Mauro Velardocchia

List of Publications by Year
in descending order

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46	352	1307594 7	1199594 12
papers	citations	h-index	g-index

47	47	47	167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Power-Weighted Efficiency of Multimode Powertrains: A Case Study on a Two-Mode Hybrid System. Mechanisms and Machine Science, 2022, , 522-531.	0.5	1
2	Analytical Study on the Cornering Behavior of an Articulated Tracked Vehicle. Machines, 2021, 9, 38.	2.2	11
3	Articulated Steering Control for an All-Terrain Tracked Vehicle. Mechanisms and Machine Science, 2021, , 823-830.	0.5	3
4	Energy Management Strategy for Hybrid Multimode Powertrains: Influence of Inertial Properties and Road Inclination. Applied Sciences (Switzerland), 2021, 11, 11752.	2.5	5
5	On the Design of Yaw Rate Control via Variable Front-to-Total Anti-Roll Moment Distribution. IEEE Transactions on Vehicular Technology, 2020, 69, 1388-1403.	6.3	13
6	Effect of Engine Start and Clutch Slip Losses on the Energy Management Problem of a Hybrid DCT Powertrain. International Journal of Automotive Technology, 2020, 21, 953-969.	1.4	7
7	Dynamic Analysis and Control of a Dual Mode Electrically Variable Transmission. Mechanisms and Machine Science, 2019, , 3731-3740.	0.5	4
8	Passenger car active braking system: Pressure control design and experimental results (part II). Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 786-798.	2.1	10
9	Passenger car active braking system: Model and experimental validation (Part I). Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 585-594.	2.1	12
10	Path Tracking Control for Autonomous Driving Applications. Mechanisms and Machine Science, 2018, , 456-467.	0.5	1
11	On the Experimental Analysis of Integral Sliding Modes for Yaw Rate and Sideslip Control of an Electric Vehicle with Multiple Motors. International Journal of Automotive Technology, 2018, 19, 811-823.	1.4	40
12	Transient response and frequency domain analysis of an electrically variable transmission. Advances in Mechanical Engineering, 2018, 10, 168781401877618.	1.6	6
13	Torsional Oscillations in Automotive Transmissions: Experimental Analysis and Modelling. Shock and Vibration, 2016, 2016, 1-14.	0.6	9
14	Experimental Analysis and Model Validation of a Dual Mass Flywheel for Passenger Cars. , 2015, , .		8
15	Automated manual transmission with a torque gap filler Part 2: control and experimental validation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1700-1717.	1.9	4
16	Automated manual transmission with a torque gap filler Part 1: kinematic analysis and dynamic analysis. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1247-1261.	1.9	11
17	Electro-mechanical transmission modelling for series-hybrid tracked tanks. International Journal of Heavy Vehicle Systems, 2012, 19, 256.	0.2	17
18	A Prototype Vehicle for Powertrain and Chassis Control System Tests. , 2011, , .		0

#	Article	IF	Citations
19	Gearbox Design by means of Genetic Algorithm and CAD/CAE Methodologies. , 2010, , .		1
20	Steering Feedback Torque Definition and Generation in a Steer by Wire System. , 2008, , .		7
21	Enhanced Tire Brush Model for Vehicle Dynamics Simulation. , 2008, , .		8
22	Block-oriented Models of Torque Gap Filler Devices for AMT Transmissions. , 2008, , .		11
23	Experimental Validation of a Model for Control of Drivability in a Hybrid-Electric Vehicle. , 2007, , 105.		7
24	Friction inside Wheel Hub Bearings: Evaluation through Analytical Models and Experimental Methodologies. , 2007, , .		1
25	An Objective Evaluation of the Comfort During the Gear Change Process. , 2007, , .		14
26	A Methodology to Investigate the Dynamic Characteristics of ESP and EHB Hydraulic Units. , 2006, , .		6
27	Hardware-In-the-Loop to Evaluate Active Braking Systems Performance. , 2005, , .		13
28	Base Model Simulator (BMS) - A Vehicle Dynamics Model to Evaluate Chassis Control Systems Performance. , 2005, , .		6
29	An Innovative Control Logic for a Four Wheel Steer Vehicle - Part 1: Analysis and Design. , 2005, , .		2
30	A Failsafe Strategy for a Vehicle Dynamics Control (VDC) System. , 2004, , .		1
31	Active Roll Control to Increase Handling and Comfort. , 2003, , .		19
32	Modelling Vehicle Dynamics for Virtual Experimentation, Road Test Supporting and Dynamic Control. , 2002, , .		4
33	Engine Control Strategy to Optimize a Shift Transient During Clutch Engagement. , 2001, , .		3
34	Title is missing!. , 1998, 8, 335-337.		3
35	Electro-Hydraulic Braking System Modelling and Simulation. , 0, , .		20
36	Four-wheel-steering Control Strategy and its Integration with Vehicle Dynamics Control and Active Roll Control. , 0, , .		6

#	Article	IF	Citations
37	Driveline Layout Influence on Four Wheel Drive Dynamics. , 0, , .		7
38	Hardware-In-the-Loop (HIL) Testing of ESP (Electronic Stability Program) Commercial Hydraulic Units and Implementation of New Control Strategies. , 0, , .		15
39	An Innovative Control Logic for a Four Wheel Steer Vehicle â€“ Part 2: Simulation and Road Test. , 0, , .		0
40	Dual Rate Boosters: Analysis, Modeling and Experimental Evaluation of Their Performance. , 0, , .		2
41	Multi-body Versus Block-Oriented Approach in Suspension Dynamics of a Military Tracked Tank. , 0, , .		1
42	H-ergo: Electric-Hydrogen Powered Personal Mobility Concept Vehicle. , 0, , .		1
43	Design and Development of an In-Hub Motors Hybrid Vehicle for Military Applications. , 0, , .		7
44	Integrated Active and Passive Systems for a Side Impact Scenario. , 0, , .		2
45	Enhancing Transmission NVH Performance through Powertrain Control Integration with Active Braking System. , 0, , .		11
46	Pressure Following Strategy for Conventional Braking Control Applied to a HIL Test Bench. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 10, 721-727.	0.4	11