

Jing Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,757
citations

22
h-index

38
g-index

123
ext. papers

2,305
ext. citations

5
avg, IF

5.51
L-index

#	Paper	IF	Citations
101	An Active Perception Framework for Autonomous Underwater Vehicle Navigation Under Sensor Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-16	4.8	2
100	Energy-Optimal Control for Autonomous Underwater Vehicles Using Economic Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-14	4.8	2
99	Robust State of Health estimation of lithium-ion batteries using convolutional neural network and random forest. <i>Journal of Energy Storage</i> , 2022 , 48, 103857	7.8	5
98	A Two-Layer Real-Time Optimization Control Strategy for Integrated Battery Thermal Management and HVAC System in Connected and Automated HEVs. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6567-6576	6.8	2
97	Hierarchical MPC for Robust Eco-Cooling of Connected and Automated Vehicles and Its Application to Electric Vehicle Battery Thermal Management. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 316-328	4.8	21
96	Control Strategy for Battery/Flywheel Hybrid Energy Storage in Electric Shipboard Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 1089-1099	11.9	18
95	A study of cell-to-cell variation of capacity in parallel-connected lithium-ion battery cells. <i>ETransportation</i> , 2021 , 7, 100091	12.7	10
94	Multihorizon Model Predictive Control: An Application to Integrated Power and Thermal Management of Connected Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	3
93	Simultaneous Identification and Control Using Active Signal Injection for Series Hybrid Electric Vehicles Based on Dynamic Programming. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 298-307	7.6	8
92	Eco-Cooling Control Strategy for Automotive Air-Conditioning System: Design and Experimental Validation. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 1-12	4.8	5
91	The sequential algorithm for combined state of charge and state of health estimation of lithium-ion battery based on active current injection. <i>Energy</i> , 2020 , 193, 116732	7.9	29
90	Simultaneous Identification and Control for Hybrid Energy Storage System Using Model Predictive Control and Active Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9768-9778	8.9	7
89	Long-Term Vehicle Speed Prediction via Historical Traffic Data Analysis for Improved Energy Efficiency of Connected Electric Vehicles. <i>Transportation Research Record</i> , 2020 , 2674, 17-29	1.7	7
88	Integrated Power and Thermal Management of Connected HEVs via Multi-Horizon MPC 2020 ,		5
87	Individual Cell Fault Detection for Parallel-Connected Battery Cells Based on the Statistical Model and Analysis 2020 ,		2
86	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4439-4447	7.2	20
85	Cabin and Battery Thermal Management of Connected and Automated HEVs for Improved Energy Efficiency Using Hierarchical Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1711-1726	4.8	35

84	Adaptive model predictive control for hybrid energy storage energy management in all-electric ship microgrids. <i>Energy Conversion and Management</i> , 2019 , 198, 111929	10.6	28
83	A data assimilation framework for data-driven flow models enabled by motion tomography. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 158-177	1.7	3
82	Eco-Trajectory Planning with Consideration of Queue along Congested Corridor for Hybrid Electric Vehicles. <i>Transportation Research Record</i> , 2019 , 2673, 277-286	1.7	22
81	LMI Stability-Constrained Identification for Composite Adaptive Internal Model Control. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 5039-5050	5.9	1
80	Parameter Identification and Maximum Power Estimation of Battery/Supercapacitor Hybrid Energy Storage System Based on CramerRao Bound Analysis. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4831-4843	7.2	42
79	Energy Management for Autonomous Underwater Vehicles using Economic Model Predictive Control 2019 ,		2
78	Combined Energy and Comfort Optimization of Air Conditioning System in Connected and Automated Vehicles 2019 ,		2
77	Thermal Responses of Connected HEVs Engine and Aftertreatment Systems to Eco-Driving 2019 ,		4
76	Integrated optimization of Power Split, Engine Thermal Management, and Cabin Heating for Hybrid Electric Vehicles 2019 ,		13
75	Sequential optimization of speed, thermal load, and power split in connected HEVs 2019 ,		21
74	Robust Hierarchical MPC for Handling Long Horizon Demand Forecast Uncertainty with Application to Automotive Thermal Management 2019 ,		2
73	MPC-based Precision Cooling Strategy (PCS) for Efficient Thermal Management of Automotive Air Conditioning System 2019 ,		2
72	Current Profile Optimization for Combined State of Charge and State of Health Estimation of Lithium Ion Battery Based on CramerRao Bound Analysis. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7067-7078	7.2	34
71	Improving Localization Accuracy in Connected Vehicle Networks Using RaoBlackwellized Particle Filters: Theory, Simulations, and Experiments. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 2255-2266	6.1	13
70	Control development and performance evaluation for battery/flywheel hybrid energy storage solutions to mitigate load fluctuations in all-electric ship propulsion systems. <i>Applied Energy</i> , 2018 , 212, 919-930	10.7	68
69	Adaptive model predictive control with propulsion load estimation and prediction for all-electric ship energy management. <i>Energy</i> , 2018 , 150, 877-889	7.9	40
68	The Impact of Road Configuration in V2V-Based Cooperative Localization: Mathematical Analysis and Real-World Evaluation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 3220-3229	6.1	4
67	Hierarchical Design of Connected Cruise Control in the Presence of Information Delays and Uncertain Vehicle Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 139-150	4.8	35

66	. <i>IEEE Journal of Oceanic Engineering</i> , 2018 , 43, 93-107	3.3	56
65	Predictive Second Order Sliding Control of Constrained Linear Systems with Application to Automotive Control Systems 2018 ,		1
64	A Real-Time Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles (CAHEVs) Based on Iterative Dynamic Programming. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8077-8084	6.8	36
63	Evaluation of the Energy Efficiency in a Mixed Traffic with Automated Vehicles and Human Controlled Vehicles 2018 ,		1
62	Two-Layer Model Predictive Battery Thermal and Energy Management Optimization for Connected and Automated Electric Vehicles 2018 ,		14
61	Real-Time Model Predictive Control for Energy Management in Autonomous Underwater Vehicle 2018 ,		2
60	Model Predictive Climate Control of Connected and Automated Vehicles for Improved Energy Efficiency 2018 ,		16
59	Zonotope-based set-membership parameter identification of linear systems with additive and multiplicative uncertainties: A new algorithm 2017 ,		4
58	Battery/flywheel Hybrid Energy Storage to mitigate load fluctuations in electric ship propulsion systems 2017 ,		4
57	Simultaneous Identification and Adaptive Torque Control of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1372-1383	4.8	13
56	Offline Identification of Induction Machine Parameters With Core Loss Estimation Using the Stator Current Locus. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 1549-1558	5.4	18
55	Integrated control of power generation, electric motor and hybrid energy storage for all-electric ships 2016 ,		10
54	Anti-windup controller design for singularly perturbed systems subject to actuator saturation. <i>IET Control Theory and Applications</i> , 2016 , 10, 469-476	2.5	19
53	Economic MPC with a contractive constraint for nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 4072-4087	3.6	19
52	Enhanced composite adaptive IMC for boost pressure control of a turbocharged gasoline engine 2016 ,		4
51	Generalized composite adaptive IMC: Design and analysis 2016 ,		1
50	Set-membership condition monitoring framework for dual fuel engines 2016 ,		8
49	Multiobjective economic MPC of constrained non-linear systems. <i>IET Control Theory and Applications</i> , 2016 , 10, 1487-1495	2.5	8

48	A Near-Optimal Power Management Strategy for Rapid Component Sizing of Multimode Power Split Hybrid Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 609-618	4.8	59
47	Real-Time Model Predictive Control for Shipboard Power Management Using the IPA-SQP Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2129-2143	4.8	50
46	Model Parametrization and Adaptation Based on the Invariance of Support Vectors With Applications to Battery State-of-Health Monitoring. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 3908-3917	6.8	33
45	Interaction analysis and integrated control of hybrid energy storage and generator control system for electric ship propulsion 2015 ,		12
44	Optimisation-based control for electrified vehicles: challenges and opportunities. <i>Journal of Control and Decision</i> , 2015 , 2, 46-63	0.9	11
43	Data-Driven Abnormal Condition Identification and Self-Healing Control System for Fused Magnesium Furnace. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 1703-1715	8.9	32
42	Composite Adaptive Internal Model Control and Its Application to Boost Pressure Control of a Turbocharged Gasoline Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2306-2315	4.8	24
41	Model Predictive Control for Power and Thermal Management of an Integrated Solid Oxide Fuel Cell and Turbocharger System. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 911-920	4.8	21
40	A tutorial overview of IPA-SQP approach for optimization of constrained nonlinear systems 2014 ,		6
39	A stator current locus approach to induction machine parameter estimation 2014 ,		2
38	Robust modular control system design using an inner-loop reference model and synthesis techniques. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1338-1359	3.6	
37	On-board state of health monitoring of lithium-ion batteries using incremental capacity analysis with support vector regression. <i>Journal of Power Sources</i> , 2013 , 235, 36-44	8.9	270
36	A near-optimal power management strategy for rapid component sizing of power split hybrid vehicles with multiple operating modes 2013 ,		2
35	Internal model control design for linear parameter varying systems 2013 ,		1
34	MPC for reducing energy storage requirement of wind power systems 2013 ,		5
33	Design of a Variable Geometry Turbine control strategy for Solid Oxide Fuel Cell and Gas Turbine hybrid systems 2012 ,		1
32	Torque Coordination Control During Mode Transition for a SeriesParallel Hybrid Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2936-2949	6.8	93
31	Parametrization and adaptation of gasoline engine air system model via linear programming Support Vector Regression 2012 ,		3

30	Model-based predictive control strategy for a solid oxide fuel cell system integrated with a turbocharger 2012 ,		1
29	Disturbance Compensating Model Predictive Control With Application to Ship Heading Control. <i>IEEE Transactions on Control Systems Technology</i> , 2011 ,	4.8	41
28	Real-Time Power Management of Integrated Power Systems in All Electric Ships Leveraging Multi Time Scale Property. <i>IEEE Transactions on Control Systems Technology</i> , 2011 ,	4.8	23
27	Performance Evaluation of Solid Oxide Fuel Cell Engines Integrated With Single/Dual-Spool Turbochargers. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		5
26	Optimal control of hybrid electric vehicles with power split and torque split strategies: A comparative case study 2011 ,		2
25	Adaptive decoupling control of the forced-circulation evaporation system using neural networks and multiple models 2011 ,		1
24	Linear Programming SVM-ARMA $\$_{\{rm 2K\}}\$$ With Application in Engine System Identification. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011 , 8, 846-854	4.9	9
23	Robust Control of Linear Systems With Disturbances Bounded in a State Dependent Set. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1740-1745	5.9	1
22	Large-dimensional multi-objective evolutionary algorithms based on improved average ranking 2010 ,		4
21	Path following of a model ship using Model Predictive Control with experimental verification 2010 ,		6
20	A hierarchical optimal control strategy for power management of hybrid power systems in all electric ships applications 2010 ,		12
19	System Identification of a Model Ship Using a Mechatronic System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 316-320	5.5	14
18	Robust control of linear systems with bounded state dependent additive disturbances 2010 ,		1
17	A Coordinating Control Strategy for Autothermal Fuel Reforming Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 779-788	4.8	6
16	Optimization and load-following characteristics of 5kw-class tubular solid oxide fuel cell/gas turbine hybrid systems 2010 ,		1
15	Hybrid intelligent optimal control of fused magnesium furnaces 2010 ,		4
14	Incremental Step Reference Governor for Load Conditioning of Hybrid Fuel Cell and Gas Turbine Power Plants. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 756-767	4.8	16
13	Path following for marine surface vessels with rudder and roll constraints: An MPC approach 2009 ,		37

12	Fuel cell based auxiliary power unit modeling, optimization, and control 2009 ,		3
11	Incremental step reference governor for load conditioning of hybrid Fuel Cell and Gas Turbine power plants 2008 ,		3
10	A PC-Cluster Based Real-Time Simulator for All-Electric Ship Integrated Power Systems Analysis and Optimization 2007 ,		9
9	A Numerically Efficient Iterative Procedure for Hybrid Power System Optimization Using Sensitivity Functions. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
8	Model-Based Control of an Integrated Fuel Cell and Fuel Processor With Exhaust Heat Recirculation. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 233-245	4.8	22
7	Control analysis of an ejector based fuel cell anode recirculation system 2006 ,		11
6	A Multi-mode Switching-based Command Tracking in Network Controlled Systems with Pointwise-in-Time Constraints and Disturbance Inputs 2006 ,		13
5	Load governor for fuel cell oxygen starvation protection: a robust nonlinear reference governor approach. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 911-920	4.8	84
4	Aftertreatment control and adaptation for automotive lean burn engines with HEGO sensors. <i>International Journal of Adaptive Control and Signal Processing</i> , 2004 , 18, 145-166	2.8	20
3	Optimal control-based powertrain feasibility assessment: A software implementation perspective		5
2	Dynamics, optimization and control of a fuel cell based combined heat power (CHP) system for shipboard applications		5
1	Modeling and control of automotive powertrain systems: a tutorial		2