Matteo Corno

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8447207/publications.pdf

Version: 2024-02-01

144 papers	2,211 citations	218592 26 h-index	302012 39 g-index
152 all docs	152 docs citations	152 times ranked	1385 citing authors

#	Article	IF	Citations
1	Model Predictive Control of High-Performance Braking Systems: A Force-Based Approach. , 2022, 6, 2383-2388.		6
2	An Efficient Eco-Planner for Autonomous Vehicles With Focus on Passengers Comfort. IEEE Transactions on Vehicular Technology, 2022, 71, 6984-6995.	3.9	4
3	An Optimal Battery Sizing Co-Design Approach for Electric Racing Cars. , 2022, 6, 3074-3079.		3
4	Model-Based Estimation of Lithium Concentrations and Temperature in Batteries Using Soft-Constrained Dual Unscented Kalman Filtering. IEEE Transactions on Control Systems Technology, 2021, 29, 926-933.	3.2	30
5	Efficient Control-Oriented Coupled Electrochemical Thermal Modeling of Li-Ion Cells. IEEE Transactions on Industrial Electronics, 2021, 68, 7024-7033.	5.2	10
6	An LPV Approach to Autonomous Vehicle Path Tracking in the Presence of Steering Actuation Nonlinearities. IEEE Transactions on Control Systems Technology, 2021, 29, 1766-1774.	3.2	28
7	Adaptive Ultrasound-Based Tractor Localization for Semi-Autonomous Vineyard Operations. Agronomy, 2021, 11, 287.	1.3	9
8	Modeling and analysis of a bicycle equipped with in-wheel suspensions. Mechanical Systems and Signal Processing, 2021, 155, 107548.	4.4	2
9	Experimental automatic calibration of a semi-active suspension controller via Bayesian Optimization. Control Engineering Practice, 2021, 112, 104826.	3.2	13
10	Hammersteinâ€"Wiener modelling of a magneto-rheological dampers considering the magnetization dynamics. Control Engineering Practice, 2021, 112, 104829.	3.2	14
11	Enhancing skyhook for semi-active suspension control via machine learning. IFAC Journal of Systems and Control, 2021, 17, 100161.	1.1	5
12	Design of a Charge-Sustaining Energy Management System for a Free-Floating Electric Shared Bicycle. IEEE Transactions on Control Systems Technology, 2021, , 1-13.	3.2	3
13	Linear Parameter Varying Path Tracking Control for Over-Actuated Electric Vehicles. Frontiers in Control Engineering, 2021, 2, .	0.4	1
14	Direct Longitudinal Force Feedback for High-Performance Vehicle Dynamics Control Systems. , 2021, , .		2
15	Flexible Pricing Strategies in Electric Free-Floating Bicycle Sharing. IEEE Access, 2021, 9, 152972-152983.	2.6	1
16	Black-Box Model-Based Active Damping of Driveline Oscillations. , 2021, , .		0
17	A concurrent controllers integration strategy to enhance the riding experience in bicycle driveline emulators. , 2021, , .		1
18	Experimental Validation of an Antilock Braking System for Snowmobiles With Lateral Stability Considerations. IEEE Transactions on Control Systems Technology, 2020, 28, 705-712.	3.2	3

#	Article	IF	Citations
19	Active Adaptive Battery Aging Management for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 258-269.	3.9	49
20	Vehicle sideslip estimation via kernel-based LPV identification: Theory and experiments. Automatica, 2020, 122, 109237.	3.0	5
21	Charge sustaining hybrid electric bikes in free-floating sharing service. , 2020, , .		1
22	Torque Vectoring for High-Performance Electric Vehicles: An Efficient MPC Calibration. , 2020, 4, 725-730.		36
23	Experimental Validation of a Hierarchical Suspension Control via MR Damper. IFAC-PapersOnLine, 2020, 53, 14401-14406.	0.5	6
24	LiDAR Based Obstacle detection for Snow Groomers. IFAC-PapersOnLine, 2020, 53, 15469-15474.	0.5	0
25	On Vehicle Pitch Estimation via solid-state LIDAR. IFAC-PapersOnLine, 2020, 53, 13904-13909.	0.5	1
26	Extended target tracking for autonomous street crossing. IFAC-PapersOnLine, 2020, 53, 15440-15445.	0.5	1
27	Measuring Urban Sidewalk Practicability: a Sidewalk Robot Feasibility Index. IFAC-PapersOnLine, 2020, 53, 15053-15058.	0.5	1
28	Closed-loop Battery Aging Management for Electric Vehicles. IFAC-PapersOnLine, 2020, 53, 14199-14204.	0.5	2
29	On Optimal Control of Multichamber Suspensions. IFAC-PapersOnLine, 2020, 53, 14444-14449.	0.5	4
30	Is Charge Sustaining Achievable in Electric Free-Floating Bicycle Sharing?. , 2020, , .		1
31	A Yaw Rate Based Stability Control for Under-Actuated Vehicles. , 2020, , .		2
32	Friction State Classification Based on Vehicle Inertial Measurements. IFAC-PapersOnLine, 2019, 52, 72-77.	0.5	5
33	Predictive Cylinder Deactivation Control for Large Displacement Automotive Engines. IEEE Transactions on Vehicular Technology, 2019, 68, 9554-9563.	3.9	2
34	Design and Validation of a Full Body Control Semi-Active Suspension Strategy for a Supercar. IFAC-PapersOnLine, 2019, 52, 667-672.	0.5	13
35	Head-up Displays for Augmented Reality Applications in Racing Vehicles: a Feasibility Study. , 2019, , .		2
36	Mixed-kinematic body sideslip angle estimator for high performance cars. , 2018, , .		4

#	Article	IF	Citations
37	Battery aging management for Fully Electric Vehicles. , 2018, , .		4
38	Modeling of gas exchange dynamics using cycle-ergometer tests. IFAC-PapersOnLine, 2018, 51, 349-354.	0.5	4
39	Modeling and Control of a Servo Mechanical Press. , 2018, , .		0
40	Inertial-Based Control of an Electrically Assisted Pushcart. , 2018, , .		0
41	An Anti-Lock Braking System for Bicycles. , 2018, , .		7
42	Realâ€time cycling cadence estimation via wheel speed measurement. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1052-1066.	2.3	5
43	A mass-preserving Sliding Mode Observer for Li-ion cells electrochemical model. , 2018, , .		1
44	Hazard Detection for Motorcycles via Accelerometers: A Self-Organizing Map Approach. IEEE Transactions on Cybernetics, 2017, 47, 3609-3620.	6.2	23
45	Optimal energy management in series hybrid electric bicycles. Automatica, 2017, 81, 96-106.	3.0	36
46	Vehicle sideslip estimation: A kinematic based approach. Control Engineering Practice, 2017, 67, 1-12.	3.2	95
47	A haptic-based, safety-oriented, braking assistance system for road bicycles. , 2017, , .		10
48	H<inf>âˆž</inf> control with look-ahead for lane keeping in autonomous vehicles. , 2017, , .		14
49	Bilateral Control of SeNZAâ€"A Series Hybrid Electric Bicycle. IEEE Transactions on Control Systems Technology, 2017, 25, 864-874.	3.2	22
50	Two-wheeled vehicles black-box sideslip angle estimation. , 2017, , .		5
51	Real-time pedaling rate estimation via wheel speed filtering. IFAC-PapersOnLine, 2017, 50, 6010-6015.	0.5	3
52	Cyclistâ€™s Riding Style Assessment via Inertial Measurement. IFAC-PapersOnLine, 2017, 50, 994-999.	0.5	1
53	Robust Vehicle Sideslip Estimation Based on Kinematic Considerations. IFAC-PapersOnLine, 2017, 50, 14855-14860.	0.5	21
54	Analysis of a vibrotactile actuator for bicycle handlebars. , 2017, , .		0

#	Article	IF	Citations
55	Control-oriented coupled electrochemical thermal model for Li-Ion batteries. , 2017, , .		2
56	A soft-constrained unscented Kalman filter estimator for Li-ion cells electrochemical model. , 2017, , .		4
57	Longitudinal and Lateral Dynamics Evaluation of an Anti-Lock Braking System for Trail Snowmobiles. , 2017, , .		1
58	Differential braking-based anti-rollover control for non-tilting narrow-track vehicles. , 2017, , .		5
59	Design and control of an electrically assisted kick scooter. , 2016, , .		1
60	Design and Control of an All-in-the-Wheel Assisted Kick Scooter. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1858-1867.	3.7	6
61	An IMU-Driven Rider-on-Saddle Detection System for Electric-Power-Assisted Bicycles. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3184-3193.	4.7	7
62	Load sensing bearing based road-tyre friction estimation considering combined tyre slip. Mechatronics, 2016, 39, 136-146.	2.0	26
63	Vehicle sideslip estimator using load sensing bearings. Control Engineering Practice, 2016, 54, 46-57.	3.2	25
64	An IMU-driven rider-on-saddle detection system for Electric Power Assisted bicycles. , 2016, , .		0
65	Sliding mode control for LPV systems. , 2016, , .		2
66	Data-Driven Online Speed Optimization in Autonomous Sailboats. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 762-771.	4.7	32
67	Nonlinear Pressure Control for BBW Systems via Dead-Zone and Antiwindup Compensation. IEEE Transactions on Control Systems Technology, 2016, 24, 1419-1431.	3.2	45
68	Design, Control, and Validation of a Charge-Sustaining Parallel Hybrid Bicycle. IEEE Transactions on Control Systems Technology, 2016, 24, 817-829.	3.2	38
69	Performance Assessment of Active Aerodynamic Surfaces for Comfort and Handling Optimization in Sport Cars. IEEE Transactions on Control Systems Technology, 2016, 24, 189-199.	3.2	16
70	Vehicle yaw rate control using tyre force measurements. , 2015, , .		5
71	Human-in-the-Loop Bicycle Control via Active Heart Rate Regulation. IEEE Transactions on Control Systems Technology, 2015, 23, 1029-1040.	3.2	46
72	Optimal energy management in series hybrid electric bicycles. , 2015, , .		11

#	Article	IF	Citations
73	An energy-driven road-to-driver assistance system for intersections. , 2015, , .		3
74	Traction control oriented torque-to-slip identification for powered two-wheelers. , 2015, , .		3
75	Combined battery SOC/SOH estimation using a nonlinear adaptive observer. , 2015, , .		9
76	Modeling and speed limitation control of an electric kick scooter. , 2015, , .		3
77	Single-Track Vehicle Dynamics Control: State of the Art and Perspective. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1521-1532.	3.7	30
78	Sliding mode-based lateral vehicle dynamics control using tyre force measurements. Vehicle System Dynamics, 2015, 53, 1599-1619.	2.2	17
79	Adaptive Cascade Control of a Brake-By-Wire Actuator for Sport Motorcycles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1310-1319.	3.7	56
80	Coordinated lateral and longitudinal vehicle dynamics control of a scale RC vehicle. , 2015, , .		1
81	Vehicle sideslip estimation using tyre force measurements. , 2015, , .		1
82	Human machine interfacing issues in SeNZA, a Series Hybrid Electric Bicycle. , 2015, , .		11
83	Electrochemical Model-Based State of Charge Estimation for Li-Ion Cells. IEEE Transactions on Control Systems Technology, 2015, 23, 117-127.	3.2	104
84	Adaptive-robust friction compensation in a hybrid brake-by-wire actuator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 769-786.	0.7	34
85	Accelerometer-based data-driven hazard detection and classification for motorcycles. , 2014, , .		6
86	Road-Departure Prevention in an Emergency Obstacle Avoidance Situation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 621-629.	5.9	37
87	${m NO}_{m x}$ Estimation in Diesel Engines via In-Cylinder Pressure Measurement. IEEE Transactions on Control Systems Technology, 2014, 22, 396-403.	3.2	17
88	Deadzone compensation and anti-windup design for brake-by-wire systems. , 2014, , .		2
89	Electronic Stability Control for Powered Two-Wheelers. IEEE Transactions on Control Systems Technology, 2014, 22, 265-272.	3.2	19
90	Adaptive positionâ€"pressure control of a brake by wire actuator for sport motorcycles. European Journal of Control, 2014, 20, 79-86.	1.6	53

#	Article	IF	Citations
91	Road Slope Estimation in Bicycles without Torque Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6295-6300.	0.4	18
92	Cyclist Heart Rate Control via a Continuously Varying Transmission. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 912-917.	0.4	8
93	Active Control of Aerodynamic Surfaces for Ride Control in Sport Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7553-7558.	0.4	10
94	Traction-Control-Oriented State Estimation for Motorcycles. IEEE Transactions on Control Systems Technology, 2013, 21, 2400-2407.	3.2	29
95	Data-Driven Design of Braking Control Systems. IEEE Transactions on Control Systems Technology, 2013, 21, 186-193.	3.2	75
96	On adaptive electronic throttle control for sport motorcycles. Control Engineering Practice, 2013, 21, 42-53.	3.2	33
97	Design, Analysis, and Validation of a Haptic-Based Driver Support System for Traction Control. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1849-1859.	4.7	15
98	Lateral vehicle dynamics control based on tyre utilization coefficients and tyre force measurements. , 2013, , .		7
99	Self-sustaining strategy for a hybrid electric bike. , 2013, , .		22
100	A diffusive electro-equivalent Li-ion battery model. , 2013, , .		5
101	A haptic-based traction control system. , 2013, , .		0
102	Advantages of rear steer in LTI and LPV vehicle stability control. , 2013, , .		8
103	Improving high speed road-holding using actively controlled aerodynamic surfaces. , 2013, , .		6
104	Pedaling torque reconstruction for half pedaling sensor. , 2013, , .		15
105	Wheelie detection for single-track vehicles. , 2013, , .		2
106	An efficient control oriented modeling approach for Lithium ion cells. , 2012, , .		6
107	A new approach to the design of coordinated road departure avoidance systems. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2012, 226, 45-60.	0.5	5
108	On the Periodic Noise Affecting Wheel Speed Measurement. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1695-1700.	0.4	9

#	Article	IF	Citations
109	Longitudinal Velocity Estimation in Single-Track Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1701-1706.	0.4	7
110	Control-Oriented Modeling of Motorcycle Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 769-774.	0.4	4
111	A Robust Steering Assistance System for Road Departure Avoidance. IEEE Transactions on Vehicular Technology, 2012, 61, 1953-1960.	3.9	30
112	On the Discretization of Linear Fractional Representations of LPV Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1473-1489.	3.2	27
113	Solving Algebraic Riccati Equation real time for Integrated Vehicle Dynamics Control. , 2012, , .		6
114	Hybrid ABS Control Using Force Measurement. IEEE Transactions on Control Systems Technology, 2012, 20, 1223-1235.	3.2	65
115	Linear Parameter-Varying System Identification: The Subspace Approach. Lecture Notes in Control and Information Sciences, 2012, , 53-65.	0.6	0
116	Direct dataâ€driven control of linear timeâ€delay systems. Asian Journal of Control, 2012, 14, 652-663.	1.9	30
117	Single-Sensor Control Strategies for Semi-Active Steering Damper Control in Two-Wheeled Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 813-820.	3.9	17
118	Semi-Active Steering Damper Control in Two-Wheeled Vehicles. IEEE Transactions on Control Systems Technology, 2011, 19, 1003-1020.	3.2	29
119	Design and Validation of a Gain-Scheduled Controller for the Electronic Throttle Body in Ride-by-Wire Racing Motorcycles. IEEE Transactions on Control Systems Technology, 2011, 19, 18-30.	3.2	40
120	Design of an Adaptive Throttle-by-Wire Control System for a Sport Motorbike. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4785-4790.	0.4	7
121	Enhancing active safety of two-wheeled vehicles via electronic stability control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 638-643.	0.4	11
122	Shared control for road departure prevention. , 2011, , .		24
123	Force-Based ABS Control Using Lateral Force Measurement. , 2011, , .		6
124	Virtual Reference Feedback Tuning of Internal Model Controllers. , 2010, , .		10
125	On the performance increase of wheel deceleration control through force sensing. , 2010, , .		5
126	Towards Electronic Stability Control for Two-Wheeled Vehicles: A Preliminary Study. , 2010, , .		6

#	Article	IF	Citations
127	Designing On-Demand Four-Wheel-Drive Vehicles via Active Control of the Central Transfer Case. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 931-941.	4.7	32
128	Experimental Identification of Engine-to-Slip Dynamics for Traction Control Applications in a Sport Motorbike. European Journal of Control, 2010, 16, 88-108.	1.6	33
129	Design of steering angle observers for the active control of two-wheeled vehicles. , 2010, , .		6
130	Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles. , 2009, , .		7
131	Active braking control of two-wheeled vehicles on curves. International Journal of Vehicle Autonomous Systems, 2009, 7, 243.	0.2	28
132	Nonlinear Modeling and Control of a Dual-Stage Hybrid Ride-by-Wire Throttle Body for a Sport Motorbike. , 2009, , .		2
133	Rapid virtual prototyping and dynamics analysis of a common rail injection system for gasoline engines. International Journal of Vehicle Systems Modelling and Testing, 2009, 4, 17.	0.1	2
134	Control-Oriented Vehicle Attitude Estimation With Online Sensors Bias Compensation. , 2009, , .		10
135	On linearâ€parameterâ€varying (LPV) slipâ€controller design for twoâ€wheeled vehicles. International Journal of Robust and Nonlinear Control, 2009, 19, 1313-1336.	2.1	70
136	Spacecraft attitude dynamics and control in the presence of large magnetic residuals. Control Engineering Practice, 2009, 17, 456-468.	3.2	12
137	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles. , 2009, , .		5
138	Traction Control for Ride-by-Wire Sport Motorcycles: A Second-Order Sliding Mode Approach. IEEE Transactions on Industrial Electronics, 2009, 56, 3347-3356.	5.2	56
139	Advanced yaw control of four-wheeled vehicles via rear active differential braking. , 2009, , .		11
140	Experimental Identification of Rear Wheel Slip Dynamics of a Motorbike. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1229-1234.	0.4	0
141	On optimal motorcycle braking. Control Engineering Practice, 2008, 16, 644-657.	3.2	81
142	Electronic throttle control for ride-by-wire in sport motorcycles. , 2008, , .		15
143	Linear, Parameter-Varying wheel slip control for two-wheeled vehicles. , 2008, , .		6
144	Chronic Treatment With Pirenzepine Decreases Growth Hormone Secretion in Insulin-Dependent Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 1989, 68, 392-396.	1.8	14