

Matteo Corno

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8447207/matteo-corno-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Model Predictive Control of High-Performance Braking Systems: A Force-Based Approach 2022 , 6, 2383-2388		0
133	An Efficient Eco-Planner for Autonomous Vehicles with Focus on Passengers Comfort. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	
132	Flexible Pricing Strategies in Electric Free-Floating Bicycle Sharing. <i>IEEE Access</i> , 2021 , 9, 152972-152983	3.5	0
131	Modeling and analysis of a bicycle equipped with in-wheel suspensions. <i>Mechanical Systems and Signal Processing</i> , 2021 , 155, 107548	7.8	1
130	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> , 2021 , 29, 926-933	4.8	11
129	Efficient Control-Oriented Coupled Electrochemical Thermal Modeling of Li-Ion Cells. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 7024-7033	8.9	3
128	An LPV Approach to Autonomous Vehicle Path Tracking in the Presence of Steering Actuation Nonlinearities. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1766-1774	4.8	9
127	Adaptive Ultrasound-Based Tractor Localization for Semi-Autonomous Vineyard Operations. <i>Agronomy</i> , 2021 , 11, 287	3.6	3
126	Experimental automatic calibration of a semi-active suspension controller via Bayesian Optimization. <i>Control Engineering Practice</i> , 2021 , 112, 104826	3.9	2
125	Hammerstein-Wiener modelling of a magneto-rheological dampers considering the magnetization dynamics. <i>Control Engineering Practice</i> , 2021 , 112, 104829	3.9	6
124	Enhancing skyhook for semi-active suspension control via machine learning. <i>IFAC Journal of Systems and Control</i> , 2021 , 17, 100161	0.9	1
123	Design of a Charge-Sustaining Energy Management System for a Free-Floating Electric Shared Bicycle. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	2
122	Torque Vectoring for High-Performance Electric Vehicles: An Efficient MPC Calibration		13
121	Measuring Urban Sidewalk Practicability: a Sidewalk Robot Feasibility Index. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15053-15058	0.7	
120	Closed-loop Battery Aging Management for Electric Vehicles. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14199-14204	0.7	0
119	On Optimal Control of Multichamber Suspensions. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14444-14449	0.7	
118	Is Charge Sustaining Achievable in Electric Free-Floating Bicycle Sharing?		1

117	LiDAR Based Obstacle detection for Snow Groomers. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15469-15474	0.7	
116	On Vehicle Pitch Estimation via solid-state LIDAR. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13904-13909	0.7	
115	Extended target tracking for autonomous street crossing. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15440-15445	0.7	
114	Experimental Validation of a Hierarchical Suspension Control via MR Damper. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14401-14406	0.7	3
113	Active Adaptive Battery Aging Management for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 258-269	6.8	22
112	Vehicle sideslip estimation via kernel-based LPV identification: Theory and experiments. <i>Automatica</i> , 2020 , 122, 109237	5.7	2
111	Experimental Validation of an Antilock Braking System for Snowmobiles With Lateral Stability Considerations. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 705-712	4.8	2
110	. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 9554-9563	6.8	1
109	Design and Validation of a Full Body Control Semi-Active Suspension Strategy for a Supercar. <i>IFAC-PapersOnLine</i> , 2019 , 52, 667-672	0.7	3
108	Friction State Classification Based on Vehicle Inertial Measurements. <i>IFAC-PapersOnLine</i> , 2019 , 52, 72-77	0.7	1
107	Head-up Displays for Augmented Reality Applications in Racing Vehicles: a Feasibility Study 2019 ,		1
106	Real-time cycling cadence estimation via wheel speed measurement. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018 , 32, 1052-1066	2.8	2
105	Mixed-kinematic body sideslip angle estimator for high performance cars 2018 ,		1
104	Battery aging management for Fully Electric Vehicles 2018 ,		3
103	Modeling of gas exchange dynamics using cycle-ergometer tests. <i>IFAC-PapersOnLine</i> , 2018 , 51, 349-354	0.7	2
102	An Anti-Lock Braking System for Bicycles 2018 ,		5
101	Hazard Detection for Motorcycles via Accelerometers: A Self-Organizing Map Approach. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3609-3620	10.2	17
100	Optimal energy management in series hybrid electric bicycles. <i>Automatica</i> , 2017 , 81, 96-106	5.7	19

99	Vehicle sideslip estimation: A kinematic based approach. <i>Control Engineering Practice</i> , 2017 , 67, 1-12	3.9	63
98	A haptic-based, safety-oriented, braking assistance system for road bicycles 2017 ,		8
97	HLcontrol with look-ahead for lane keeping in autonomous vehicles 2017 ,		4
96	Bilateral Control of SeNZAA Series Hybrid Electric Bicycle. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 864-874	4.8	11
95	Two-wheeled vehicles black-box sideslip angle estimation 2017 ,		3
94	Real-time pedaling rate estimation via wheel speed filtering. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6010-6015	0.7	3
93	Cyclist's Riding Style Assessment via Inertial Measurement. <i>IFAC-PapersOnLine</i> , 2017 , 50, 994-999	0.7	0
92	Robust Vehicle Sideslip Estimation Based on Kinematic Considerations. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14855-14860	0.7	14
91	Control-oriented coupled electrochemical thermal model for Li-Ion batteries 2017 ,		2
90	A soft-constrained unscented Kalman filter estimator for Li-ion cells electrochemical model 2017 ,		2
89	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 817-829	4.8	24
88	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 189-199	4.8	10
87	Sliding mode control for LPV systems 2016 ,		2
86	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 762-771	6.1	18
85	Nonlinear Pressure Control for BBW Systems via Dead-Zone and Antiwindup Compensation. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1419-1431	4.8	26
84	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1858-1867	5.5	4
83	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 3184-3193	6.1	6
82	Load sensing bearing based road-tyre friction estimation considering combined tyre slip. <i>Mechatronics</i> , 2016 , 39, 136-146	3	18

81	Vehicle sideslip estimator using load sensing bearings. <i>Control Engineering Practice</i> , 2016 , 54, 46-57	3.9	22
80	Sliding mode-based lateral vehicle dynamics control using tyre force measurements. <i>Vehicle System Dynamics</i> , 2015 , 53, 1599-1619	2.8	13
79	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1310-1319	5.5	32
78	Coordinated lateral and longitudinal vehicle dynamics control of a scale RC vehicle 2015 ,		1
77	2015 ,		8
76	Electrochemical Model-Based State of Charge Estimation for Li-Ion Cells. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 117-127	4.8	63
75	Vehicle yaw rate control using tyre force measurements 2015 ,		1
74	Human-in-the-Loop Bicycle Control via Active Heart Rate Regulation. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1029-1040	4.8	27
73	Optimal energy management in series hybrid electric bicycles 2015 ,		10
72	An energy-driven road-to-driver assistance system for intersections 2015 ,		1
71	2015 ,		3
70	Combined battery SOC/SOH estimation using a nonlinear adaptive observer 2015 ,		6
69	Modeling and speed limitation control of an electric kick scooter 2015 ,		1
68	Single-Track Vehicle Dynamics Control: State of the Art and Perspective. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1521-1532	5.5	21
67	Adaptive position-pressure control of a brake by wire actuator for sport motorcycles. <i>European Journal of Control</i> , 2014 , 20, 79-86	2.5	38
66	Road Slope Estimation in Bicycles without Torque Measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6295-6300		9
65	Motorcycle Dynamics 2014 , 1-42		10
64	Cyclist Heart Rate Control via a Continuously Varying Transmission. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 912-917		5

63	Active Control of Aerodynamic Surfaces for Ride Control in Sport Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 7553-7558		5
62	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> , 2014 , 228, 769-786 ¹		20
61	Accelerometer-based data-driven hazard detection and classification for motorcycles 2014 ,		5
60	Road-Departure Prevention in an Emergency Obstacle Avoidance Situation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 621-629	7.3	30
59	NO_x Estimation in Diesel Engines via In-Cylinder Pressure Measurement. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 396-403	4.8	14
58	Electronic Stability Control for Powered Two-Wheelers. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 265-272	4.8	14
57	Traction-Control-Oriented State Estimation for Motorcycles. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2400-2407	4.8	21
56	Data-Driven Design of Braking Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 186-193	4.8	60
55	On adaptive electronic throttle control for sport motorcycles. <i>Control Engineering Practice</i> , 2013 , 21, 42-53	3.9	24
54	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1849-1859	6.1	11
53	Lateral vehicle dynamics control based on tyre utilization coefficients and tyre force measurements 2013 ,		4
52	Self-sustaining strategy for a hybrid electric bike 2013 ,		18
51	2013 ,		3
50	Advantages of rear steer in LTI and LPV vehicle stability control 2013 ,		5
49	Improving high speed road-holding using actively controlled aerodynamic surfaces 2013 ,		4
48	2013 ,		7
47	Wheelie detection for single-track vehicles 2013 ,		2
46	Single-Sensor Control Strategies for Semi-Active Steering Damper Control in Two-Wheeled Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 813-820	6.8	13

45	A Robust Steering Assistance System for Road Departure Avoidance. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 1953-1960	6.8	23
44	On the Discretization of Linear Fractional Representations of LPV Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1473-1489	4.8	23
43	Solving Algebraic Riccati Equation real time for Integrated Vehicle Dynamics Control 2012 ,		4
42	Hybrid ABS Control Using Force Measurement. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1223-1235	4.8	47
41	Linear Parameter-Varying System Identification: The Subspace Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 53-65	0.5	
40	Direct data-driven control of linear time-delay systems. <i>Asian Journal of Control</i> , 2012 , 14, 652-663	1.7	19
39	An efficient control oriented modeling approach for Lithium ion cells 2012 ,		5
38	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> , 2012 , 226, 45-60	0.9	5
37	On the Periodic Noise Affecting Wheel Speed Measurement*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1695-1700		5
36	Longitudinal Velocity Estimation in Single-Track Vehicles*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1701-1706		5
35	Control-Oriented Modeling of Motorcycle Dynamics*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 769-774		2
34	. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1003-1020	4.8	21
33	. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 18-30	4.8	32
32	Design of an Adaptive Throttle-by-Wire Control System for a Sport Motorbike. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 4785-4790		4
31	Enhancing active safety of two-wheeled vehicles via electronic stability control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 638-643		9
30	Shared control for road departure prevention 2011 ,		20
29	Force-Based ABS Control Using Lateral Force Measurement 2011 ,		5
28	Virtual Reference Feedback Tuning of Internal Model Controllers 2010 ,		10

27	On the performance increase of wheel deceleration control through force sensing 2010 ,		4
26	Towards Electronic Stability Control for Two-Wheeled Vehicles: A Preliminary Study 2010 ,		5
25	Designing On-Demand Four-Wheel-Drive Vehicles via Active Control of the Central Transfer Case. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 931-941	6.1	26
24	Experimental Identification of Engine-to-Slip Dynamics for Traction Control Applications in a Sport Motorbike. <i>European Journal of Control</i> , 2010 , 16, 88-108	2.5	32
23	2010 ,		6
22	Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles 2009 ,		6
21	Active braking control of two-wheeled vehicles on curves. <i>International Journal of Vehicle Autonomous Systems</i> , 2009 , 7, 243	0.4	22
20	Nonlinear Modeling and Control of a Dual-Stage Hybrid Ride-by-Wire Throttle Body for a Sport Motorbike 2009 ,		1
19	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> , 2009 , 4, 17	0	1
18	Control-Oriented Vehicle Attitude Estimation With Online Sensors Bias Compensation 2009 ,		7
17	On linear-parameter-varying (LPV) slip-controller design for two-wheeled vehicles. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 1313-1336	3.6	59
16	Spacecraft attitude dynamics and control in the presence of large magnetic residuals. <i>Control Engineering Practice</i> , 2009 , 17, 456-468	3.9	11
15	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles 2009 ,		4
14	. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3347-3356	8.9	46
13	2009 ,		8
12	Experimental Identification of Rear Wheel Slip Dynamics of a Motorbike. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1229-1234		
11	Electronic throttle control for ride-by-wire in sport motorcycles 2008 ,		10
10	Linear, Parameter-Varying wheel slip control for two-wheeled vehicles 2008 ,		3

9	On optimal motorcycle braking. <i>Control Engineering Practice</i> , 2008 , 16, 644-657	3.9	72
8	Chronic treatment with pirenzepine decreases growth hormone secretion in insulin-dependent diabetes mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1989 , 68, 392-6	5.6	14
7	Estimation Problems in Two-Wheeled Vehicles319-344		1
6	Autonomous Control of Riderless Motorcycles293-318		2
5	Traction Control Systems Design: A Systematic Approach198-220		
4	Identification and Analysis of Motorcycle Engine-to-Slip Dynamics59-81		
3	A Virtual-Reality Framework for the Hardware-in-the-Loop Motorcycle Simulation183-195		
2	Semi-Active Steering Damper Control for Two-Wheeled Vehicles243-269		1
1	The Optimal Manoeuvre119-154		1