

Javad Mohammadpour Velni

List of Publications by Year in descending order

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44
papers

462
citations

759233

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44
all docs

44
docs citations

44
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Plant Leaf Counting Using Deep Object Detection Networks. <i>Sensors</i> , 2020, 20, 6896.	3.8	46
2	State-space LPV model identification using kernelized machine learning. <i>Automatica</i> , 2018, 88, 38-47.	5.0	42
3	A New Voronoi-Based Blanket Coverage Control Method for Moving Sensor Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 409-417.	5.2	40
4	Energy Management of Islanded Nanogrids Through Nonlinear Optimization Using Stochastic Dynamic Programming. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 2129-2137.	4.9	27
5	Design of robust profitable false data injection attacks in multi-settlement electricity markets. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 1263-1270.	2.5	25
6	A photochemistry-based method for optimising greenhouse supplemental light intensity. <i>Biosystems Engineering</i> , 2019, 182, 123-137.	4.3	23
7	A reinforcement learning-based approach for modeling and coverage of an unknown field using a team of autonomous ground vehicles. <i>International Journal of Intelligent Systems</i> , 2021, 36, 1069-1084.	5.7	20
8	An LMI-based approach to distributed model predictive control design for spatially-interconnected systems. <i>Automatica</i> , 2018, 95, 481-487.	5.0	18
9	Coverage Control with Multiple Ground Robots for Precision Agriculture. <i>Mechanical Engineering</i> , 2018, 140, S4-S8.	0.1	17
10	Epistemic Uncertainty Quantification in State-Space LPV Model Identification Using Bayesian Neural Networks. , 2021, 5, 719-724.		16
11	Data-driven LPV model predictive control of a cold atmospheric plasma jet for biomaterials processing. <i>Control Engineering Practice</i> , 2021, 109, 104725.	5.5	16
12	Distributed observer-based cooperative control for output regulation in multi-agent linear parameter-varying systems. <i>IET Control Theory and Applications</i> , 2017, 11, 1394-1403.	2.1	15
13	Optimal lighting control in greenhouse by incorporating sunlight prediction. <i>Computers and Electronics in Agriculture</i> , 2021, 188, 106300.	7.7	15
14	Data-driven Modeling and Predictive Control of Maximum Pressure Rise Rate in RCCI Engines. , 2020, , .		11
15	A team-based approach for coverage control of moving sensor networks. <i>Automatica</i> , 2017, 81, 342-349.	5.0	9
16	Non-linear Droop Control of Parallel Split-phase Inverters for Residential Nanogrids. , 2019, , .		9
17	A Graph Theoretic-Based Approach for Deploying Heterogeneous Multi-agent Systems with Application in Precision Agriculture. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 101, 1.	3.4	9
18	Development and Implementation of an IoT-Enabled Optimal and Predictive Lighting Control Strategy in Greenhouses. <i>Plants</i> , 2021, 10, 2652.	3.5	9

#	ARTICLE	IF	CITATIONS
19	Coverage control of moving sensor networks with multiple regions of interest. , 2017, , .		8
20	Attack-Resilient Lateral Stability Control for Four-Wheel-Driven EVs Considering Changed Driver Behavior Under Cyber Threats. IEEE Transactions on Transportation Electrification, 2022, 8, 1362-1375.	7.8	8
21	Vector control optimization of DFIGs under unbalanced conditions. International Transactions on Electrical Energy Systems, 2018, 28, e2583.	1.9	7
22	A team-based deployment approach for heterogeneous mobile sensor networks. Automatica, 2019, 106, 327-338.	5.0	7
23	A Fixed-Switching-Frequency Sliding Mode Current Controller for Mutually Coupled Switched Reluctance Machines Using Asymmetric Bridge Converter. , 2019, , .		6
24	Input-output Data-driven Modeling and MIMO Predictive Control of an RCCI Engine Combustion. IFAC-PapersOnLine, 2021, 54, 406-411.	0.9	6
25	Linear Parameter-varying Approach for Modeling and Control of Rapid Thermal Processes. International Journal of Control, Automation and Systems, 2018, 16, 207-216.	2.7	5
26	Data-Driven Linear Parameter-Varying Model Identification Using Transfer Learning. , 2021, 5, 1579-1584.		5
27	Safe control of nonlinear systems in LPV framework using model-based reinforcement learning. International Journal of Control, 2023, 96, 1079-1090.	1.9	5
28	Finite State Markov Modeling of C-V2X Erasure Links For Performance and Stability Analysis of Platooning Applications. , 2022, , .		5
29	Model Reduction in Linear Parameter-Varying Models using Autoencoder Neural Networks. , 2018, , .		4
30	Attack-Resilient Lateral Stability Control for Autonomous In-Wheel-Motor-Driven Electric Vehicles. , 2021, , .		4
31	LPV modeling of nonlinear systems: A multiâ€path feedback linearization approach. International Journal of Robust and Nonlinear Control, 2021, 31, 9436-9465.	3.7	4
32	Optimum Energy Management of Islanded Nanogrids through Nonlinear Stochastic Dynamic Programming. , 2019, , .		3
33	Sliding Mode Current Control of Mutually Coupled Switched Reluctance Machines using a Three-phase Voltage Source Converter. , 2019, , .		3
34	Cooperative Output Regulation of Multiagent Linear Parameter-Varying Systems. Mathematical Problems in Engineering, 2017, 2017, 1-10.	1.1	2
35	Heterogeneity-Aware Graph Partitioning for Distributed Deployment of Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 2578-2588.	9.5	2
36	Agricultural Field Coverage Using Cooperating Unmanned Ground Vehicles. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Physics-guided and Neural Network Learning-based Sliding Mode Control. IFAC-PapersOnLine, 2021, 54, 705-710.	0.9	2
38	Multi-Agent Systems Coverage Control in Mixed-Dimensional and Hybrid Environments. IFAC-PapersOnLine, 2021, 54, 765-770.	0.9	2
39	Model-free Control Design Using Policy Gradient Reinforcement Learning in LPV Framework. , 2021, , .		2
40	Robust non-linear control design for systems governed by Burgers' equation subjected to parameter variation. IET Control Theory and Applications, 2018, 12, 582-592.	2.1	1
41	Team-based Coverage Control of Moving Sensor Networks with Uncertain Measurements. , 2018, , .		1
42	Energy Management Strategy for Dual-Motor-Based Electric Vehicle Powertrain Using Nonlinear Model Predictive Control. , 2021, , .		1
43	A weighted graph-based method for detection of data integrity attacks in electricity markets. IET Generation, Transmission and Distribution, 2021, 15, 2298-2308.	2.5	0
44	Data-driven Linear Parameter-varying Model Identification Using Transfer Learning. , 2021, , .		0