

Stefano Longo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1376899/publications.pdf>

Version: 2024-02-01

65
papers

1,490
citations

623574

14
h-index

330025

37
g-index

66
all docs

66
docs citations

66
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on electric vehicle battery modelling: From Lithium-ion toward Lithium-Sulphur. Renewable and Sustainable Energy Reviews, 2016, 56, 1008-1021.	8.2	571
2	A Real-Time Nonlinear Model Predictive Control Strategy for Stabilization of an Electric Vehicle at the Limits of Handling. IEEE Transactions on Control Systems Technology, 2018, 26, 1982-1994.	3.2	70
3	Multi-temperature state-dependent equivalent circuit discharge model for lithium-sulfur batteries. Journal of Power Sources, 2016, 328, 289-299.	4.0	66
4	Lithium-Sulfur Battery State-of-Charge Observability Analysis and Estimation. IEEE Transactions on Power Electronics, 2018, 33, 5847-5859.	5.4	60
5	Wheel slip control with torque blending using linear and nonlinear model predictive control. Vehicle System Dynamics, 2017, 55, 1665-1685.	2.2	57
6	Rear wheel torque vectoring model predictive control with velocity regulation for electric vehicles. Vehicle System Dynamics, 2015, 53, 1555-1579.	2.2	46
7	Accuracy Versus Simplicity in Online Battery Model Identification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 195-206.	5.9	46
8	Electric vehicle battery parameter identification and SOC observability analysis: NiMH and Li-S case studies. IET Power Electronics, 2017, 10, 1289-1297.	1.5	45
9	Kalman-variant estimators for state of charge in lithium-sulfur batteries. Journal of Power Sources, 2017, 343, 254-267.	4.0	42
10	Lithium-Sulfur Cell Equivalent Circuit Network Model Parameterization and Sensitivity Analysis. IEEE Transactions on Vehicular Technology, 2017, 66, 7711-7721.	3.9	36
11	Improved state of charge estimation for lithium-sulfur batteries. Journal of Energy Storage, 2019, 26, 100943.	3.9	34
12	Degradation Control for Electric Vehicle Machines Using Nonlinear Model Predictive Control. IEEE Transactions on Control Systems Technology, 2018, 26, 89-101.	3.2	28
13	Parallel move blocking Model Predictive Control. , 2011, , .		27
14	Robust Scheduling of Sampled-Data Networked Control Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1613-1621.	3.2	26
15	Optimized estimator for real-time dynamic displacement measurement using accelerometers. Mechatronics, 2016, 39, 1-11.	2.0	22
16	Model Predictive torque vectoring control for electric vehicles near the limits of handling. , 2015, , .		14
17	Regularized MPC for Power Management of Hybrid Energy Storage Systems with Applications in Electric Vehicles * *Supported by the "Developing FUTURE Vehicles" project of the British Engineering and Physical Sciences Research Council.. IFAC-PapersOnLine, 2016, 49, 265-270.	0.5	14
18	UAV energy extraction with incomplete atmospheric data using MPC. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1203-1215.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Optimization Approaches for Controller and Schedule Codesign in Networked Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 301-306.	0.4	12
20	Stabilisability and detectability in networked control. IET Control Theory and Applications, 2010, 4, 1612-1626.	1.2	12
21	Number Representation in Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 60-67.	0.4	12
22	An Optimization Framework for Comparative Analysis of Multiple Vehicle Powertrains. Energies, 2013, 6, 5507-5537.	1.6	12
23	Constrained LQR for low-precision data representation. Automatica, 2014, 50, 162-168.	3.0	12
24	Predictive Control for Soaring of Unpowered Autonomous UAVs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 194-199.	0.4	11
25	Robust explicit MPC design under finite precision arithmetic. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2939-2944.	0.4	11
26	Feedback brake distribution control for minimum pitch. Vehicle System Dynamics, 2017, 55, 902-923.	2.2	11
27	Influence of battery capacity on performance of an electric vehicle fleet. , 2016, , .		10
28	A Study on Battery Model Parametrisation Problem - Application-Oriented Trade-offs between Accuracy and Simplicity. IFAC-PapersOnLine, 2016, 49, 48-53.	0.5	10
29	Explicit MPC: Hard constraint satisfaction under low precision arithmetic. Control Engineering Practice, 2016, 47, 60-69.	3.2	10
30	Multi-Scale, Electro-Thermal Model of NMC Battery Cell. IEEE Transactions on Vehicular Technology, 2019, 68, 10594-10606.	3.9	9
31	Fundamentals of Motion Planning for Mitigating Motion Sickness in Automated Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 2375-2384.	3.9	9
32	A parallel formulation for predictive control with nonuniform hold constraints. Annual Reviews in Control, 2011, 35, 207-214.	4.4	8
33	Impact of Battery Ageing on an Electric Vehicle Powertrain Optimisation. Journal of Sustainable Development of Energy, Water and Environment Systems, 2014, 2, 350-361.	0.9	8
34	Minimisation of Motion Sickness in Autonomous Vehicles. , 2020, , .		8
35	A MATLAB graphical user interface for battery design and simulation; from cell test data to real-world automotive simulation. , 2016, , .		7
36	State of Charge and State of Health Estimation Over the Battery Lifespan. Green Energy and Technology, 2018, , 267-288.	0.4	7

#	ARTICLE	IF	CITATIONS
37	Motion Planning of Self-driving Vehicles for Motion Sickness Minimisation. , 2020, , .		7
38	Predictive rear wheel torque vectoring control with terminal understeer mitigation using nonlinear estimation. , 2015, , .		6
39	Virtual metrology frame technique for improving dynamic performance of a small size machine tool. Precision Engineering, 2017, 48, 24-31.	1.8	6
40	A Framework for Self-Enforced Optimal Interaction Between Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6152-6161.	4.7	6
41	A Framework for Self-Enforced Interaction Between Connected Vehicles: Intersection Negotiation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6716-6725.	4.7	6
42	Nonlinear predictive control of autonomous soaring UAVs using 3DOF models. , 2013, , .		6
43	Scheduling of the FlexRay static segment for robust controller integration. , 2011, , .		5
44	Predictive Torque Vectoring Control with Active Trail-Braking. , 2018, , .		5
45	Nonlinear Filtering Techniques Comparison for Battery State Estimation. Journal of Sustainable Development of Energy, Water and Environment Systems, 2014, 2, 259-269.	0.9	5
46	A predictive control solver for low-precision data representation. , 2013, , .		5
47	Adaptive control of robotic servo system with friction compensation. , 2011, , .		4
48	Computation of an optimal communication schedule in a nonlinear networked control system using sum-of-squares. Systems and Control Letters, 2012, 61, 387-396.	1.3	4
49	A hardware-in-the-loop test rig for development of electric vehicle battery identification and state estimation algorithms. International Journal of Powertrains, 2018, 7, 227.	0.1	4
50	Energy-aware MPC co-design for DC-DC converters. , 2013, , .		4
51	Model-based active brake force distribution for pitch angle minimization. , 2015, , .		3
52	Cost functions for degradation control of electric motors in electric vehicles. , 2015, , .		3
53	A Time-efficient Integrated Path-tracking and Control Allocation Method for Autonomous Electric Vehicle. , 2019, , .		3
54	Integrated Path-tracking and Control Allocation Controller for Autonomous Electric Vehicle under Limit Handling Condition. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
55	A Torque Vectoring Optimal Control Strategy for Combined Vehicle Dynamics Performance Enhancement and Electric Motor Ageing Minimisation * *The authors would like to acknowledge the financial support from EPSRC via the "FUTURE Vehicle"™ project (grant number EP/I038586/1) and the Impact Acceleration Account (grant number EP/K503927/1).. IFAC-PapersOnLine, 2016, 49, 412-417.	0.5	2
56	Concept for hybrid optimization for schedule design in nonlinear networked control. , 2012, , .		1
57	Comparative Analysis of Multiple Powertrain Architectures based on a Novel Optimization Framework. , 2014, , .		1
58	Nonlinear Model Predictive Control for traction motor degradation minimization. , 2015, , .		1
59	A novel accelerometer based feedback concept for improving machine dynamic performance. IFAC-PapersOnLine, 2016, 49, 553-558.	0.5	1
60	Motion Sickness Minimisation in Autonomous Vehicles Using Optimal Control. Mechanisms and Machine Science, 2020, , 275-282.	0.3	1
61	Multi-Criteria Evaluation for Sorting Motion Planner Alternatives. Sensors, 2022, 22, 5177.	2.1	1
62	Robustness-verification in networked control systems via sum-of-square approach. , 2012, , .		0
63	Mechatronics in Sustainable Mobility: Two Electric Vehicle Applications. The Journal of Sustainable Mobility, 2014, 1, 19-36.	0.1	0
64	Cooperative Distributed Model Predictive Control via Linear Programmingâ...A Divide and Conquer Approach**This work was supported by the "Developing FUTURE Vehicles" project of the Engineering and Physical Sciences Research Council under the UK Low Carbon Vehicles Integrated Delivery Programme.. IFAC-PapersOnLine, 2015, 48, 308-313.	0.5	0
65	Energy and Time-Optimal Connected Autonomous Vehicle Interaction: Cruising and Overtaking. , 2018, , .		0