARACTERIZATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 814-819.	0.4	0
71	Optimal complementary matrices in systems with overlapping decomposition: A computational approach. , 2006, , .		0
72	A design procedure for overlapped guaranteed cost controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8701-8706.	0.4	0

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73	An LMI approach to H<inf>&#x221E;</inf> synchronization of second-order neutral master-slave systems. , 2009, , .		0
74	A contribution to the contractibility problem for overlapping controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 104-109.	0.4	0
75	A Mathematical Framework for Structural Control Integration. Advances in Science and Technology, 0, , .	0.2	0
76	Experimental study of an active control for a faulty perturbed flexible structure. , 2012, , .		0
77	Discrete-time static output-feedback H<inf>∞</inf> controller design for vehicle suspensions. , 2014, , .		0
78	Subsidence Analysis and Comparison between GPS Measurements and Interferometry. , 0, , .		0
79	Anti-windup Control of Nonlinear Cascade Systems with Particle Swarm Optimization Parameter Tuning. Lecture Notes in Electrical Engineering, 2020, , 3-16.	0.4	0
80	Assessment of errors in the transmission of the orientation and cartographic system from the surface to an underground mine. Journal of the South African Institute of Mining and Metallurgy, 2020, 120, .	0.5	0
81	Magnetic bearing for wind turbine power generator shaft: an emulator prototype design for vibration control. , 2018, , 215-235.		0