

# Mara Tanelli

## List of Publications by Citations

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

135  
papers

1,676  
citations

22  
h-index

35  
g-index

148  
ext. papers

1,998  
ext. citations

3.1  
avg, IF

4.84  
L-index

#	Paper	IF	Citations
135	Active Braking Control Systems Design for Vehicles. <i>Advances in Industrial Control</i> , <b>2010</b> ,	0.3	104
134	Robust nonlinear output feedback control for brake by wire control systems. <i>Automatica</i> , <b>2008</b> , 44, 1078-1087	5.1	79
133	Mixed Slip-Deceleration Control in Automotive Braking Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2006</b> , 129, 20-31	1.6	74
132	On optimal motorcycle braking. <i>Control Engineering Practice</i> , <b>2008</b> , 16, 644-657	3.9	72
131	Torque blending and wheel slip control in EVs with in-wheel motors. <i>Vehicle System Dynamics</i> , <b>2012</b> , 50, 71-94	2.8	70
130	Real-time identification of tire-road friction conditions. <i>IET Control Theory and Applications</i> , <b>2009</b> , 3, 891-906	2.5	67
129	Data-Driven Design of Braking Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 186-193	4.8	60
128	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 3347-3356	8.9	46
127	Almost Sure Stabilization of Uncertain Continuous-Time Markov Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 195-201	5.9	41
126	Switched model predictive control for performance enhancement. <i>International Journal of Control</i> , <b>2008</b> , 81, 1859-1869	1.5	39
125	New Regressors for the Direct Identification of Tire Deformation in Road Vehicles Via [h-Tire] Accelerometers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 769-780	4.8	38
124	Roll angle estimation in two-wheeled vehicles. <i>IET Control Theory and Applications</i> , <b>2009</b> , 3, 20-32	2.5	37
123	Switched/time-based adaptation for second-order sliding mode control. <i>Automatica</i> , <b>2016</b> , 64, 126-132	5.7	36
122	Combining Slip and Deceleration Control for Brake-by-wire Control Systems: A Sliding-mode Approach. <i>European Journal of Control</i> , <b>2007</b> , 13, 593-611	2.5	35
121	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 18-30	4.8	32
120	Enhancing Robustness and Performance via Switched Second Order Sliding Mode Control. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 962-974	5.9	31
119	A Smartphone-in-the-Loop Active State-of-Charge Manager for Electric Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2012</b> , 17, 454-463	5.5	29

118	Transmission control for power-shift agricultural tractors: Design and end-of-line automatic tuning. <i>Mechatronics</i> , <b>2011</b> , 21, 285-297	3	29
117	Existence, stability and robustness analysis of limit cycles in hybrid anti-lock braking systems. <i>International Journal of Control</i> , <b>2009</b> , 82, 659-678	1.5	28
116	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
115	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
114	Design of safety-oriented control allocation strategies for overactuated electric vehicles. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 1017-1046	2.8	22
113	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
112	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 1640-1649	5.2	22
111	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1003-1020	4.8	21
110	Minimum-time manoeuvring in electric vehicles with four wheel-individual-motors. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 824-846	2.8	19
109	A Security Layer for Smartphone-to-Vehicle Communication Over Bluetooth. <i>IEEE Embedded Systems Letters</i> , <b>2013</b> , 5, 34-37	1	19
108	Identification of LPV State Space Models for Autonomic Web Service Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 93-103	4.8	17
107	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2006</b> , 11, 346-357	5.5	16
106	Non-local extremum seeking control for active braking control systems <b>2006</b> ,		16
105	Longitudinal Vehicle Speed Estimation for Traction and Braking Control Systems <b>2006</b> ,		16
104	Frequency Compensation for a Self-Mixing Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 1368-1374	5.2	15
103	Electronic Stability Control for Powered Two-Wheelers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 265-272	4.8	14
102	Black-box performance models for virtualized web service applications <b>2010</b> ,		14
101	LPV model identification for power management of Web service systems <b>2008</b> ,		14

100	Minimum-Time Path-Following for Highly Redundant Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 487-501	4.8	13
99	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
98	Quantitative Driving Style Estimation for Energy-Oriented Applications in Road Vehicles <b>2013</b> ,		13
97	Switched Second-Order Sliding Mode Control with Partial Information: Theory and Application. <i>Asian Journal of Control</i> , <b>2013</b> , 15, 20-30	1.7	12
96	<b>2012</b> ,		12
95	<b>2012</b> ,		12
94	Roll angle estimation in two-wheeled vehicles <b>2008</b> ,		11
93	Model Identification for Energy-Aware Management of Web Service Systems. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 599-606	0.9	11
92	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 189-199	4.8	10
91	Combined switched/time-based adaptation in second order sliding mode control <b>2013</b> ,		10
90	Object-oriented modelling and simulation of a motorcycle. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2008</b> , 14, 79-100	1	10
89	Real-time identification of tire-road friction conditions <b>2008</b> ,		10
88	Electronic throttle control for ride-by-wire in sport motorcycles <b>2008</b> ,		10
87	Active Energy-Aware Management of Business-Process Based Applications. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 183-195	0.9	10
86	Ethogram-based automatic wild animal monitoring through inertial sensors and GPS data. <i>Ecological Informatics</i> , <b>2020</b> , 59, 101112	4.2	10
85	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
84	Limit cycles analysis in hybrid anti-lock braking systems <b>2007</b> ,		9
83	A General Framework for Switched and Variable Gain Higher Order Sliding Mode Control. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1718-1724	5.9	9

82	Switched second order sliding mode control <b>2010</b> ,		8
81	Control-oriented energy-profiling and modelling of urban electric vehicles <b>2011</b> ,		8
80	<b>2009</b> ,		8
79	Automatic crash detection system for two-wheeled vehicles: design and experimental validation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 498-503	0.7	7
78	A Flexible Architecture for Managing Vehicle Sharing Systems. <i>IEEE Embedded Systems Letters</i> , <b>2013</b> , 5, 30-33	1	7
77	Control-Oriented Vehicle Attitude Estimation With Online Sensors Bias Compensation <b>2009</b> ,		7
76	Analysing the interaction between braking control and speed estimation: The case of two-wheeled vehicles <b>2008</b> ,		7
75	Self-calibration algorithm for an IMU in two-wheeled vehicles: design and experimental validation <b>2018</b> ,		7
74	<b>2010</b> ,		6
73	Switched second order sliding mode for wheel slip control of road vehicles <b>2010</b> ,		6
72	Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles <b>2009</b> ,		6
71	Speed and acceleration controllers for a light electric two-wheeled vehicle <b>2011</b> ,		6
70	On- and off-line model identification for power management of Web service systems <b>2008</b> ,		6
69	Longitudinal vehicle speed estimation for traction and braking control systems <b>2006</b> ,		6
68	Real-time continuous estimation of dress attachment in the laser cutting process based on process emission images. <i>Journal of Laser Applications</i> , <b>2020</b> , 32, 042016	2.1	6
67	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
66	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
65	Torque allocation in electric vehicles with in-wheel motors: A performance-oriented approach <b>2013</b> ,		5

64	Towards Electronic Stability Control for Two-Wheeled Vehicles: A Preliminary Study <b>2010</b> ,		5
63	Robust Nonlinear Proportional-Integral Control for Active Braking Control Systems <b>2006</b> ,		5
62	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 1429-1440	6.1	4
61	Launch control for sport motorcycles: A clutch-based approach. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 1756-1766	3.9	4
60	Linear Parametrically Varying MPC for combined Quality of Service and energy management in Web service systems <b>2010</b> ,		4
59	Active braking control for two-wheeled vehicles via switched second order sliding modes <b>2011</b> ,		4
58	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles <b>2009</b> ,		4
57	Control-oriented analysis and quality assessment of gear shifting in motorcycles <b>2011</b> ,		4
56	Time-based switched sliding mode control for yaw rate regulation in two-wheeled vehicles <b>2012</b> ,		4
55	Characterization of Optical Sensors for Real-Time Measurement of Motorcycle Tilt Angles <b>2008</b> ,		4
54	A Control-Theoretic Approach for the Combined Management of Quality-of-Service and Energy in Service Centers <b>2010</b> , 73-96		4
53	MEMS-Enabled Retrofitting of Automobile Wheel Balancer for Automatic Unbalance Detection. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 830-840	5.5	4
52	Wheel slip control of road vehicles via switched second order sliding modes. <i>International Journal of Vehicle Design</i> , <b>2013</b> , 62, 231	2.4	3
51	Automatic end-of-line tuning for a motion inverter in agricultural tractors. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 1342-1355	3.9	3
50	Management of angular speed sensors for control at the power-zero condition of a continuously variable transmission: A describing-function approach. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2008</b> , 222, 2269-2282	1.4	3
49	On Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems		3
48	Object- Oriented Multibody Motorcycle Modelling for Control Systems Prototyping <b>2006</b> ,		3
47	Switched third-order sliding mode control <b>2016</b> ,		3

46	A Novel Crash Detection Algorithm for Two-Wheeled Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2021</b> , 6, 88-99	5	3
45	Analysis and Development of a Novel Algorithm for the In-vehicle Hand-Usage of a Smartphone <b>2018</b> ,		3
44	. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2017</b> , 47, 609-613	4.1	2
43	Online Assessment of Driving Riskiness via Smartphone-Based Inertial Measurements. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-11	6.1	2
42	Sliding mode control for LPV systems <b>2016</b> ,		2
41	Hierarchical control of overactuated vehicles via sliding mode techniques <b>2014</b> ,		2
40	Identification and control of a motorcycle electro-hydraulic clutch <b>2012</b> ,		2
39	A switched second-order sliding mode control algorithm for non-affine systems with saturations <b>2012</b> ,		2
38	Transmission control for power-shift agricultural tractors <b>2010</b> ,		2
37	Estimating the maneuver quality of an automatic motion inverter for end-of-line tuning in agricultural tractors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 10726-10731		2
36	On Transmission-Ratio Computation for the Control of a Continuously Variable Transmission in Agricultural Tractors. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	2
35	On Robust Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems <b>2006</b> ,		2
34	Object-oriented multibody motorcycle modelling for control systems prototyping <b>2006</b> ,		2
33	A comparison of model-based and black-box methods for speed estimation in aircraft. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14775-14780	0.7	2
32	Introduction to Active Braking Control Systems. <i>Advances in Industrial Control</i> , <b>2010</b> , 3-16	0.3	2
31	Autonomous Control of Riderless Motorcycles 293-318		2
30	Switched Integral Suboptimal Second-Order Sliding Mode Control <b>2017</b> ,		1
29	Controller design and closed-loop stability analysis for admission control in Web service systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 6709-6714		1

28	Control-oriented multirate LPV modelling of virtualized service center environments <b>2009</b> ,		1
27	Measurement of wavelength-modulation frequency response in a self-mixing interferometer <b>2009</b> ,		1
26	Switched second order sliding mode control with partial information <b>2011</b> ,		1
25	Linear parameter-varying model identification with structure selection for autonomic web service systems. <i>IET Control Theory and Applications</i> , <b>2012</b> , 6, 1889-1898	2.5	1
24	Model-free control for active braking systems in sport motorcycles *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 873-878		1
23	System-level metrics for hardware/software architectural mapping		1
22	Vehicle Vertical Wearing Index (V2 WI): active monitoring of wearing and aging of vertical-dynamics components in four-wheeled vehicles <b>2020</b> ,		1
21	GOLIATH: A Decentralized Framework for Data Collection in Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-14	6.1	1
20	Estimation Problems in Two-Wheeled Vehicles 319-344		1
19	Design of rapid first-aid alert systems for 2-wheeled vehicles via smartphones' inertial sensors. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 541-546	0.7	1
18	Automatic driver phone hand-usage detection: A cepstrum-based approach <b>2019</b> ,		1
17	Tire-Wear Control in Aircraft via Active Braking. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 984-995	4.8	1
16	Automatic stimuli classification from ERP data for augmented communication via Brain-Computer Interfaces. <i>Expert Systems With Applications</i> , <b>2021</b> , 184, 115572	7.8	1
15	Semi-Active Steering Damper Control for Two-Wheeled Vehicles 243-269		1
14	The Optimal Manoeuvre 119-154		1
13	Switched adaptation strategies for integral sliding mode control: Theory and application. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 6064-6080	3.6	0
12	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2173-2182	6.8	0
11	Wheel-slip estimation for advanced braking controllers in aircraft: Model based vs. black-box approaches. <i>Control Engineering Practice</i> , <b>2021</b> , 117, 104950	3.9	0



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|----|--|-----|---|
| 10 | Electrification potential of fuel-based vehicles and optimal placing of charging infrastructure: a large-scale vehicle-telematics approach. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1 | 7.6 | o |
| 9  | Minimum-time Path Following in Highly Redundant Electric Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 3918-3923  |     |   |
| 8  | Clutch-based launch controller design for sport motorcycles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 797-802  |     |   |
| 7  | Enhanced Switched Second Order SM Control for Active Braking in Two-wheeled Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 11919-11924                   |     |   |
| 6  | A Data-Driven, Vehicle-Independent Usage Monitoring System for Shared Fleets: Assessing Vertical and Longitudinal Wear. <i>IEEE Vehicular Technology Magazine</i> , <b>2021</b> , 2-10                                     | 9.9 |   |
| 5  | Real-time velocity regulation for productivity optimization in laser cutting. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 1230-1235   | 0.7 |   |
| 4  | Active monitoring of the state of motion in two-wheeled vehicles in absence of a valid GPS/GNSS signal. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15489-15494   | 0.7 |   |
| 3  | An Energy Management System for Light Two-Wheeled Vehicles Based on a Smartphone-in-the-Loop Architecture. <i>Lecture Notes in Mobility</i> , <b>2013</b> , 137-146  | 0.5 |   |
| 2  | Traction Control Systems Design: A Systematic Approach 198-220   |     |   |
| 1  | Identification and Analysis of Motorcycle Engine-to-Slip Dynamics 59-81  |     |   |