Matteo Massaro

List of Publications by Year in descending order

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54	845	643344	620720
papers	citations	15 h-index	26 g-index

56	56	56	410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A three-dimensional free-trajectory quasi-steady-state optimal-control method for minimum-lap-time of race vehicles. Vehicle System Dynamics, 2022, 60, 1512-1530.	2.2	16
2	Three-dimensional fixed-trajectory approaches to the minimum-lap time of road vehicles. Vehicle System Dynamics, 2022, 60, 3650-3667.	2.2	9
3	Optimal recovery manoeuvres of racing motorcycles. Meccanica, 2022, 57, 457-472.	1.2	1
4	The effect of Ackermann steering on the performance of race cars. Vehicle System Dynamics, 2021, 59, 907-927.	2.2	15
5	Advances in Mechanical Systems Dynamics 2020. Applied Sciences (Switzerland), 2021, 11, 2352.	1.3	0
6	Variable Stiffness Mechanism for the Reduction of Cutting Forces in Robotic Deburring. Applied Sciences (Switzerland), 2021, 11, 2883.	1.3	4
7	Minimum-lap-time optimisation and simulation. Vehicle System Dynamics, 2021, 59, 1069-1113.	2.2	22
8	Curved-ribbon-based track modelling for minimum lap-time optimisation. Meccanica, 2021, 56, 2139-2152.	1.2	14
9	A Screw-Axis Approach to the Stability of Two-Wheeled Vehicles. Applied Sciences (Switzerland), 2021, 11, 7393.	1.3	1
10	A Biomechanical Rider Model for Multibody Applications. Mechanisms and Machine Science, 2021, , 154-161.	0.3	0
11	A free-trajectory quasi-steady-state optimal-control method for minimum lap-time of race vehicles. Vehicle System Dynamics, 2020, 58, 933-954.	2.2	24
12	Advances in Mechanical Systems Dynamics. Applied Sciences (Switzerland), 2020, 10, 61.	1.3	1
13	A Three-Dimensional Parametric Biomechanical Rider Model for Multibody Applications. Applied Sciences (Switzerland), 2020, 10, 4509.	1.3	5
14	Active safety systems for powered two-wheelers: A systematic review. Traffic Injury Prevention, 2020, 21, 78-86.	0.6	33
15	Identification of Riderâ€™s Arms Dynamic Response and Effects on Bicycle Stability. , 2020, , .		0
16	A Free-Trajectory Quasi-steady-state Optimal-Control Method for Minimum-Time Problems of Cars and Motorcycles. Lecture Notes in Mechanical Engineering, 2020, , 1264-1270.	0.3	0
17	Comparison of direct and indirect methods for minimum lap time optimal control problems. Vehicle System Dynamics, 2019, 57, 665-696.	2.2	52
18	Assessment of Shoulder and Chest Protection of Wearable Motorcycle Airbags. , 2019, , .		0

#	Article	IF	Citations
19	Enhancing the Performance of an FSAE Car. , 2019, , .		0
20	The effect of engine spin direction on the dynamics of powered two wheelers. Vehicle System Dynamics, 2018, 56, 604-620.	2.2	5
21	Dynamics and Optimal Control of Road Vehicles. , 2018, , .		43
22	Passive Control of Bridge Wind-Induced Instabilities by Tuned Mass Dampers and Movable Flaps. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	14
23	A Symbolic Approach to the Multibody Modeling of Road Vehicles. International Journal of Applied Mechanics, 2017, 09, 1750068.	1.3	13
24	Aeroelastic control of long-span suspension bridges with controllable winglets. Structural Control and Health Monitoring, 2016, 23, 1417-1441.	1.9	23
25	Aeroelastic Control of Long Span Suspension Bridges during Erection. , 2015, , .		3
26	Experimental and numerical investigation on the motorcycle front frame flexibility and its effect on stability. Mechanical Systems and Signal Processing, 2015, 60-61, 452-471.	4.4	9
27	Optimal control of motorsport differentials. Vehicle System Dynamics, 2015, 53, 1772-1794.	2.2	21
28	The effect of three-dimensionality on the aerodynamic admittance of thin sections in free stream turbulence. Journal of Fluids and Structures, 2015, 57, 81-90.	1.5	56
29	The Optimality of the Handbrake Cornering Technique. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	20
30	Optimization of the Roll and Steer Systems of a Four-Wheeled Tilting Vehicle. , 2014, , .		0
31	Identification of the characteristics of motorcycle and scooter tyres in the presence of large variations in inflation pressure. Vehicle System Dynamics, 2014, 52, 1333-1354.	2.2	10
32	A portable driving simulator for single-track vehicles. , 2013, , .		2
33	Minimum time cornering: the effect of road surface and car transmission layout. Vehicle System Dynamics, 2013, 51, 1533-1547.	2.2	66
34	Electric rear axle torque vectoring for combined yaw stability and velocity control near the limit of handling. , 2013, , .		20
35	On the optimality of handbrake cornering. , 2013, , .		3
36	The effect of the inflation pressure on the tyre properties and the motorcycle stability. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 1480-1488.	1.1	9

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37	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.	1.1	5
38	Real-Time Roll Angle Estimation for Two-Wheeled Vehicles. , 2012, , .		7
39	The Significance of Powertrain Characteristics on the Chatter of Racing Motorcycles. , 2012, , .		4
40	Neuromuscular-Steering Dynamics: Motorcycle Riders vs. Car Drivers. , 2012, , .		5
41	Discussion on: â€œOptimal Motion-Cueing Algorithm Using Motion System Kinematicsâ€• European Journal of Control, 2012, 18, 376.	1.6	0
42	Numerical and experimental investigation of passive rider effects on motorcycle weave. Vehicle System Dynamics, 2012, 50, 215-227.	2.2	16
43	Numerical investigation of engine-to-slip dynamics for motorcycle traction control applications. Vehicle System Dynamics, 2011, 49, 419-432.	2.2	15
44	The effect of riderâ€™s passive steering impedance onÂmotorcycle stability: identification and analysis. Meccanica, 2011, 46, 279-292.	1.2	34
45	An advanced multibody code for handling and stability analysis of motorcycles. Meccanica, 2011, 46, 943-958.	1.2	56
46	A nonlinear virtual rider for motorcycles. Vehicle System Dynamics, 2011, 49, 1477-1496.	2.2	18
47	On Engine-to-Slip Modelling for Motorcycle Traction Control Design. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 15-27.	1.1	12
48	Development and validation of an advanced motorcycle riding simulator. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 705-720.	1.1	30
49	Investigation of Motorcycle Steering Torque Components. AIP Conference Proceedings, 2011, , .	0.3	15
50	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.	1.6	1
51	A virtual rider for two-wheeled vehicles. , 2010, , .		5
52	The chatter of racing motorcycles. Vehicle System Dynamics, 2008, 46, 339-353.	2.2	27
53	Advanced motorcycle virtual rider. Vehicle System Dynamics, 2008, 46, 215-224.	2.2	14
54	The influence of frame compliance and rider mobility on the scooter stability. Vehicle System Dynamics, 2007, 45, 313-326.	2.2	43