Stefano Longo

List of Publications by Year
in descending order

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	Fundamentals of Motion Planning for Mitigating Motion Sickness in Automated Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 2375-2384.	3.9	9
2	Multi-Criteria Evaluation for Sorting Motion Planner Alternatives. Sensors, 2022, 22, 5177.	2.1	1
3	A Framework for Self-Enforced Optimal Interaction Between Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6152-6161.	4.7	6
4	A Framework for Self-Enforced Interaction Between Connected Vehicles: Intersection Negotiation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6716-6725.	4.7	6
5	Motion Planning of Self-driving Vehicles for Motion Sickness Minimisation. , 2020, , .		7
6	Motion Sickness Minimisation in Autonomous Vehicles Using Optimal Control. Mechanisms and Machine Science, 2020, , 275-282.	0.3	1
7	Minimisation of Motion Sickness in Autonomous Vehicles. , 2020, , .		8
8	Integrated Path-tracking and Control Allocation Controller for Autonomous Electric Vehicle under Limit Handling Condition. , 2020, , .		3
9	Improved state of charge estimation for lithium-sulfur batteries. Journal of Energy Storage, 2019, 26, 100943.	3.9	34
10	A Time-efficient Integrated Path-tracking and Control Allocation Method for Autonomous Electric Vehicle. , 2019, , .		3
11	Multi-Scale, Electro-Thermal Model of NMC Battery Cell. IEEE Transactions on Vehicular Technology, 2019, 68, 10594-10606.	3.9	9
12	Lithiumâ€"Sulfur Battery State-of-Charge Observability Analysis and Estimation. IEEE Transactions on Power Electronics, 2018, 33, 5847-5859.	5.4	60
13	State of Charge and State of Health Estimation Over the Battery Lifespan. Green Energy and Technology, 2018, , 267-288.	0.4	7
14	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
15	Accuracy Versus Simplicity in Online Battery Model Identification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 195-206.	5.9	46
16	Degradation Control for Electric Vehicle Machines Using Nonlinear Model Predictive Control. IEEE Transactions on Control Systems Technology, 2018, 26, 89-101.	3.2	28
17	Energy and Time-Optimal Connected Autonomous Vehicle Interaction: Cruising and Overtaking. , 2018, , .		0
18	Predictive Torque Vectoring Control with Active Trail-Braking. , 2018, , .		5

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19	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
20	Lithium–Sulfur Cell Equivalent Circuit Network Model Parameterization and Sensitivity Analysis. IEEE Transactions on Vehicular Technology, 2017, 66, 7711-7721.	3.9	36
21	Wheel slip control with torque blending using linear and nonlinear model predictive control. Vehicle System Dynamics, 2017, 55, 1665-1685.	2.2	57
22	Feedback brake distribution control for minimum pitch. Vehicle System Dynamics, 2017, 55, 902-923.	2.2	11
23	Virtual metrology frame technique for improving dynamic performance of a small size machine tool. Precision Engineering, 2017, 48, 24-31.	1.8	6
24	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
25	Kalman-variant estimators for state of charge in lithium-sulfur batteries. Journal of Power Sources, 2017, 343, 254-267.	4.0	42
26	Influence of battery capacity on performance of an electric vehicle fleet. , 2016, , .		10
27	A novel accelerometer based feedback concept for improving machine dynamic performance. IFAC-PapersOnLine, 2016, 49, 553-558.	0.5	1
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	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 â€œFUTURE Vehicleâ€™ 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
30	A MATLAB graphical user interface for battery design and simulation; from cell test data to real-world automotive simulation. , 2016, , .		7
31	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
32	Optimized estimator for real-time dynamic displacement measurement using accelerometers. Mechatronics, 2016, 39, 1-11.	2.0	22
33	Multi-temperature state-dependent equivalent circuit discharge model for lithium-sulfur batteries. Journal of Power Sources, 2016, 328, 289-299.	4.0	66
34	Explicit MPC: Hard constraint satisfaction under low precision arithmetic. Control Engineering Practice, 2016, 47, 60-69.	3.2	10
35	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
36	Cooperative Distributed Model Predictive Control via Linear Programmingâ˜…A Divide and Conquer Approach**This work was supported by the â€œDeveloping FUTURE Vehiclesâ€•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

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37	Model-based active brake force distribution for pitch angle minimization. , 2015, , .		3
38	Cost functions for degradation control of electric motors in electric vehicles. , 2015, , .		3
39	Model Predictive torque vectoring control for electric vehicles near the limits of handling. , 2015, , .		14
40	Nonlinear Model Predictive Control for traction motor degradation minimization. , 2015, , .		1
41	Predictive rear wheel torque vectoring control with terminal understeer mitigation using nonlinear estimation. , 2015, , .		6
42	Rear wheel torque vectoring model predictive control with velocity regulation for electric vehicles. Vehicle System Dynamics, 2015, 53, 1555-1579.	2.2	46
43	UAV energy extraction with incomplete atmospheric data using MPC. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1203-1215.	2.6	13
44	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
45	Comparative Analysis of Multiple Powertrain Architectures based on a Novel Optimization Framework. , 2014, , .		1
46	Constrained LQR for low-precision data representation. Automatica, 2014, 50, 162-168.	3.0	12
47	Robust explicit MPC design under finite precision arithmetic. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2939-2944.	0.4	11
48	Mechatronics in Sustainable Mobility: Two Electric Vehicle Applications. The Journal of Sustainable Mobility, 2014, 1, 19-36.	0.1	0
49	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
50	An Optimization Framework for Comparative Analysis of Multiple Vehicle Powertrains. Energies, 2013, 6, 5507-5537.	1.6	12
51	A predictive control solver for low-precision data representation. , 2013, , .		5
52	Energy-aware MPC co-design for DC-DC converters. , 2013, , .		4
53	Nonlinear predictive control of autonomous soaring UAVs using 3DOF models. , 2013, , .		6
54	Number Representation in Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 60-67.	0.4	12

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55	Predictive Control for Soaring of Unpowered Autonomous UAVs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 194-199.	0.4	11
56	Concept for hybrid optimization for schedule design in nonlinear networked control. , 2012, , .		1
57	Robust Scheduling of Sampled-Data Networked Control Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1613-1621.	3.2	26
58	Robustness-verification in networked control systems via sum-of-square approach. , 2012, , .		0
59	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
60	Adaptive control of robotic servo system with friction compensation. , 2011, , .		4
61	Scheduling of the FlexRay static segment for robust controller integration. , 2011, , .		5
62	Parallel move blocking Model Predictive Control. , 2011, , .		27
63	A parallel formulation for predictive control with nonuniform hold constraints. Annual Reviews in Control, 2011, 35, 207-214.	4.4	8
64	Stabilisability and detectability in networked control. IET Control Theory and Applications, 2010, 4, 1612-1626.	1.2	12
65	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