

# Mara Tanelli

## List of Publications by Year in Descending Order

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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	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	
134	Real-time velocity regulation for productivity optimization in laser cutting. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 1230-1235	0.7	
133	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
132	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
131	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
130	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
129	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
128	A Novel Crash Detection Algorithm for Two-Wheeled Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2021</b> , 6, 88-99	5	3
127	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	0
126	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
125	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
124	Vehicle Vertical Wearing Index (V2 WI): active monitoring of wearing and aging of vertical-dynamics components in four-wheeled vehicles <b>2020</b> ,		1
123	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	
122	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
121	Ethogram-based automatic wild animal monitoring through inertial sensors and GPS data. <i>Ecological Informatics</i> , <b>2020</b> , 59, 101112	4.2	10
120	Real-time continuous estimation of dross 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
119	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

118	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
117	Automatic driver phone hand-usage detection: A cepstrum-based approach <b>2019</b> ,		1
116	Self-calibration algorithm for an IMU in two-wheeled vehicles: design and experimental validation <b>2018</b> ,		7
115	Analysis and Development of a Novel Algorithm for the In-vehicle Hand-Usage of a Smartphone <b>2018</b> ,		3
114	. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2017</b> , 47, 609-613	4.1	2
113	Switched Integral Suboptimal Second-Order Sliding Mode Control <b>2017</b> ,		1
112	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 189-199	4.8	10
111	Sliding mode control for LPV systems <b>2016</b> ,		2
110	Switched/time-based adaptation for second-order sliding mode control. <i>Automatica</i> , <b>2016</b> , 64, 126-132	5.7	36
109	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
108	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
107	Switched third-order sliding mode control <b>2016</b> ,		3
106	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
105	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
104	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 1429-1440	6.1	4
103	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
102	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2173-2182	6.8	0
101	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

100	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		
99	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
98	Hierarchical control of overactuated vehicles via sliding mode techniques <b>2014</b> ,		2
97	Electronic Stability Control for Powered Two-Wheelers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 265-272	4.8	14
96	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
95	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
94	A Flexible Architecture for Managing Vehicle Sharing Systems. <i>IEEE Embedded Systems Letters</i> , <b>2013</b> , 5, 30-33	1	7
93	Data-Driven Design of Braking Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 186-193	4.8	60
92	Launch control for sport motorcycles: A clutch-based approach. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 1756-1766	3.9	4
91	A Security Layer for Smartphone-to-Vehicle Communication Over Bluetooth. <i>IEEE Embedded Systems Letters</i> , <b>2013</b> , 5, 34-37	1	19
90	Combined switched/time-based adaptation in second order sliding mode control <b>2013</b> ,		10
89	Quantitative Driving Style Estimation for Energy-Oriented Applications in Road Vehicles <b>2013</b> ,		13
88	Torque allocation in electric vehicles with in-wheel motors: A performance-oriented approach <b>2013</b> ,		5
87	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		
86	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
85	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	
84	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
83	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

82	Identification and control of a motorcycle electro-hydraulic clutch <b>2012,</b>		2
81	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
80	<b>2012,</b>		12
79	A switched second-order sliding mode control algorithm for non-affine systems with saturations <b>2012,</b>		2
78	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
77	<b>2012,</b>		12
76	Time-based switched sliding mode control for yaw rate regulation in two-wheeled vehicles <b>2012,</b>		4
75	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011,</b> 19, 1003-1020	4.8	21
74	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011,</b> 19, 18-30	4.8	32
73	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
72	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
71	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		
70	Active braking control for two-wheeled vehicles via switched second order sliding modes <b>2011,</b>		4
69	Control-oriented energy-profiling and modelling of urban electric vehicles <b>2011,</b>		8
68	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
67	Control-oriented analysis and quality assessment of gear shifting in motorcycles <b>2011,</b>		4
66	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
65	Switched second order sliding mode control with partial information <b>2011,</b>		1

64	Speed and acceleration controllers for a light electric two-wheeled vehicle <b>2011</b> ,		6
63	Switched second order sliding mode control <b>2010</b> ,		8
62	Transmission control for power-shift agricultural tractors <b>2010</b> ,		2
61	Linear Parametrically Varying MPC for combined Quality of Service and energy management in Web service systems <b>2010</b> ,		4
60	Towards Electronic Stability Control for Two-Wheeled Vehicles: A Preliminary Study <b>2010</b> ,		5
59	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
58	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
57	Active Braking Control Systems Design for Vehicles. <i>Advances in Industrial Control</i> , <b>2010</b> ,	0.3	104
56	<b>2010</b> ,		6
55	Black-box performance models for virtualized web service applications <b>2010</b> ,		14
54	Switched second order sliding mode for wheel slip control of road vehicles <b>2010</b> ,		6
53	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
52	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
51	Frequency Compensation for a Self-Mixing Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 1368-1374	5.2	15
50	A Control-Theoretic Approach for the Combined Management of Quality-of-Service and Energy in Service Centers <b>2010</b> , 73-96		4
49	Introduction to Active Braking Control Systems. <i>Advances in Industrial Control</i> , <b>2010</b> , 3-16	0.3	2
48	Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles <b>2009</b> ,		6
47	Control-oriented multirate LPV modelling of virtualized service center environments <b>2009</b> ,		1

46	Measurement of wavelength-modulation frequency response in a self-mixing interferometer <b>2009</b> ,		1
45	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
44	Control-Oriented Vehicle Attitude Estimation With Online Sensors Bias Compensation <b>2009</b> ,		7
43	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 1640-1649	5.2	22
42	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles <b>2009</b> ,		4
41	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
40	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 3347-3356	8.9	46
39	Real-time identification of tire-road friction conditions. <i>IET Control Theory and Applications</i> , <b>2009</b> , 3, 891-906	2.5	67
38	<b>2009</b> ,		8
37	Roll angle estimation in two-wheeled vehicles. <i>IET Control Theory and Applications</i> , <b>2009</b> , 3, 20-32	2.5	37
36	Switched model predictive control for performance enhancement. <i>International Journal of Control</i> , <b>2008</b> , 81, 1859-1869	1.5	39
35	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
34	Roll angle estimation in two-wheeled vehicles <b>2008</b> ,		11
33	Real-time identification of tire-road friction conditions <b>2008</b> ,		10
32	Electronic throttle control for ride-by-wire in sport motorcycles <b>2008</b> ,		10
31	LPV model identification for power management of Web service systems <b>2008</b> ,		14
30	New Regressors for the Direct Identification of Tire Deformation in Road Vehicles Via In-Tire Accelerometers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 769-780	4.8	38
29	Characterization of Optical Sensors for Real-Time Measurement of Motorcycle Tilt Angles <b>2008</b> ,		4

28	On- and off-line model identification for power management of Web service systems <b>2008</b> ,		6
27	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
26	Analysing the interaction between braking control and speed estimation: The case of two-wheeled vehicles <b>2008</b> ,		7
25	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
24	Robust nonlinear output feedback control for brake by wire control systems. <i>Automatica</i> , <b>2008</b> , 44, 1078-1087	5.7	79
23	On optimal motorcycle braking. <i>Control Engineering Practice</i> , <b>2008</b> , 16, 644-657	3.9	72
22	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
21	Active Energy-Aware Management of Business-Process Based Applications. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 183-195	0.9	10
20	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
19	Limit cycles analysis in hybrid anti-lock braking systems <b>2007</b> ,		9
18	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
17	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
16	On Robust Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems <b>2006</b> ,		2
15	Object-oriented multibody motorcycle modelling for control systems prototyping <b>2006</b> ,		2
14	Longitudinal vehicle speed estimation for traction and braking control systems <b>2006</b> ,		6
13	Robust Nonlinear Proportional-Integral Control for Active Braking Control Systems <b>2006</b> ,		5
12	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2006</b> , 11, 346-357	5.5	16
11	Non-local extremum seeking control for active braking control systems <b>2006</b> ,		16



10	Longitudinal Vehicle Speed Estimation for Traction and Braking Control Systems <b>2006,</b>	16
9	Object- Oriented Multibody Motorcycle Modelling for Control Systems Prototyping <b>2006,</b>	3
8	On Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems	3
7	System-level metrics for hardware/software architectural mapping	1
6	Estimation Problems in Two-Wheeled Vehicles319-344	1
5	Autonomous Control of Riderless Motorcycles293-318	2
4	Traction Control Systems Design: A Systematic Approach198-220	
3	Identification and Analysis of Motorcycle Engine-to-Slip Dynamics59-81	
2	Semi-Active Steering Damper Control for Two-Wheeled Vehicles243-269	1
1	The Optimal Manoeuvre119-154	1