

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 | IoT-Based Personalized Health Care for Elderly Diabetic Patients. Lecture Notes in Networks and Systems, 2022, , 427-435. | 0.5 | 3 |
| 2 | Multimedia Data-Based Artificial Pancreas for Type 2 Diabetes. IEEE MultiMedia, 2022, 29, 18-27. | 1.5 | 1 |
| 3 | Teaching Industrial Internet-of-Things-Based Model-Predictive Controller. IEEE Transactions on Education, 2021, 64, 267-275. | 2.0 | 5 |
| 4 | Distributed Control of Multizone HVAC Systems Considering Indoor Air Quality. IEEE Transactions on Control Systems Technology, 2021, 29, 2586-2597. | 3.2 | 27 |
| 5 | 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 |
| 6 | Explainable AI for Chiller Fault-Detection Systems: Gaining Human Trust. Computer, 2021, 54, 60-68. | 1.2 | 19 |
| 7 | Synthesize the Effect of Intrusion and Imperfection on Networked-Connected Control System with Optimal Control Strategy. , 2021, , . | | 0 |
| 8 | Averting and Mitigating the Effects of Uncertainties with Optimal Control in Industrial Networked Control System. , 2021, , . | | 1 |
| 9 | Recursive approximation of complex behaviours with IoT-data imperfections. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 656-667. | 8.5 | 11 |
| 10 | 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 |
| 11 | Demand Response Program for Shiftable Modes in Variable Tariff Zones of an Utility. , 2020, , . | | 5 |
| 12 | Hybrid Ventilation System and Soft-Sensors for Maintaining Indoor Air Quality and Thermal Comfort in Buildings. Atmosphere, 2020, 11, 110. | 1.0 | 9 |
| 13 | The Do-It-Yourself Artificial Pancreas: A Comprehensive Review. Diabetes Therapy, 2020, 11, 1217-1235. | 1.2 | 58 |
| 14 | Adaptive Disturbance Observers for Building Thermal Model. , 2020, , 185-195. | | 1 |
| 15 | A Parameter Tuning Method for Fractional Order PD Controllers. , 2020, , . | | 1 |
| 16 | Smart Artificial Pancreas with Diet Recommender System for Elderly Diabetes. IFAC-PapersOnLine, 2020, 53, 16366-16371. | 0.5 | 7 |
| 17 | Real-time extremum seeking controller for brushless DC hub motors in electric vehicles. IET Electric Power Applications, 2020, 14, 2438-2449. | 1.1 | 2 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Provably Correct Configuration Management of Precision Feeding in Agriculture4.0. , 2019, , . | | 4 |
| 20 | Component Modeling of ROME. , 2019, , . | | 0 |
| 21 | Wi-Fi based Occupancy Detection in a Building with Indoor Localization. , 2019, , . | | 4 |
| 22 | Formal Methods Based Security for Cloud-based Manufacturing Cyber Physical System. IFAC-PapersOnLine, 2019, 52, 1198-1203. | 0.5 | 6 |
| 23 | A model-based approach for design and verification of Industrial Internet of Things. Future Generation Computer Systems, 2019, 95, 354-363. | 4.9 | 18 |
| 24 | A Semantic-Middleware-Supported Receding Horizon Optimal Power Flow in Energy Grids. IEEE Transactions on Industrial Informatics, 2018, 14, 35-46. | 7.2 | 24 |
| 25 | A Communication Viewpoints of Distributed Energy Resource. Advances in Intelligent Systems and Computing, 2018, , 107-117. | 0.5 | 0 |
| 26 | Learning-Based Hierarchical Distributed HVAC Scheduling With Operational Constraints. IEEE Transactions on Control Systems Technology, 2018, 26, 1892-1900. | 3.2 | 32 |
| 27 | 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 |
| 28 | Building Occupancy Detection from Carbon-dioxide and Motion Sensors. , 2018, , . | | 10 |
| 29 | A Hybrid Cross-Entropy Guided Genetic Algorithm for Scheduling Multi-Energy Systems. , 2018, , . | | 1 |
| 30 | Recursive Estimation of Battery Pack Parameters in Electric Vehicles. , 2018, , . | | 5 |
| 31 | Recursive Parsimonious System Identification Algorithm for Dynamical Systems. , 2018, , . | | 0 |
| 32 | An Automated Irrigation System for Smart Agriculture Using the Internet of Things. , 2018, , . | | 36 |
| 33 | Predictive smart thermostat controller for heating, ventilation, and air-conditioning systems. Proceedings of the Estonian Academy of Sciences, 2018, 67, 291. | 0.9 | 8 |
| 34 | Governing Dynamics of Crude Oil and LNG Prices. , 2018, , . | | 0 |
| 35 | Epidemic Algorithm Based Optimal Power Flow in Electric Grids. Advances in Intelligent Systems and Computing, 2018, , 60-69. | 0.5 | 1 |
| 36 | Adaptive Controller for Networked Control Systems Subjected to Random Communication Delays. Advances in Intelligent Systems and Computing, 2018, , 78-94. | 0.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 223-233. | 0.6 | 1 |
| 38 | Structural analysis based sensor measurement fault diagnosis in cement industries. Control Engineering Practice, 2017, 64, 148-159. | 3.2 | 14 |
| 39 | Genetic algorithm-based interval type-2 fuzzy model identification for people with type-1 diabetes. , 2017, , . | | 6 |
| 40 | 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 |
| 41 | Ensemble wavelet learners for demand forecasting in energy grids. , 2017, , . | | 0 |
| 42 | Model based testing of distributed time critical systems. , 2017, , . | | 1 |
| 43 | Model-based maintenance scheduling in flexible modular automation systems. , 2017, , . | | 5 |
| 44 | Type-2 fuzzy ontology-based multi-agents system for wireless sensor network. , 2017, , . | | 10 |
| 45 | An Internet of Things compliant model identification methodology for smart buildings. , 2017, , . | | 5 |
| 46 | Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 253-264. | 0.6 | 0 |
| 47 | Data driven models for cement grinding circuit. International Journal of Advanced Intelligence Paradigms, 2017, 9, 414. | 0.2 | 1 |
| 48 | 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 |
| 49 | Retransmission scheme for intra-session linear network coding in wireless networks. International Journal of Advanced Intelligence Paradigms, 2017, 9, 326. | 0.2 | 2 |
| 50 | Optimal Access Class Barring in Machine to Machine Systems with Random Activation Time. Informatica, 2017, 28, 285-302. | 1.5 | 3 |
| 51 | Learning based personalized energy management systems for residential buildings. Energy and Buildings, 2016, 127, 953-968. | 3.1 | 17 |
| 52 | Map spread factor based confidence weighted average technique for adaptive SLAM with unknown sensor model and noise covariance. , 2016, , . | | 2 |
| 53 | Demand Side Management for heating controls in Microgrids. IFAC-PapersOnLine, 2016, 49, 611-616. | 0.5 | 17 |
| 54 | Extended Kalman Filter Based Path-Planning Algorithm for Autonomous Vehicles with I2V Communication. IFAC-PapersOnLine, 2016, 49, 652-657. | 0.5 | 8 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Optimal operation of a district heating power plant with thermal energy storage. , 2016, , . | | 12 |
| 57 | Lagrangian-based state transition algorithm for tuning multivariable decentralised controller. International Journal of Advanced Intelligence Paradigms, 2016, 8, 303. | 0.2 | 2 |
| 58 | 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 |
| 59 | Optimal fractional controller design methodology for electric drive train. International Journal of Electric and Hybrid Vehicles, 2016, 8, 335. | 0.2 | 8 |
| 60 | Design and verification of Cyber-Physical Systems using TrueTime, evolutionary optimization and UPPAAL. Microprocessors and Microsystems, 2016, 42, 37-48. | 1.8 | 32 |
| 61 | 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 |
| 62 | 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 |
| 63 | Stochastic Wheel-Slip Compensation Based Robot Localization and Mapping. Advances in Electrical and Computer Engineering, 2016, 16, 25-32. | 0.5 | 6 |
| 64 | 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 |
| 65 | On simulating processor schedules and network protocols within CPS using TrueTime. , 2015, , . | | 4 |
| 66 | State Transition Algorithm (STA) based tuning of integer and fractional-order PID controller for benchmark system. , 2015, , . | | 0 |
| 67 | Optimization of energy exchanges in utility grids with applications to residential, industrial and tertiary cases. , 2015, , . | | 1 |
| 68 | A receding horizon approach for the power flow management with renewable energy and energ storage systems. , 2015, , . | | 7 |
| 69 | Enabling technologies for Enterprise Wide Optimization. , 2015, , . | | 1 |
| 70 | Modelling time-varying delays in networked automation systems with heterogeneous networks using machine learning techniques. , 2015, , . | | 5 |
| 71 | Verification of design contracts for cyber-physical system design using evolutionary optimization. , 2015, , . | | 2 |
| 72 | LASSO based building thermal model for heating, ventilation and air-conditioning control. , 2015, , . | | 3 |

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|----|--|-----|-----------|
| 73 | Asset management in smart grids using improved Dissolved Gas Analysis. , 2015, , . | | 1 |
| 74 | 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 |
| 75 | Model checking response times in Networked Automation Systems using jitter bounds. Computers in Industry, 2015, 74, 186-200. | 5.7 | 9 |
| 76 | Tuning of Multivariable Decentralized PID Controller Using State Transition Algorithm. Studies in Informatics and Control, 2015, 24, . | 0.6 | 5 |
| 77 | Verifying Response Times in Networked Automation Systems Using Jitter Bounds. , 2014, , . | | 5 |
| 78 | 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 |
| 79 | A layered architecture for control functionality implementation in smart grids. , 2013, , . | | 8 |
| 80 | On exact feedback linearization of HVAC systems. , 2013, , . | | 5 |
| 81 | Adaptive regulator for networked control systems: MATLAB and true time implementation. , 2013, , . | | 9 |
| 82 | Adaptive LQR controller for Networked Control Systems subjected to random communication delays. , 2013, , . | | 15 |
| 83 | Integration of IEC 61850 and OPC UA for Smart Grid automation. , 2013, , . | | 8 |
| 84 | Consensus algorithm for robotic agents over packet dropping links. , 2010, , . | | 5 |