

Seshadhri Srinivasan

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

814
citations

686830

13
h-index

610482

24
g-index

89
all docs

89
docs citations

89
times ranked

848
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Predictive Control-Based Optimal Operations of District Heating System With Thermal Energy Storage and Flexible Loads. IEEE Transactions on Automation Science and Engineering, 2017, 14, 547-557.	3.4	110
2	An internet of things upgrade for smart and scalable heating, ventilation and air-conditioning control in commercial buildings. Applied Energy, 2019, 239, 408-424.	5.1	80
3	The Do-It-Yourself Artificial Pancreas: A Comprehensive Review. Diabetes Therapy, 2020, 11, 1217-1235.	1.2	58
4	An Automated Irrigation System for Smart Agriculture Using the Internet of Things. , 2018, , .		36
5	Design and verification of Cyber-Physical Systems using TrueTime, evolutionary optimization and UPPAAL. Microprocessors and Microsystems, 2016, 42, 37-48.	1.8	32
6	Learning-Based Hierarchical Distributed HVAC Scheduling With Operational Constraints. IEEE Transactions on Control Systems Technology, 2018, 26, 1892-1900.	3.2	32
7	Distributed Control of Multizone HVAC Systems Considering Indoor Air Quality. IEEE Transactions on Control Systems Technology, 2021, 29, 2586-2597.	3.2	27
8	A Semantic-Middleware-Supported Receding Horizon Optimal Power Flow in Energy Grids. IEEE Transactions on Industrial Informatics, 2018, 14, 35-46.	7.2	24
9	Explainable AI for Chiller Fault-Detection Systems: Gaining Human Trust. Computer, 2021, 54, 60-68.	1.2	19
10	A model-based approach for design and verification of Industrial Internet of Things. Future Generation Computer Systems, 2019, 95, 354-363.	4.9	18
11	Learning based personalized energy management systems for residential buildings. Energy and Buildings, 2016, 127, 953-968.	3.1	17
12	Demand Side Management for heating controls in Microgrids. IFAC-PapersOnLine, 2016, 49, 611-616.	0.5	17
13	Adaptive LQR controller for Networked Control Systems subjected to random communication delays. , 2013, , .		15
14	Structural analysis based sensor measurement fault diagnosis in cement industries. Control Engineering Practice, 2017, 64, 148-159.	3.2	14
15	A Cyber-Physical Systems Approach for Implementing the Receding Horizon Optimal Power Flow in Smart Grids. IEEE Transactions on Sustainable Computing, 2018, 3, 98-111.	2.2	14
16	Advanced driver assistance system for AHS over communication links with random packet dropouts. Mechanical Systems and Signal Processing, 2014, 49, 53-62.	4.4	12
17	Optimal operation of a district heating power plant with thermal energy storage. , 2016, , .		12
18	A Scenario-Based Branch-and-Bound Approach for MES Scheduling in Urban Buildings. IEEE Transactions on Industrial Informatics, 2020, 16, 7510-7520.	7.2	12

#	ARTICLE	IF	CITATIONS
19	Recursive approximation of complex behaviours with IoT-data imperfections. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 656-667.	8.5	11
20	MILP based autonomous vehicle path-planning controller for unknown environments with dynamic obstacles. International Journal of Heavy Vehicle Systems, 2016, 23, 350.	0.1	10
21	Type-2 fuzzy ontology-based multi-agents system for wireless sensor network. , 2017, , .		10
22	Building Occupancy Detection from Carbon-dioxide and Motion Sensors. , 2018, , .		10
23	Adaptive regulator for networked control systems: MATLAB and true time implementation. , 2013, , .		9
24	The application of the data mining in the integration of RES in the smart grid: Consumption and generation forecast in the I3RES project. , 2015, , .		9
25	Model checking response times in Networked Automation Systems using jitter bounds. Computers in Industry, 2015, 74, 186-200.	5.7	9
26	Hybrid Ventilation System and Soft-Sensors for Maintaining Indoor Air Quality and Thermal Comfort in Buildings. Atmosphere, 2020, 11, 110.	1.0	9
27	A layered architecture for control functionality implementation in smart grids. , 2013, , .		8
28	Integration of IEC 61850 and OPC UA for Smart Grid automation. , 2013, , .		8
29	Extended Kalman Filter Based Path-Planning Algorithm for Autonomous Vehicles with I2V Communication. IFAC-PapersOnLine, 2016, 49, 652-657.	0.5	8
30	Optimal fractional controller design methodology for electric drive train. International Journal of Electric and Hybrid Vehicles, 2016, 8, 335.	0.2	8
31	Predictive smart thermostat controller for heating, ventilation, and air-conditioning systems. Proceedings of the Estonian Academy of Sciences, 2018, 67, 291.	0.9	8
32	A receding horizon approach for the power flow management with renewable energy and energ storage systems. , 2015, , .		7
33	Smart Artificial Pancreas with Diet Recommender System for Elderly Diabetes. IFAC-PapersOnLine, 2020, 53, 16366-16371.	0.5	7
34	Genetic algorithm-based interval type-2 fuzzy model identification for people with type-1 diabetes. , 2017, , .		6
35	Formal Methods Based Security for Cloud-based Manufacturing Cyber Physical System. IFAC-PapersOnLine, 2019, 52, 1198-1203.	0.5	6
36	Stochastic Wheel-Slip Compensation Based Robot Localization and Mapping. Advances in Electrical and Computer Engineering, 2016, 16, 25-32.	0.5	6

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37	Consensus algorithm for robotic agents over packet dropping links. , 2010, , .		5
38	On exact feedback linearization of HVAC systems. , 2013, , .		5
39	Verifying Response Times in Networked Automation Systems Using Jitter Bounds. , 2014, , .		5
40	Modelling time-varying delays in networked automation systems with heterogeneous networks using machine learning techniques. , 2015, , .		5
41	Model-based maintenance scheduling in flexible modular automation systems. , 2017, , .		5
42	An Internet of Things compliant model identification methodology for smart buildings. , 2017, , .		5
43	Recursive Estimation of Battery Pack Parameters in Electric Vehicles. , 2018, , .		5
44	Demand Response Program for Shiftable Modes in Variable Tariff Zones of an Utility. , 2020, , .		5
45	Teaching Industrial Internet-of-Things-Based Model-Predictive Controller. IEEE Transactions on Education, 2021, 64, 267-275.	2.0	5
46	Tuning of Multivariable Decentralized PID Controller Using State Transition Algorithm. Studies in Informatics and Control, 2015, 24, .	0.6	5
47	On simulating processor schedules and network protocols within CPS using TrueTime. , 2015, , .		4
48	Estimating Random Delays in Modbus Over TCP/IP Network Using Experiments and General Linear Regression Neural Networks with Genetic Algorithm Smoothing. Advances in Intelligent Systems and Computing, 2016, , 615-625.	0.5	4
49	Provably Correct Configuration Management of Precision Feeding in Agriculture4.0. , 2019, , .		4
50	Wi-Fi based Occupancy Detection in a Building with Indoor Localization. , 2019, , .		4
51	LASSO based building thermal model for heating, ventilation and air-conditioning control. , 2015, , .		3
52	An Impact of Different Uncertainties and Attacks on the Performance Metrics and Stability of Industrial Control System. Lecture Notes in Networks and Systems, 2021, , 557-574.	0.5	3
53	Optimal Access Class Barring in Machine to Machine Systems with Random Activation Time. Informatica, 2017, 28, 285-302.	1.5	3
54	IoT-Based Personalized Health Care for Elderly Diabetic Patients. Lecture Notes in Networks and Systems, 2022, , 427-435.	0.5	3

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55	Adaptive Controller for Networked Control Systems Subjected to Random Communication Delays. Advances in Intelligent Systems and Computing, 2018, , 78-94.	0.5	3
56	Verification of design contracts for cyber-physical system design using evolutionary optimization. , 2015, , .		2
57	Map spread factor based confidence weighted average technique for adaptive SLAM with unknown sensor model and noise covariance. , 2016, , .		2
58	Lagrangian-based state transition algorithm for tuning multivariable decentralised controller. International Journal of Advanced Intelligence Paradigms, 2016, 8, 303.	0.2	2
59	Comparison of subspace and prediction error methods of system identification for cement grinding process. International Journal of Simulation and Process Modelling, 2016, 11, 97.	0.1	2
60	Retransmission scheme for intra-session linear network coding in wireless networks. International Journal of Advanced Intelligence Paradigms, 2017, 9, 326.	0.2	2
61	Generalized Predictive Controller for Ball Mill Grinding Circuit in the Presence of Feed-grindability Variations. Studies in Informatics and Control, 2016, 25, .	0.6	2
62	Real-time extremum seeking controller for brushless DC hub motors in electric vehicles. IET Electric Power Applications, 2020, 14, 2438-2449.	1.1	2
63	Optimization of energy exchanges in utility grids with applications to residential, industrial and tertiary cases. , 2015, , .		1
64	Enabling technologies for Enterprise Wide Optimization. , 2015, , .		1
65	Asset management in smart grids using improved Dissolved Gas Analysis. , 2015, , .		1
66	Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 223-233.	0.6	1
67	Model based testing of distributed time critical systems. , 2017, , .		1
68	Data driven models for cement grinding circuit. International Journal of Advanced Intelligence Paradigms, 2017, 9, 414.	0.2	1
69	Path-planning in autonomous electric vehicle using nonlinear state estimation and behaviour-based controllers. International Journal of Vehicle Systems Modelling and Testing, 2017, 12, 304.	0.1	1
70	A Hybrid Cross-Entropy Guided Genetic Algorithm for Scheduling Multi-Energy Systems. , 2018, , .		1
71	Adaptive Disturbance Observers for Building Thermal Model. , 2020, , 185-195.		1
72	Design of PSO-Based PI Controller for Tension Control in Web Transport Systems. Advances in Intelligent Systems and Computing, 2016, , 509-516.	0.5	1

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73	Epidemic Algorithm Based Optimal Power Flow in Electric Grids. Advances in Intelligent Systems and Computing, 2018, , 60-69.	0.5	1
74	A Parameter Tuning Method for Fractional Order PD Controllers. , 2020, , .		1
75	Multimedia Data-Based Artificial Pancreas for Type 2 Diabetes. IEEE MultiMedia, 2022, 29, 18-27.	1.5	1
76	Averting and Mitigating the Effects of Uncertainties with Optimal Control in Industrial Networked Control System. , 2021, , .		1
77	State Transition Algorithm (STA) based tuning of integer and fractional-order PID controller for benchmark system. , 2015, , .		0
78	Ensemble wavelet learners for demand forecasting in energy grids. , 2017, , .		0
79	Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 253-264.	0.6	0
80	A Communication Viewpoints of Distributed Energy Resource. Advances in Intelligent Systems and Computing, 2018, , 107-117.	0.5	0
81	Recursive Parsimonious System Identification Algorithm for Dynamical Systems. , 2018, , .		0
82	Governing Dynamics of Crude Oil and LNG Prices. , 2018, , .		0
83	Component Modeling of ROME. , 2019, , .		0
84	Synthesize the Effect of Intrusion and Imperfection on Networked-Connected Control System with Optimal Control Strategy. , 2021, , .		0