

Antonio Sciarretta

List of Publications by Year in descending order

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80
papers

4,355
citations

430874

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302126

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82
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82
docs citations

82
times ranked

2255
citing authors

#	ARTICLE	IF	CITATIONS
1	Connectivity and Automation as Enablers for Energy-Efficient Driving and Road Traffic Management. , 2022, , 2337-2376.		1
2	Connectivity and Automation as Enablers for Energy-Efficient Driving and Road Traffic Management. , 2021, , 1-40.		1
3	Cooperative Eco-Driving of Electric Vehicle Platoons for Energy Efficiency and String Stability. IFAC-PapersOnLine, 2021, 54, 133-139.	0.9	6
4	A general constrained optimization framework for the eco-routing problem: Comparison and analysis of solution strategies for hybrid electric vehicles. Transportation Research Part C: Emerging Technologies, 2021, 123, 102935.	7.6	11
5	Cooperative Levels in Eco-Driving of Electric Vehicle Platoons. , 2021, , .		6
6	Real-time eco-driving for connected electric vehicles. IFAC-PapersOnLine, 2021, 54, 126-131.	0.9	6
7	Energy-Efficient Driving of Road Vehicles. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , .	0.5	36
8	Fundamentals of Vehicle Modeling. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 33-62.	0.5	0
9	Eco-Driving Practical Implementation. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 215-239.	0.5	0
10	Multi-Agent Control of Lane-Switching Automated Vehicles for Energy Efficiency. , 2020, , .		6
11	Energy Saving Potentials of CAVs. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 1-31.	0.5	5
12	Information and Collaboration Levels in Vehicular Strings: A Comparative Study. IFAC-PapersOnLine, 2020, 53, 13822-13829.	0.9	3
13	Energy-Efficient Route Navigation (Eco-Routing). Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 111-129.	0.5	1
14	Detailed Case Studies. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 241-273.	0.5	0
15	Energy-Efficient Speed Profiles (Eco-Driving). Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 131-178.	0.5	3
16	Route and Traffic Description. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 83-110.	0.5	0
17	A Time- and Energy-Optimal Routing Strategy for Electric Vehicles with Charging Constraints. , 2020, , .		5
18	Real-Time Optimal Eco-Driving for Hybrid-Electric Vehicles. IFAC-PapersOnLine, 2019, 52, 562-567.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Fundamentals of energy efficient driving for combustion engine and electric vehicles: An optimal control perspective. Automatica, 2019, 103, 558-572.	5.0	99
20	Safe- and Eco-Driving Control for Connected and Automated Electric Vehicles Using Analytical State-Constrained Optimal Solution. IEEE Transactions on Intelligent Vehicles, 2018, 3, 163-172.	12.7	101
21	A Local-Realistic Model of Quantum Mechanics Based on a Discrete Spacetime. Foundations of Physics, 2018, 48, 60-91.	1.3	4
22	Impact of Model Simplification on Optimal Control of Combustion Engine and Electric Vehicles Considering Control Input Constraints. , 2018, , .		4
23	A Constrained Eco-Routing Strategy for Hybrid Electric Vehicles Based on Semi-Analytical Energy Management. , 2018, , .		13
24	A Unified Approach for Electric Vehicles Range Maximization via Eco-Routing, Eco-Driving, and Energy Consumption Prediction. IEEE Transactions on Intelligent Vehicles, 2018, 3, 463-475.	12.7	50
25	Energy saving potentials of connected and automated vehicles. Transportation Research Part C: Emerging Technologies, 2018, 95, 822-843.	7.6	332
26	Thermal management optimization of a heat-pump-based HVAC system for cabin conditioning in electric vehicles. , 2018, , .		7
27	Presenting A Realistic, Stochastic, And Local Model Of Quantum Mechanics. , 2018, , .		0
28	Organic Rankine Cycle for Vehicles: Control Design and Experimental Results. IEEE Transactions on Control Systems Technology, 2017, 25, 952-965.	5.2	34
29	A real-time eco-driving strategy for automated electric vehicles. , 2017, , .		15
30	Online Energy Management System (EMS) Including Engine and Catalyst Temperatures for a Parallel HEV. IFAC-PapersOnLine, 2017, 50, 8913-8920.	0.9	20
31	Handling State Constraints in Fast-computing Optimal Control for Hybrid Powertrains. IFAC-PapersOnLine, 2017, 50, 4781-4786.	0.9	5
32	Bi-objective eco-routing in large urban road networks. , 2017, , .		12
33	GRAB-ECO for Minimal Fuel Consumption Estimation of Parallel Hybrid Electric Vehicles. Oil and Gas Science and Technology, 2017, 72, 39.	1.4	0
34	Model-Based Eco-Routing Strategy for Electric Vehicles in Large Urban Networks. SpringerBriefs in Applied Sciences and Technology, 2017, , 81-99.	0.4	14
35	A model-based eco-routing strategy for electric vehicles in large urban networks. , 2016, , .		18
36	About prediction of vehicle energy consumption for eco-routing. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
37	Design and Control Co-Optimization for Hybrid Powertrains: Development of Dedicated Optimal Energy Management Strategy. IFAC-PapersOnLine, 2016, 49, 277-284.	0.9	16
38	Performance of current eco-routing methods. , 2016, , .		23
39	State of Charge Management for Plug-In Hybrid Vehicles With Uncertain Trip Information. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	5
40	Optimal control for an organic rankine cycle on board a diesel-electric railcar. Journal of Process Control, 2015, 33, 1-13.	3.3	53
41	Optimal Ecodriving Control: Energy-Efficient Driving of Road Vehicles as an Optimal Control Problem. IEEE Control Systems, 2015, 35, 71-90.	0.8	265
42	ECMS Controller Robustness in Flex-Fuel Hybrid Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	9
43	Control design for an automotive turbine Rankine Cycle system based on nonlinear state estimation. , 2014, , .		12
44	Editorial: IFAC Workshop on Engine and Powertrain Control, Simulation and Modeling (ECOSM 2012). Control Engineering Practice, 2014, 29, 174-175.	5.5	0
45	A control benchmark on the energy management of a plug-in hybrid electric vehicle. Control Engineering Practice, 2014, 29, 287-298.	5.5	110
46	Optimal energy management for an electric vehicle in eco-driving applications. Control Engineering Practice, 2014, 29, 299-307.	5.5	183
47	Optimal Energy Management of Automotive Battery Systems Including Thermal Dynamics and Aging. Lecture Notes in Control and Information Sciences, 2014, , 219-236.	1.0	8
48	Vehicle Propulsion Systems. , 2013, , .		298
49	State of charge management for plug in hybrid electric vehicles with uncertain distance to recharge. , 2013, , .		7
50	Improving the control performance of an Organic Rankine Cycle system for waste heat recovery from a heavy-duty diesel engine using a model-based approach. , 2013, , .		32
51	Robustness of ECMS-based Optimal Control in Parallel Hybrid Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 127-132.	0.4	6
52	Supervision and control prototyping for an engine exhaust gas heat recovery system based on a steam Rankine cycle. , 2012, , .		12
53	Optimal energy management compliant with online requirements for an electric vehicle in eco-driving applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 334-340.	0.4	13
54	Towards model-based control of a steam Rankine process for engine waste heat recovery. , 2012, , .		23

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55	Optimal drive of electric vehicles using an inversion-based trajectory generation approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14519-14526.	0.4	59
56	Supervisory control of hybrid powertrains: An experimental benchmark of offline optimization and online energy management. Control Engineering Practice, 2011, 19, 1253-1265.	5.5	68
57	Energy management strategy for Diesel hybrid electric vehicle. , 2011, , .		26
58	Optimal control to minimize trip time and energy consumption in electric vehicles. , 2011, , .		42
59	Optimal energy management of hybrid electric vehicles including battery aging. , 2011, , .		120
60	Explicit optimal control policy and its practical application for hybrid electric powertrains. Control Engineering Practice, 2010, 18, 1429-1439.	5.5	77
61	Sizing and fuel consumption evaluation methodology for hybrid light duty vehicles. World Electric Vehicle Journal, 2010, 4, 249-258.	3.0	8
62	On the integration of optimal energy management and thermal management of hybrid electric vehicles. , 2010, , .		37
63	Online Implementation of an Optimal Supervisory Control for a Parallel Hybrid Powertrain. SAE International Journal of Engines, 2009, 2, 1630-1638.	0.4	31
64	Model-based adaptive observers for intake leakage detection in diesel engines. , 2009, , .		21
65	Control of hybrid electric vehicles. IEEE Control Systems, 2007, 27, 60-70.	0.8	755
66	Analysis of the potential performance of a combined hybrid vehicle with optimal supervisory control. , 2006, , .		8
67	A lattice gas model with temperature and buoyancy effects to predict the concentration of pollutant gas released by power plants and traffic sources. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 313-327.	2.2	2
68	Analysis of the Potential Performance of a Combined Hybrid Vehicle with Optimal Supervisory Control. , 2006, , .		11
69	Optimal power management of an experimental fuel cell/supercapacitor-powered hybrid vehicle. Control Engineering Practice, 2005, 13, 41-53.	5.5	351
70	Control-Oriented Modeling and Fuel Optimal Control of a Series Hybrid Bus. , 2005, , .		20
71	Fuel-Optimal Control of Rendezvous Maneuvers for Passenger Cars (Treibstoffoptimale AnnÄherung) Tj ETQq1 1 0.784314 rgBT /Over	0.8	12
72	Optimal Control of Parallel Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2004, 12, 352-363.	5.2	698

#	ARTICLE	IF	CITATIONS
73	Regelung der Leistungsaufteilung von Parallelhybridfahrzeugen: Von der optimalen Steuerung zur Echtzeitanwendung (On the Power Split Control of Parallel Hybrid Vehicles: from Global) Tj ETQq1 1 0.784314 rgBÖ/Överlock110 Tf 5 07		10
74	The Quasi-Propagatory Model: A New Approach for Describing Transient Phenomena in Engine Manifolds. , 2001, , .		22
75	Model-based Compensation of the Injector Dynamics for Multiple-Injection Combustion Patterns. , 0, , .		3
76	Control-Oriented Modeling of Power Split Devices in Combined Hybrid-Electric Vehicles. , 0, , .		5
77	Modular Methodology to Optimize Innovative Drivetrains. , 0, , .		3
78	Automatic Generation of Online Optimal Energy Management Strategies for Hybrid Powertrain Simulation. , 0, , .		17
79	A Fully-Analytical Fuel Consumption Estimation for the Optimal Design of Light- and Heavy-Duty Series Hybrid Electric Powertrains. , 0, , .		4
80	A local-realistic quantum mechanical model of spin and spin entanglement. International Journal of Quantum Information, 0, , 2150006.	1.1	2