

Josep M Rossell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5091747/publications.pdf>

Version: 2024-02-01

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	Sparking the Interest of Girls in Computer Science via Chemical Experimentation and Robotics: The Qui-Bot H2O Case Study. <i>Sensors</i> , 2022, 22, 3719.	3.8	4
2	Evolution in the law of transport noise in England. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 100, 103050.	6.8	1
3	Analysis of Occupational Accidents in the Spanish Mining Sector in the Period 2009â€“2018. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 13122.	2.6	2
4	A Novel Iterative Linear Matrix Inequality Design Procedure for Passive Inter-Substructure Vibration Control. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5859.	2.5	6
5	Temperature Prediction Model in the Main Ventilation System of an Underground Mine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7238.	2.5	3
6	Static output-feedback vibration control of seismically excited buildings: An effective multistep approach. , 2020, , 157-184.		3
7	Distributed Passive Actuation Schemes for Seismic Protection of Multibuilding Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2383.	2.5	4
8	Anti-windup Control of Nonlinear Cascade Systems with Particle Swarm Optimization Parameter Tuning. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 3-16.	0.4	0
9	Adaptive self-recurrent wavelet neural network and sliding mode controller/observer for a slider crank mechanism. <i>International Journal of Computer Applications in Technology</i> , 2020, 63, 273.	0.5	1
10	Assessment of errors in the transmission of the orientation and cartographic system from the surface to an underground mine. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2020, 120, .	0.5	0
11	Design of inerter-based multi-actuator systems for vibration control of adjacent structures. <i>Journal of the Franklin Institute</i> , 2019, 356, 7785-7809.	3.4	47
12	An effective strategy of real-time vision-based control for a Stewart platform. , 2018, , .		4
13	Design of Distributed Multi-Actuator Systems with Incomplete State Information for Vibration Control of Large Structures. <i>Designs</i> , 2018, 2, 6.	2.4	3
14	Safety culture maturity assessment for mining activities in South America. <i>Work</i> , 2018, 61, 125-133.	1.1	7
15	Analysis of Occupational Accidents in Underground and Surface Mining in Spain Using Data-Mining Techniques. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 462.	2.6	40
16	An effective computational design strategy for H_{∞} vibration control of large structures with information constraints. <i>Engineering Structures</i> , 2018, 171, 298-308.		1
17	Magnetic bearing for wind turbine power generator shaft: an emulator prototype design for vibration control. , 2018, , 215-235.		0
18	Predicting instrumental mass fractionation (IMF) of stable isotope SIMS analyses by response surface methodology (RSM). <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 731-748.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Analysis and synthesis of control systems over wireless digital channels. Journal of the Franklin Institute, 2017, 354, 3649-3653.	3.4	6
20	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
21	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
22	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
23	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
24	Advanced design of integrated vibration control systems for adjacent buildings under seismic excitations. Journal of Physics: Conference Series, 2016, 744, 012163.	0.4	4
25	Vibration control strategy for large-scale structures with incomplete multi-actuator system and neighbouring state information. IET Control Theory and Applications, 2016, 10, 407-416.	2.1	11
26	COMPUTATIONAL EFFECTIVENESS OF LMI DESIGN STRATEGIES FOR VIBRATION CONTROL OF LARGE STRUCTURES. , 2016, , .		1
27	Tracking control for a Stewart platform prototype. , 2015, , .		3
28	Study of Spanish mining accidents using data mining techniques. Safety Science, 2015, 75, 49-55.	4.9	106
29	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
30	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
31	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
32	Discrete-time static output-feedback H _∞ controller design for vehicle suspensions. , 2014, , .		0
33	Active Vibration Control in Mechanical Systems. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	2
34	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
35	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
36	Vibration control for adjacent structures using local state information. Mechatronics, 2014, 24, 336-344.	3.3	33

#	ARTICLE	IF	CITATIONS
37	Static output-feedback control under information structure constraints. Automatica, 2013, 49, 313-316.	5.0	109
38	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
39	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
40	Passive-damping design for vibration control of large structures. , 2013, , .		6
41	Structural Vibration Control for a Class of Connected Multistructure Mechanical Systems. Mathematical Problems in Engineering, 2012, 2012, 1-23.	1.1	7
42	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
43	Experimental study of an active control for a faulty perturbed flexible structure. , 2012, , .		0
44	Exploratory Analysis of Spanish Energetic Mining Accidents. International Journal of Occupational Safety and Ergonomics, 2012, 18, 209-219.	1.9	5
45	Discrete-time static output-feedback semi-decentralized H_{∞} controller design: An application to structural vibration control. , 2012, , .		12
46	Optimal passive-damping design using a decentralized velocity-feedback H_{∞} approach. Modeling, Identification and Control, 2012, 33, 87-97.	1.1	24
47	Semiactive "passive structural vibration control strategy for adjacent structures under seismic excitation. Journal of the Franklin Institute, 2012, 349, 3003-3026.	3.4	61
48	Decentralized static output-feedback H_{∞} controller design for buildings under seismic excitation. Earthquake Engineering and Structural Dynamics, 2012, 41, 1199-1205.	4.4	32
49	Active-passive control strategy for adjacent buildings. , 2011, , .		4
50	Active-Passive Decentralized H_{∞} Control for Adjacent Buildings Under Seismic Excitation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1410-1415.	0.4	1
51	Landing gear suspension control through adaptive backstepping techniques with H_{∞} performance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4809-4814.	0.4	6
52	Semi-decentralized Strategies in Structural Vibration Control. Modeling, Identification and Control, 2011, 32, 57-77.	1.1	28
53	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
54	Analysis of work related accidents in the Spanish mining sector from 1982-2006. Journal of Safety Research, 2010, 41, 1-7.	3.6	36

#	ARTICLE	IF	CITATIONS
55	Sequential design of multi-overlapping controllers for longitudinal multi-overlapping systems. Applied Mathematics and Computation, 2010, 217, 1170-1183.	2.2	17
56	A velocity-based seismic control for base-isolated building structures. , 2009, , .		2
57	Design of guaranteed cost overlapping controllers for a class of uncertain state-delay systems. , 2009, , .		1
58	An LMI approach to H ₂ synchronization of second-order neutral master-slave systems. , 2009, , .		0
59	A design procedure for overlapped guaranteed cost controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8701-8706.	0.4	0
60	Overlapping Resilient H ₂ Filtering for Uncertain Continuous-Time Systems. Proceedings of the American Control Conference, 2007, , .	0.0	1
61	Decentralised reliable guaranteed cost control of uncertain systems: an LMI design. IET Control Theory and Applications, 2007, 1, 779-785.	2.1	35
62	Robust Overlapping Guaranteed Cost Control of Uncertain State-Delay Discrete-Time Systems. IEEE Transactions on Automatic Control, 2006, 51, 1943-1950.	5.7	37
63	Optimal complementary matrices in systems with overlapping decomposition: A computational approach. , 2006, , .		0
64	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
65	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
66	Overlapping reliable control for a cable-stayed bridge benchmark. IEEE Transactions on Control Systems Technology, 2005, 13, 663-669.	5.2	30
67	Inclusion principle for uncertain discrete-time systems with guaranteed cost. , 2004, , .		4
68	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
69	Contractibility of dynamic LTI controllers using complementary matrices. IEEE Transactions on Automatic Control, 2003, 48, 1269-1274.	5.7	9
70	Overlapping Quadratic Optimal Control of Linear Time-Varying Commutative Systems. SIAM Journal on Control and Optimization, 2002, 40, 1611-1627.	2.1	15
71	Overlapping guaranteed cost control for time-varying discrete-time uncertain systems. , 2002, , .		6
72	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

#	ARTICLE	IF	CITATIONS
73	Controllability-observability of expanded composite systems. Linear Algebra and Its Applications, 2001, 332-334, 381-400.	0.9	13
74	Preservation of controllability-observability in expanded systems. IEEE Transactions on Automatic Control, 2001, 46, 1155-1162.	5.7	25
75	Generalized selection of complementary matrices in the inclusion principle. IEEE Transactions on Automatic Control, 2000, 45, 1237-1243.	5.7	37
76	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
77	Overlapping Resilient HG Control for Uncertain Time-Delayed Systems. , 0, , .		11
78	Design of Reliable Output Feedback Control for Uncertain Interconnected Systems Using LMI. , 0, , .		4
79	The Art of Control Algorithms Design and Implementation. Advances in Science and Technology, 0, , .	0.2	2
80	A Mathematical Framework for Structural Control Integration. Advances in Science and Technology, 0, , .	0.2	0
81	Subsidence Analysis and Comparison between GPS Measurements and Interferometry. , 0, , .		0