

# Matteo Corno

## List of Publications by Citations

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134  
papers

1,469  
citations

22  
h-index

31  
g-index

152  
ext. papers

1,873  
ext. citations

3.6  
avg, IF

5.13  
L-index

#	Paper	IF	Citations
134	On optimal motorcycle braking. <i>Control Engineering Practice</i> , <b>2008</b> , 16, 644-657	3.9	72
133	Electrochemical Model-Based State of Charge Estimation for Li-Ion Cells. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 117-127	4.8	63
132	Vehicle sideslip estimation: A kinematic based approach. <i>Control Engineering Practice</i> , <b>2017</b> , 67, 1-12	3.9	63
131	Data-Driven Design of Braking Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 186-193	4.8	60
130	On linear-parameter-varying (LPV) slip-controller design for two-wheeled vehicles. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 1313-1336	3.6	59
129	Hybrid ABS Control Using Force Measurement. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 1223-1235	4.8	47
128	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 3347-3356	8.9	46
127	Adaptive position-pressure control of a brake by wire actuator for sport motorcycles. <i>European Journal of Control</i> , <b>2014</b> , 20, 79-86	2.5	38
126	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1310-1319	5.5	32
125	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 18-30	4.8	32
124	Experimental Identification of Engine-to-Slip Dynamics for Traction Control Applications in a Sport Motorbike. <i>European Journal of Control</i> , <b>2010</b> , 16, 88-108	2.5	32
123	Road-Departure Prevention in an Emergency Obstacle Avoidance Situation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2014</b> , 44, 621-629	7.3	30
122	Human-in-the-Loop Bicycle Control via Active Heart Rate Regulation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1029-1040	4.8	27
121	Nonlinear Pressure Control for BBW Systems via Dead-Zone and Antiwindup Compensation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1419-1431	4.8	26
120	Designing On-Demand Four-Wheel-Drive Vehicles via Active Control of the Central Transfer Case. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2010</b> , 11, 931-941	6.1	26
119	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 817-829	4.8	24
118	On adaptive electronic throttle control for sport motorcycles. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 42-53	3.9	24

117	A Robust Steering Assistance System for Road Departure Avoidance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 1953-1960	6.8	23
116	On the Discretization of Linear Fractional Representations of LPV Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 1473-1489	4.8	23
115	Active braking control of two-wheeled vehicles on curves. <i>International Journal of Vehicle Autonomous Systems</i> , <b>2009</b> , 7, 243	0.4	22
114	Active Adaptive Battery Aging Management for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 258-269	6.8	22
113	Vehicle sideslip estimator using load sensing bearings. <i>Control Engineering Practice</i> , <b>2016</b> , 54, 46-57	3.9	22
112	Traction-Control-Oriented State Estimation for Motorcycles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 2400-2407	4.8	21
111	Single-Track Vehicle Dynamics Control: State of the Art and Perspective. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1521-1532	5.5	21
110	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1003-1020	4.8	21
109	Adaptive-robust friction compensation in a hybrid brake-by-wire actuator. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2014</b> , 228, 769-786 <sup>1</sup>		20
108	Shared control for road departure prevention <b>2011</b> ,		20
107	Optimal energy management in series hybrid electric bicycles. <i>Automatica</i> , <b>2017</b> , 81, 96-106	5.7	19
106	Direct data-driven control of linear time-delay systems. <i>Asian Journal of Control</i> , <b>2012</b> , 14, 652-663	1.7	19
105	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 762-771	6.1	18
104	Self-sustaining strategy for a hybrid electric bike <b>2013</b> ,		18
103	Load sensing bearing based road-tyre friction estimation considering combined tyre slip. <i>Mechatronics</i> , <b>2016</b> , 39, 136-146	3	18
102	Hazard Detection for Motorcycles via Accelerometers: A Self-Organizing Map Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3609-3620	10.2	17
101	Robust Vehicle Sideslip Estimation Based on Kinematic Considerations. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 14855-14860	0.7	14
100	$\{\text{rm NO}\}_{\text{rm x}}\}$ Estimation in Diesel Engines via In-Cylinder Pressure Measurement. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 396-403	4.8	14

99	Electronic Stability Control for Powered Two-Wheelers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 265-272	4.8	14
98	Chronic treatment with pirenzepine decreases growth hormone secretion in insulin-dependent diabetes mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1989</b> , 68, 392-6	5.6	14
97	Sliding mode-based lateral vehicle dynamics control using tyre force measurements. <i>Vehicle System Dynamics</i> , <b>2015</b> , 53, 1599-1619	2.8	13
96	Torque Vectoring for High-Performance Electric Vehicles: An Efficient MPC Calibration <b>2020</b> , 4, 725-730		13
95	Single-Sensor Control Strategies for Semi-Active Steering Damper Control in Two-Wheeled Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 813-820	6.8	13
94	Bilateral Control of SeNZAA Series Hybrid Electric Bicycle. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 864-874	4.8	11
93	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2013</b> , 14, 1849-1859	6.1	11
92	Spacecraft attitude dynamics and control in the presence of large magnetic residuals. <i>Control Engineering Practice</i> , <b>2009</b> , 17, 456-468	3.9	11
91	Model-Based Estimation of Lithium Concentrations and Temperature in Batteries Using Soft-Constrained Dual Unscented Kalman Filtering. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 926-933	4.8	11
90	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 189-199	4.8	10
89	Motorcycle Dynamics <b>2014</b> , 1-42		10
88	Optimal energy management in series hybrid electric bicycles <b>2015</b> ,		10
87	Virtual Reference Feedback Tuning of Internal Model Controllers <b>2010</b> ,		10
86	Electronic throttle control for ride-by-wire in sport motorcycles <b>2008</b> ,		10
85	Road Slope Estimation in Bicycles without Torque Measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 6295-6300		9
84	Enhancing active safety of two-wheeled vehicles via electronic stability control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 638-643		9
83	An LPV Approach to Autonomous Vehicle Path Tracking in the Presence of Steering Actuation Nonlinearities. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1766-1774	4.8	9
82	<b>2015</b> ,		8

81	A haptic-based, safety-oriented, braking assistance system for road bicycles <b>2017,</b>		8
80	<b>2009,</b>		8
79	<b>2013,</b>		7
78	Control-Oriented Vehicle Attitude Estimation With Online Sensors Bias Compensation <b>2009,</b>		7
77	Combined battery SOC/SOH estimation using a nonlinear adaptive observer <b>2015,</b>		6
76	<b>2010,</b>		6
75	Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles <b>2009,</b>		6
74	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 3184-3193	6.1	6
73	HammersteinWiener modelling of a magneto-rheological dampers considering the magnetization dynamics. <i>Control Engineering Practice</i> , <b>2021</b> , 112, 104829	3.9	6
72	Cyclist Heart Rate Control via a Continuously Varying Transmission. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 912-917		5
71	Active Control of Aerodynamic Surfaces for Ride Control in Sport Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 7553-7558		5
70	Accelerometer-based data-driven hazard detection and classification for motorcycles <b>2014,</b>		5
69	Advantages of rear steer in LTI and LPV vehicle stability control <b>2013,</b>		5
68	Towards Electronic Stability Control for Two-Wheeled Vehicles: A Preliminary Study <b>2010,</b>		5
67	Force-Based ABS Control Using Lateral Force Measurement <b>2011,</b>		5
66	An efficient control oriented modeling approach for Lithium ion cells <b>2012,</b>		5
65	A new approach to the design of coordinated road departure avoidance systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , <b>2012</b> , 226, 45-60	0.9	5
64	On the Periodic Noise Affecting Wheel Speed Measurement*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 1695-1700		5

63	Longitudinal Velocity Estimation in Single-Track Vehicles*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 1701-1706		5
62	An Anti-Lock Braking System for Bicycles <b>2018</b> ,		5
61	HLControl with look-ahead for lane keeping in autonomous vehicles <b>2017</b> ,		4
60	Solving Algebraic Riccati Equation real time for Integrated Vehicle Dynamics Control <b>2012</b> ,		4
59	Lateral vehicle dynamics control based on tyre utilization coefficients and tyre force measurements <b>2013</b> ,		4
58	Improving high speed road-holding using actively controlled aerodynamic surfaces <b>2013</b> ,		4
57	Design of an Adaptive Throttle-by-Wire Control System for a Sport Motorbike. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 4785-4790		4
56	On the performance increase of wheel deceleration control through force sensing <b>2010</b> ,		4
55	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles <b>2009</b> ,		4
54	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 1858-1867	5.5	4
53	Design and Validation of a Full Body Control Semi-Active Suspension Strategy for a Supercar. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 667-672	0.7	3
52	Two-wheeled vehicles black-box sideslip angle estimation <b>2017</b> ,		3
51	Real-time pedaling rate estimation via wheel speed filtering. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 6010-6015	0.7	3
50	<b>2015</b> ,		3
49	<b>2013</b> ,		3
48	Linear, Parameter-Varying wheel slip control for two-wheeled vehicles <b>2008</b> ,		3
47	Experimental Validation of a Hierarchical Suspension Control via MR Damper. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14401-14406	0.7	3
46	Efficient Control-Oriented Coupled Electrochemical Thermal Modeling of Li-Ion Cells. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 7024-7033	8.9	3

45	Adaptive Ultrasound-Based Tractor Localization for Semi-Autonomous Vineyard Operations. <i>Agronomy</i> , <b>2021</b> , 11, 287	3.6	3
44	Battery aging management for Fully Electric Vehicles <b>2018</b> ,		3
43	Sliding mode control for LPV systems <b>2016</b> ,		2
42	Real-time cycling cadence estimation via wheel speed measurement. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2018</b> , 32, 1052-1066	2.8	2
41	Control-oriented coupled electrochemical thermal model for Li-Ion batteries <b>2017</b> ,		2
40	A soft-constrained unscented Kalman filter estimator for Li-ion cells electrochemical model <b>2017</b> ,		2
39	Wheelie detection for single-track vehicles <b>2013</b> ,		2
38	Control-Oriented Modeling of Motorcycle Dynamics*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 769-774		2
37	Autonomous Control of Riderless Motorcycles 293-318		2
36	Vehicle sideslip estimation via kernel-based LPV identification: Theory and experiments. <i>Automatica</i> , <b>2020</b> , 122, 109237	5.7	2
35	Experimental Validation of an Antilock Braking System for Snowmobiles With Lateral Stability Considerations. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 705-712	4.8	2
34	Modeling of gas exchange dynamics using cycle-ergometer tests. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 349-354	0.7	2
33	Experimental automatic calibration of a semi-active suspension controller via Bayesian Optimization. <i>Control Engineering Practice</i> , <b>2021</b> , 112, 104826	3.9	2
32	Design of a Charge-Sustaining Energy Management System for a Free-Floating Electric Shared Bicycle. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-13	4.8	2
31	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 9554-9563	6.8	1
30	Coordinated lateral and longitudinal vehicle dynamics control of a scale RC vehicle <b>2015</b> ,		1
29	Friction State Classification Based on Vehicle Inertial Measurements. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 72-77	0.7	1
28	Vehicle yaw rate control using tyre force measurements <b>2015</b> ,		1

27	An energy-driven road-to-driver assistance system for intersections <b>2015</b> ,		1
26	Modeling and speed limitation control of an electric kick scooter <b>2015</b> ,		1
25	Nonlinear Modeling and Control of a Dual-Stage Hybrid Ride-by-Wire Throttle Body for a Sport Motorbike <b>2009</b> ,		1
24	Rapid virtual prototyping and dynamics analysis of a common rail injection system for gasoline engines. <i>International Journal of Vehicle Systems Modelling and Testing</i> , <b>2009</b> , 4, 17	0	1
23	Is Charge Sustaining Achievable in Electric Free-Floating Bicycle Sharing? <b>2020</b> ,		1
22	Estimation Problems in Two-Wheeled Vehicles319-344		1
21	Modeling and analysis of a bicycle equipped with in-wheel suspensions. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 155, 107548	7.8	1
20	Head-up Displays for Augmented Reality Applications in Racing Vehicles: a Feasibility Study <b>2019</b> ,		1
19	Mixed-kinematic body sideslip angle estimator for high performance cars <b>2018</b> ,		1
18	Enhancing skyhook for semi-active suspension control via machine learning. <i>IFAC Journal of Systems and Control</i> , <b>2021</b> , 17, 100161	0.9	1
17	Semi-Active Steering Damper Control for Two-Wheeled Vehicles243-269		1
16	The Optimal Manoeuvre119-154		1
15	Cyclist's Riding Style Assessment via Inertial Measurement. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 994-999	0.7	0
14	Flexible Pricing Strategies in Electric Free-Floating Bicycle Sharing. <i>IEEE Access</i> , <b>2021</b> , 9, 152972-152983	3.5	0
13	Closed-loop Battery Aging Management for Electric Vehicles. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14199-14204	0.7	0
12	Model Predictive Control of High-Performance Braking Systems: A Force-Based Approach <b>2022</b> , 6, 2383-2388		0
11	Linear Parameter-Varying System Identification: The Subspace Approach. <i>Lecture Notes in Control and Information Sciences</i> , <b>2012</b> , 53-65		0.5
10	Experimental Identification of Rear Wheel Slip Dynamics of a Motorbike. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 1229-1234		



- 9 Measuring Urban Sidewalk Practicability: a Sidewalk Robot Feasibility Index. *IFAC-PapersOnLine*, **2020**, 53, 15053-15058 0.7
- 8 On Optimal Control of Multichamber Suspensions. *IFAC-PapersOnLine*, **2020**, 53, 14444-14449 0.7
- 7 LiDAR Based Obstacle detection for Snow Groomers. *IFAC-PapersOnLine*, **2020**, 53, 15469-15474 0.7
- 6 On Vehicle Pitch Estimation via solid-state LIDAR. *IFAC-PapersOnLine*, **2020**, 53, 13904-13909 0.7
- 5 Extended target tracking for autonomous street crossing. *IFAC-PapersOnLine*, **2020**, 53, 15440-15445 0.7
- 4 Traction Control Systems Design: A Systematic Approach 198-220
- 3 Identification and Analysis of Motorcycle Engine-to-Slip Dynamics 59-81
- 2 A Virtual-Reality Framework for the Hardware-in-the-Loop Motorcycle Simulation 183-195
- 1 An Efficient Eco-Planner for Autonomous Vehicles with Focus on Passengers Comfort. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1 6.8