

Roberto Lot

List of Publications by Year in descending order

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47
papers

1,206
citations

394421

19
h-index

501196

28
g-index

49
all docs

49
docs citations

49
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	A Motorcycle Multi-Body Model for Real Time Simulations Based on the Natural Coordinates Approach. <i>Vehicle System Dynamics</i> , 2002, 37, 423-447.	3.7	153
2	An intelligent curve warning system for powered two wheel vehicles. <i>European Transport Research Review</i> , 2010, 2, 147-156.	4.8	77
3	Minimum time cornering: the effect of road surface and car transmission layout. <i>Vehicle System Dynamics</i> , 2013, 51, 1533-1547.	3.7	66
4	A Motorcycle Tire Model for Dynamic Simulations: Theoretical and Experimental Aspects. <i>Meccanica</i> , 2004, 39, 207-220.	2.0	58
5	Steady Turning of Two-Wheeled Vehicles. <i>Vehicle System Dynamics</i> , 1999, 31, 157-181.	3.7	56
6	Experimental evaluation of a system for assisting motorcyclists to safely ride road bends. <i>European Transport Research Review</i> , 2014, 6, 411-423.	4.8	55
7	Series Hybrid Electric Vehicle Simultaneous Energy Management and Driving Speed Optimization. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2756-2767.	5.8	55
8	On the use of natural coordinates in optimal synthesis of mechanisms. <i>Mechanism and Machine Theory</i> , 2000, 35, 1367-1389.	4.5	47
9	Frequency-domain method for evaluating the ride comfort of a motorcycle. <i>Vehicle System Dynamics</i> , 2006, 44, 339-355.	3.7	47
10	Optimal sizing and sensitivity analysis of a battery-supercapacitor energy storage system for electric vehicles. <i>Energy</i> , 2021, 221, 119851.	8.8	45
11	The influence of frame compliance and rider mobility on the scooter stability. <i>Vehicle System Dynamics</i> , 2007, 45, 313-326.	3.7	43
12	Comparison of two warning concepts of an intelligent Curve Warning system for motorcyclists in a simulator study. <i>Accident Analysis and Prevention</i> , 2012, 44, 118-125.	5.7	41
13	Intersection Support System for Powered Two-Wheeled Vehicles: Threat Assessment Based on a Receding Horizon Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 805-816.	8.0	33
14	Active safety systems for powered two-wheelers: A systematic review. <i>Traffic Injury Prevention</i> , 2020, 21, 78-86.	1.4	33
15	Adaptive energy management of a battery-supercapacitor energy storage system for electric vehicles based on flexible perception and neural network fitting. <i>Applied Energy</i> , 2021, 292, 116932.	10.1	32
16	Green driving optimization of a series hybrid electric vehicle. , 2013, , .		31
17	Minimum time optimal control simulation of a GP2 race car. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 1180-1195.	1.9	31
18	The Influence of Tire Properties on the Stability of a Motorcycle in Straight Running and Curves. , 0, , .		24

#	ARTICLE	IF	CITATIONS
19	Objective and subjective evaluation of an advanced motorcycle riding simulator. European Transport Research Review, 2010, 2, 223-233.	4.8	24
20	Optimum Suspension Design for Motorcycle Braking. Vehicle System Dynamics, 2000, 34, 175-198.	3.7	21
21	The Optimality of the Handbrake Cornering Technique. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	20
22	Hybrid Electric Vehicle Two-Step Fuel Efficiency Optimization With Decoupled Energy Management and Speed Control. IEEE Transactions on Vehicular Technology, 2019, 68, 11492-11504.	6.3	20
23	Lap time optimisation of a racing go-kart. Vehicle System Dynamics, 2016, 54, 210-230.	3.7	19
24	On the Braking Behavior of Motorcycles. , 0, , .		17
25	Numerical and experimental investigation of passive rider effects on motorcycle weave. Vehicle System Dynamics, 2012, 50, 215-227.	3.7	16
26	Driver Modeling and Implementation of a Fuel-Saving ADAS. , 2018, , .		14
27	A Multibody Code for Motorcycle Handling and Stability Analysis with Validation and Examples of Application. , 0, , .		13
28	A Symbolic Approach to the Multibody Modeling of Road Vehicles. International Journal of Applied Mechanics, 2017, 09, 1750068.	2.2	13
29	Fuel Efficiency Optimization Methodologies for Series Hybrid Electric Vehicles. , 2018, , .		13
30	Real-time predictive eco-driving assistance considering road geometry and long-range radar measurements. IET Intelligent Transport Systems, 2021, 15, 573-583.	3.0	11
31	A/C Energy Management and Vehicle Cabin Thermal Comfort Control. IEEE Transactions on Vehicular Technology, 2018, 67, 11238-11242.	6.3	10
32	The Generalized Torque Approach for Analyzing the Results of Pedaling Tests. Journal of Biomechanical Engineering, 2001, 123, 33-39.	1.3	7
33	Real-Time Roll Angle Estimation for Two-Wheeled Vehicles. , 2012, , .		7
34	Integrated Management of Powertrain and Engine Cooling System for Parallel Hybrid Electric Vehicles. , 2018, , .		7
35	A virtual rider for two-wheeled vehicles. , 2010, , .		5
36	A virtual motorcycle driver to simulate real manoeuvres from experimental data. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1211-1219.	1.9	5

#	ARTICLE	IF	CITATIONS
37	The Significance of Powertrain Characteristics on the Chatter of Racing Motorcycles. , 2012, , .		4
38	Optimization of the centre of mass position of a racing motorcycle in dry and wet track by means of the “Optimal Maneuver Method”. , 2013, , .		3
39	On the optimality of handbrake cornering. , 2013, , .		3
40	Impact of Optimally Controlled Continuously Variable Transmission on Fuel Economy of a Series Hybrid Electric Vehicle. , 2018, , .		3
41	Enhancing the Performance of High Powered Motorcycles by a Proper Definition of Geometry and Mass Distribution. , 2002, , .		2
42	Fitting Cornering Speed Models with One-Class Support Vector Machines. , 2019, , .		2
43	Discussion on: â€œExperimental Identification of the Engine-to-Slip Dynamics for Traction Control Applications in a Sport Motorcycleâ€, European Journal of Control, 2010, 16, 113-114.	2.6	1
44	Optimization of Dual Energy Storage System for High-Performance Electric Vehicles. , 2018, , .		1
45	Discussion on: â€œOptimal Motion-Cueing Algorithm Using Motion System Kinematicsâ€, European Journal of Control, 2012, 18, 376.	2.6	0
46	Optimization of the Roll and Steer Systems of a Four-Wheeled Tilting Vehicle. , 2014, , .		0
47	A sensorless traction strategy for all-wheel drive electric motorcycles. Vehicle System Dynamics, 0, , 1-26.	3.7	0