

Zhiwu Huang

List of Publications by Year in descending order

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962
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times ranked

789
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | An Active Mobile Charging and Data Collection Scheme for Clustered Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5100-5113. | 6.3 | 48 |
| 2 | A Cooperative Charging Protocol for Onboard Supercapacitors of Catenary-Free Trams. IEEE Transactions on Control Systems Technology, 2018, 26, 1219-1232. | 5.2 | 43 |
| 3 | Adaptive power allocation using artificial potential field with compensator for hybrid energy storage systems in electric vehicles. Applied Energy, 2020, 257, 113983. | 10.1 | 42 |
| 4 | A rapid cell voltage balancing scheme for supercapacitor based energy storage systems for urban rail vehicles. Electric Power Systems Research, 2017, 142, 329-340. | 3.6 | 37 |
| 5 | Remaining Useful Life Estimation Using CNN-XGB With Extended Time Window. IEEE Access, 2019, 7, 154386-154397. | 4.2 | 35 |
| 6 | Stationary Charging Station Design for Sustainable Urban Rail Systems: A Case Study at Zhuzhou Electric Locomotive Co., China. Sustainability, 2015, 7, 465-481. | 3.2 | 30 |
| 7 | A Light Gradient Boosting Machine for Remaining Useful Life Estimation of Aircraft Engines. , 2018, , . | | 30 |
| 8 | Data-Driven Distributed Coordinated Control for Cloud-Based Model-Free Multiagent Systems With Communication Constraints. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3187-3198. | 5.4 | 27 |
| 9 | Cooperative CCâ€“CV Charging of Supercapacitors Using Multicharger Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 10497-10508. | 7.9 | 25 |
| 10 | Adaptive Split-Frequency Quantitative Power Allocation for Hybrid Energy Storage Systems. IEEE Transactions on Transportation Electrification, 2021, 7, 2306-2317. | 7.8 | 25 |
| 11 | A Learning-Based Data Placement Framework for Low Latency in Data Center Networks. IEEE Transactions on Cloud Computing, 2022, 10, 146-157. | 4.4 | 23 |
| 12 | A Data-driven Approach for Remaining Useful Life Prediction of Aircraft Engines. , 2018, , . | | 22 |
| 13 | A Predictive Set-Point Modulation Energy Management Strategy for Hybrid Energy Storage Systems. IEEE Transactions on Industry Applications, 2019, 55, 6266-6277. | 4.9 | 22 |
| 14 | Adaptive Model Predictive Control for Cruise Control of High-Speed Trains with Time-Varying Parameters. Journal of Advanced Transportation, 2019, 2019, 1-11. | 1.7 | 21 |
| 15 | A Real-Time Layer-Adaptive Wavelet Transform Energy Distribution Strategy in a Hybrid Energy Storage System of EVs. Energies, 2019, 12, 440. | 3.1 | 21 |
| 16 | Scalable and Adaptive Data Replica Placement for Geo-Distributed Cloud Storages. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1575-1587. | 5.6 | 20 |
| 17 | Distributed Group Coordination of Multiagent Systems in Cloud Computing Systems Using a Model-Free Adaptive Predictive Control Strategy. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3461-3473. | 11.3 | 19 |
| 18 | Distributed Control for State-of-Energy Balancing of Supercapacitor Modules in Light Rail Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 4447-4457. | 6.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Sizing optimization research considering mass effect of hybrid energy storage system in electric vehicles. Journal of Energy Storage, 2022, 48, 103892. | 8.1 | 18 |
| 20 | Synchronized Cell-Balancing Charging of Supercapacitors: A Consensus-Based Approach. IEEE Transactions on Industrial Electronics, 2018, 65, 8030-8040. | 7.9 | 16 |
| 21 | A Data-Driven Method with Feature Enhancement and Adaptive Optimization for Lithium-Ion Battery Remaining Useful Life Prediction. Energies, 2020, 13, 752. | 3.1 | 16 |
| 22 | A combinatorial double auction based resource allocation mechanism with multiple rounds for geo-distributed data centers. , 2016, , . | | 15 |
| 23 | SoH-Aware Charging of Supercapacitors With Energy Efficiency Maximization. IEEE Transactions on Energy Conversion, 2018, 33, 1766-1775. | 5.2 | 14 |
| 24 | Using blockchain to enhance the security of fog-assisted crowdsensing systems. , 2019, , . | | 14 |
| 25 | RLCP: A Reinforcement Learning Method for Health Stage Division Using Change Points. , 2018, , . | | 13 |
| 26 | Data-Driven predictive control for networked nonlinear multi-agent systems consensus tracking via cloud computing. IET Control Theory and Applications, 2019, 13, 683-692. | 2.1 | 13 |
| 27 | A Generalized Extended State Observer for Supercapacitor State of Energy Estimation With Online Identified Model. IEEE Access, 2018, 6, 27706-27716. | 4.2 | 12 |
| 28 | An Optimal Stacking Ensemble for Remaining Useful Life Estimation of Systems Under Multi-Operating Conditions. IEEE Access, 2020, 8, 31854-31868. | 4.2 | 12 |
| 29 | A Newton-Based Extremum Seeking MPPT Method for Photovoltaic Systems with Stochastic Perturbations. International Journal of Photoenergy, 2014, 2014, 1-13. | 2.5 | 11 |
| 30 | Dynamic resource reservation via broker federation in cloud service: A fine-grained heuristic-based approach. , 2014, , . | | 11 |
| 31 | Data-Driven Koopman Model Predictive Control for Optimal Operation of High-Speed Trains. IEEE Access, 2021, 9, 82233-82248. | 4.2 | 11 |
| 32 | A Temperature-Suppression Charging Strategy for Supercapacitor Stack With Lifetime Maximization. IEEE Transactions on Industry Applications, 2019, 55, 6173-6183. | 4.9 | 10 |
| 33 | A predictive control method to improve pressure tracking precision and reduce valve switching for pneumatic brake systems. IET Control Theory and Applications, 2021, 15, 1389-1403. | 2.1 | 10 |
| 34 | A Novel Energy-Efficient Routing Algorithm in Multi-sink Wireless Sensor Networks. , 2011, , . | | 9 |
| 35 | Flocking of Mobile Agents Using a New Interaction Model: A Cyber-Physical Perspective. IEEE Access, 2017, 5, 2665-2675. | 4.2 | 9 |
| 36 | Sliding mode control for urban railway anti-slip system based on optimal slip ratio estimation with forgetting factor recursive least-squares. , 2017, , . | | 9 |

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| 37 | Optimal Operation of High-Speed Trains Using Hybrid Model Predictive Control. Journal of Advanced Transportation, 2018, 2018, 1-16. | 1.7 | 9 |
| 38 | Distributed Voltage Equalization Design for Supercapacitors Using State Observer. IEEE Transactions on Industry Applications, 2019, 55, 620-630. | 4.9 | 9 |
| 39 | Enhanced Sliding Mode Control and Online Estimation of Optimal Slip Ratio for Railway Vehicle Braking Systems. International Journal of Precision Engineering and Manufacturing, 2018, 19, 655-664. | 2.2 | 8 |
| 40 | Distributed cooperative tracking control for heavy haul trains with event-triggered strategy. , 2016, , . | | 7 |
| 41 | A Remaining Useful Life Prediction Model Based on Hybrid Long-Short Sequences for Engines. , 2018, , . | | 7 |
| 42 | An Aging-Aware SOC Estimation Method for Lithium-Ion Batteries using XGBoost Algorithm. , 2019, , . | | 7 |
| 43 | Object recognition and localization based on kinect camera in complex environment. , 2013, , . | | 6 |
| 44 | Flocking control for multi-agent systems with communication optimization. , 2013, , . | | 6 |
| 45 | A generalized extended state observer for supercapacitor state of charge estimation under disturbances. , 2017, , . | | 6 |
| 46 | Regenerative Braking Control Strategy of Electric Vehicle Based on Composite Power Supply. , 2018, , . | | 6 |
| 47 | Ensemble Strategy for Hard Classifying Samples in Class-Imbalanced Data Set. , 2018, , . | | 6 |
| 48 | An Instance Reservation Framework for Cost Effective Services in Geo-Distributed Data Centers. IEEE Transactions on Services Computing, 2021, 14, 356-370. | 4.6 | 6 |
| 49 | A Combinatorial Optimization for Energy-Efficient Mobile Cloud Offloading over Cellular Networks. , 2016, , . | | 5 |
| 50 | Sliding model control based on estimation of optimal slip ratio for railway wheel slide protection using extremum seeking. , 2016, , . | | 5 |
| 51 | A distributed ESO based cooperative current-sharing strategy for parallel charging systems under disturbances. , 2016, , . | | 5 |
| 52 | An Energy-Based Nonlinear Pressure Observer for Fast and Precise Braking Force Control of the ECP Brake. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1437-1445. | 2.2 | 5 |
| 53 | Energy Sharing of Zero-Energy Buildings: A Consensus-Based Approach. IEEE Access, 2019, 7, 62172-62183. | 4.2 | 5 |
| 54 | A Novel Method for Lithium-Ion Battery Remaining Useful Life Prediction Using Time Window and Gradient Boosting Decision Trees. , 2019, , . | | 5 |

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| 55 | A LiFePO ₄ battery management system for heavy-haul train electrically controlled pneumatic brake system application. , 2015, , . | | 4 |
| 56 | A Hybrid Particle Swarm Ant Colony Based Resource Reservation for Geo-Distributed Cloud Service. , 2016, , . | | 4 |
| 57 | A cooperative charging strategy for onboard supercapacitors of catenary-free trams. , 2016, , . | | 4 |
| 58 | A new state of charge estimation for lithium-ion battery based on sliding-mode observer and battery status. , 2016, , . | | 4 |
| 59 | An adaptive energy allocation strategy for battery/supercapacitor hybrid energy storage system. , 2017, , . | | 4 |
| 60 | A novel estimator for adhesion force of railway vehicles braking systems and reference speed calculation. , 2017, , . | | 4 |
| 61 | A parameter adaptive data-driven approach for remaining useful life prediction of solenoid valves. , 2019, , . | | 4 |
| 62 | Pinning-Based Switching Control of Cyber-Physical Supercapacitor Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2020, 28, 1520-1533. | 5.2 | 4 |
| 63 | Observer-Driven Charging of Supercapacitors. IEEE Transactions on Industrial Informatics, 2020, 16, 3439-3450. | 11.3 | 4 |
| 64 | A Hybrid Degradation Modeling and Prognostic Method for the Multi-Modal System. Applied Sciences (Switzerland), 2020, 10, 1378. | 2.5 | 4 |
| 65 | A Novel Stator Resistance Identification for Speed Sensorless Induction Motor Drives Using Observer. , 2006, , . | | 3 |
| 66 | Locomotive Brake Control Method Based on T-S Fuzzy Modeling Predictive Control. , 2008, , . | | 3 |
| 67 | Actuator fault detection based on robust adaptive observer for CCBII Braking System. , 2014, , . | | 3 |
| 68 | An on-line fast model predictive control of highpower ultracapacitors charging current for renewable energy urban rail vehicle. , 2014, , . | | 3 |
| 69 | An adaptive parallel charging system for energy-storage urban rails. , 2015, , . | | 3 |
| 70 | Low-power Wireless Sensor Network protocol of Mobile Health based on IPv6. , 2016, , . | | 3 |
| 71 | An energy-based nonlinear pressure observer for electronically controlled pneumatic brake fault diagnosis. , 2017, , . | | 3 |
| 72 | Development of A Customizable Real-time Monitoring System for Networked Control Systems. , 2018, , . | | 3 |

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| 73 | An Efficient Reference Modulation Based Control Strategy for Active Hybrid Energy Management of EVs. , 2018, , . | | 3 |
| 74 | Consensus-Based Cell Balancing of Reconfigurable Supercapacitors. IEEE Transactions on Industry Applications, 2020, , 1-1. | 4.9 | 3 |
| 75 | Cooperative Charging of Supercapacitor Trams with Current Overshoot Suppression. IEEE Transactions on Industry Applications, 2020, , 1-1. | 4.9 | 3 |
| 76 | An Online Super-Twisting Sliding Mode Anti-Slip Control Strategy. Energies, 2020, 13, 1823. | 3.1 | 3 |
| 77 | Optimal Filter-Based Energy Management for Hybrid Energy Storage Systems with Energy Consumption Minimization. , 2020, , . | | 3 |
| 78 | A False Data Injection Attack Detection Method for Cooperative Charging Systems. IEEE Transactions on Industry Applications, 2022, 58, 3946-3956. | 4.9 | 3 |
| 79 | A Constant Gain Adaptive Observer for Speed and Resistances Identification. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , . | 0.0 | 2 |
| 80 | A Multi-task Real-Time Scheduling Algorithm Based on Dynamic Weight Compensation and Adaptive Task Jumping. , 2009, , . | | 2 |
| 81 | An Online Distributed Game Optimal Control for Heavy Haul Trains with Limited Communication. Mathematical Problems in Engineering, 2015, 2015, 1-9. | 1.1 | 2 |
| 82 | An extremum seeking based control strategy for pantograph-catenary contact force of high-speed trains. , 2015, , . | | 2 |
| 83 | Energy efficient video streaming over wireless networks with mobile-to-mobile cooperation. , 2015, , . | | 2 |
| 84 | Coordinated control for multi-agent systems based on networked predictive control schemes. , 2016, , . | | 2 |
| 85 | Optimal operation of high-speed train using hybrid model predictive control. , 2017, , . | | 2 |
| 86 | Cooperative Neural Fitted Learning for Distributed Energy Management in Microgrids via Wireless Networks. , 2017, , . | | 2 |
| 87 | A Current Controller based on SPAACE for Parallel Charging Systems of Energy-Storage Urban Rails. , 2018, , . | | 2 |
| 88 | A Cooperative Cell Balancing Approach for Reconfigurable Supercapacitor Energy Storage Systems. , 2018, , . | | 2 |
| 89 | Adaptive Precision Automatic Train Stop Control based on Pneumatic Brake Systems. , 2019, , . | | 2 |
| 90 | Lithium-Ion Battery SoC Equilibrium: An Artificial Potential Field-Based Method. Energies, 2020, 13, 5691. | 3.1 | 2 |

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| 91 | Decentralized control of heavy haul trains with input constraints and communication delays. , 2012, , . | | 1 |
| 92 | Multiple incipient faults prognosis for CCBII braking system. , 2014, , . | | 1 |
| 93 | Periodic Event-Triggered Condition Design for the Consensus of Multiagent Systems with Communication Delays. Mathematical Problems in Engineering, 2016, 2016, 1-9. | 1.1 | 1 |
| 94 | A power bond graph based diagnostic algorithm for CCBII brake. , 2016, , . | | 1 |
| 95 | A coalitional game based mechanism for resource sharing in geo-distributed mobile cloud computing. , 2017, , . | | 1 |
| 96 | A Temperature-Suppression Charging Strategy for Supercapacitors of Portable Applications. , 2018, , . | | 1 |
| 97 | Fault Diagnosis of Direct Electro-pneumatic Brake Based on Model and Data-driven. , 2018, , . | | 1 |
| 98 | Railway Optimal Slip Ratio Control Using Extremum Seeking Algorithm With Adaptive Amplitude Tuning. , 2018, , . | | 1 |
| 99 | An Online Parameter Identification for Ultracapacitor Model by Using Recursive Least Square with Multi-forgetting Factor. , 2018, , . | | 1 |
| 100 | Cooperative Cell Balancing of Supercapacitors with Adaptive Observers. , 2020, , . | | 1 |
| 101 | A Hierarchical State of Charge Estimation Method for Lithium-ion Batteries via XGBoost and Kalman Filter. , 2020, , . | | 1 |
| 102 | Detection of False-Data Injection Attacks in Supercapacitor Charging Systems. , 2020, , . | | 1 |
| 103 | PID control and optimum of the third-order monotone nondecreasing and nonovershooting. , 0, , . | | 0 |
| 104 | On the Stability and Stabilization of Linear Neutral Time-delay Systems. , 0, , . | | 0 |
| 105 | Robust H_{∞} Control of Linear Uncertain Neutral Type Systems with Time-Varying Delay. , 0, , . | | 0 |
| 106 | Based on the betterment expert control of the brake cylinder pressure control method. , 2008, , . | | 0 |
| 107 | Research of State Monitor System for CCBII Brake Based on Multi-hierarchy Fuzzy Evaluation. , 2009, , . | | 0 |
| 108 | Modelling and model optimization of locomotive brake control system. , 2011, , . | | 0 |

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| 109 | An adaptive charging control strategy for ultracapacitor light rail vehicles. , 2016, , . | | 0 |
| 110 | A hybrid model predictive charging control strategy for ultracapacitors of urban rail vehicles. , 2016, , . | | 0 |
| 111 | A high-efficiency synchronous rectifier for supercapacitor voltage equalizer in urban rail. , 2016, , . | | 0 |
| 112 | An EMPC based active control for pneumatic pantograph system using ON/OFF valves. , 2017, , . | | 0 |
| 113 | Mathematical modeling of electrical controlled pneumatic brake. , 2017, , . | | 0 |
| 114 | Emergency data gathering mechanism for sustainable wireless sensor networks. , 2017, , . | | 0 |
| 115 | A Fast servoing strategy for nonholonomic mobile robot with RGB-D sensing. , 2017, , . | | 0 |
| 116 | A Practical and Efficient Nonlinear Observer for Supercapacitor Energy Identification. , 2018, , . | | 0 |
| 117 | A Novel Charging Strategy to Reduce Voltage Variation for Reconfigurable Energy Storage System of Modern Tram. , 2018, , . | | 0 |
| 118 | An Adaptive Current Sharing Strategy for Energy Storage Urban Rails Using Extremum Seeking. , 2018, , . | | 0 |
| 119 | Optimal ultracapacitor permutation and combination for voltage equalization using Rejected Monte Carlo algorithm. , 2018, , . | | 0 |
| 120 | Voltage Equalization Scheme for Onboard Supercapacitor Based on Sliding Mode Observer. , 2018, , . | | 0 |
| 121 | Robust Fault Diagnosis for DK-2 Brake Based on Both Data-driven and Model. , 2018, , . | | 0 |
| 122 | Optimal Charging of Supercapacitors with Limited Charging Time. , 2021, , . | | 0 |
| 123 | A fast adaptive bus voltage regulation strategy for supercapacitor energy storage systems. IET Power Electronics, 0, , . | 2.1 | 0 |