

Raul-Cristian Roman

List of Publications by Year in descending order

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49
papers

1,374
citations

430843

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642715

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docs citations

49
times ranked

1260
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid data-driven fuzzy active disturbance rejection control for tower crane systems. <i>European Journal of Control</i> , 2021, 58, 373-387.	2.6	191
2	Model-free sliding mode control of nonlinear systems: Algorithms and experiments. <i>Information Sciences</i> , 2017, 381, 176-192.	6.9	118
3	Reinforcement Learning-based control using Q-learning and gravitational search algorithm with experimental validation on a nonlinear servo system. <i>Information Sciences</i> , 2022, 583, 99-120.	6.9	99
4	Slime Mould Algorithm-Based Tuning of Cost-Effective Fuzzy Controllers for Servo Systems. <i>International Journal of Computational Intelligence Systems</i> , 2021, 14, 1042.	2.7	94
5	Optimal tuning of interval type-2 fuzzy controllers for nonlinear servo systems using Slime Mould Algorithm. <i>International Journal of Systems Science</i> , 2023, 54, 2941-2956.	5.5	86
6	Combined Model-Free Adaptive Control with Fuzzy Component by Virtual Reference Feedback Tuning for Tower Crane Systems. <i>Procedia Computer Science</i> , 2019, 162, 267-274.	2.0	79
7	Second Order Intelligent Proportional-Integral Fuzzy Control of Twin Rotor Aerodynamic Systems. <i>Procedia Computer Science</i> , 2018, 139, 372-380.	2.0	69
8	Data-driven model reference control of MIMO vertical tank systems with model-free VRFT and Q-Learning. <i>ISA Transactions</i> , 2018, 73, 227-238.	5.7	67
9	Multi-input-multi-output system experimental validation of model-free control and virtual reference feedback tuning techniques. <i>IET Control Theory and Applications</i> , 2016, 10, 1395-1403.	2.1	64
10	Tensor product-based model transformation approach to tower crane systems modeling. <i>Asian Journal of Control</i> , 2021, 23, 1313-1323.	3.0	54
11	Model-Free control performance improvement using virtual reference feedback tuning and reinforcement Q-learning. <i>International Journal of Systems Science</i> , 2017, 48, 1071-1083.	5.5	51
12	Model-based fuzzy control results for networked control systems. <i>Reports in Mechanical Engineering</i> , 2020, 1, 10-25.	7.7	49
13	Experiment-Based Approach to Teach Optimization Techniques. <i>IEEE Transactions on Education</i> , 2021, 64, 88-94.	2.4	41
14	Combination of Data-Driven Active Disturbance Rejection and Takagi-Sugeno Fuzzy Control with Experimental Validation on Tower Crane Systems. <i>Energies</i> , 2019, 12, 1548.	3.1	35
15	Iterative Feedback Tuning Algorithm for Tower Crane Systems. <i>Procedia Computer Science</i> , 2022, 199, 157-165.	2.0	35
16	Grey Wolf Optimizer-Based Approaches to Path Planning and Fuzzy Logic-based Tracking Control for Mobile Robots. <i>International Journal of Computers, Communications and Control</i> , 2020, 15, .	1.8	33
17	Model-Free Control of Finger Dynamics in Prosthetic Hand Myoelectric-based Control Systems. <i>Studies in Informatics and Control</i> , 2020, 29, 399-410.	1.2	26
18	Virtual Reference Feedback Tuning of Model-Free Control Algorithms for Servo Systems. <i>Machines</i> , 2017, 5, 25.	2.2	23

#	ARTICLE	IF	CITATIONS
19	Tensor product-based model transformation for position control of magnetic levitation systems. , 2017, , .		19
20	Data-driven model-free control of twin rotor aerodynamic systems: Algorithms and experiments. , 2014, , .		13
21	Model-free fuzzy control of twin rotor aerodynamic systems. , 2017, , .		13
22	Model -Free Adaptive Control With Fuzzy Component for Tower Crane Systems. , 2019, , .		13
23	Data-driven optimal model-free control of twin rotor aerodynamic systems. , 2015, , .		7
24	Data-Driven Model-Free Sliding Mode and Fuzzy Control with Experimental Validation. International Journal of Computers, Communications and Control, 2021, 16, .	1.8	7
25	Data-based tuning of linear controllers for MIMO twin rotor systems. , 2013, , .		6
26	Mixed MFC-VRFT Approach for a multivariable aerodynamic system position control. , 2016, , .		6
27	Data-Driven Active Disturbance Rejection Control of Pendulum Cart Systems. , 2018, , .		6
28	Design of Low-Cost Fuzzy Controllers with Reduced Parametric Sensitivity Based on Whale Optimization Algorithm. , 2020, , .		6
29	MIMO Fuzzy Control Solutions for the Level Control of Vertical Two Tank Systems. , 2019, , .		6
30	Data-driven Model-Free Adaptive Control of twin rotor aerodynamic systems. , 2014, , .		5
31	Two data-driven control algorithms for a MIMO aerodynamic system with experimental validation. , 2015, , .		5
32	Evolving fuzzy models for the position control of twin rotor aerodynamic systems. , 2016, , .		5
33	Nature-Inspired Optimization Algorithms for Path Planning and Fuzzy Tracking Control of Mobile Robots. Springer Tracts in Nature-inspired Computing, 2021, , 129-148.	0.7	5
34	Virtual Reference Feedback Tuning of MIMO Data-Driven Model-Free Adaptive Control Algorithms. IFIP Advances in Information and Communication Technology, 2016, , 253-260.	0.7	4
35	Takagi-Sugeno fuzzy controller structures for twin rotor aerodynamic systems. , 2017, , .		4
36	Cascade Control Solutions for Maglev Systems. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
37	Tensor Product-Based Model Transformation and Sliding Mode Control of Electromagnetic Actuated Clutch System. , 2019, , .		4
38	A CENTER MANIFOLD THEORY-BASED APPROACH TO THE STABILITY ANALYSIS OF STATE FEEDBACK TAKAGI-SUGENO-KANG FUZZY CONTROL SYSTEMS. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 189.	4.6	4
39	Data-driven virtual reference feedback tuning and reinforcement Q-learning for model-free position control of an aerodynamic system. , 2016, , .		3
40	First-Order Active Disturbance Rejection-Virtual Reference Feedback Tuning Control of Tower Crane Systems. , 2020, , .		3
41	Models of Two-Wheeled Mobile Robots with Experimental Validation. , 2020, , .		3
42	AUTOMOTIVE APPLICATIONS OF EVOLVING TAKAGI-SUGENO-KANG FUZZY MODELS. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 231.	4.6	3
43	Tensor Product-Based Model Transformation Technique Applied to Servo Systems Modeling. , 2021, , .		2
44	Anti-lock braking systems data-driven control using Q-learning. , 2017, , .		1
45	Multi input-multi output tank system data-driven model reference control. , 2017, , .		1
46	Whale Optimization Algorithm-Based Tuning of Low-Cost Fuzzy Controllers with Reduced Parametric Sensitivity. , 2020, , .		1
47	Second Order Active Disturbance Rejection Control - Virtual Reference Feedback Tuning for Twin Rotor Aerodynamic Systems. , 2020, , .		1
48	Data-driven nonlinear VRFT for dead-zone compensation in servo systems control. , 2017, , .		0
49	Wilt Dataset-based Comparative Analysis of Three Neural Networks. , 2020, , .		0