

Lorenzo Fagiano

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.

110
papers

2,268
citations

25
h-index

45
g-index

125
ext. papers

2,868
ext. citations

4.1
avg. IF

5.44
L-index

#	Paper	IF	Citations
110	The scenario approach for Stochastic Model Predictive Control with bounds on closed-loop constraint violations. <i>Automatica</i> , 2014 , 50, 3009-3018	5.7	160
109	Robust Model Predictive Control via Scenario Optimization. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 219-224	5.9	136
108	High Altitude Wind Energy Generation Using Controlled Power Kites. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 279-293	4.8	118
107	Vehicle Yaw Control via Second-Order Sliding-Mode Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 3908-3916	8.9	102
106	Robust vehicle yaw control using an active differential and IMC techniques. <i>Control Engineering Practice</i> , 2007 , 15, 923-941	3.9	98
105	Generalized terminal state constraint for model predictive control. <i>Automatica</i> , 2013 , 49, 2622-2631	5.7	86
104	Adaptive receding horizon control for constrained MIMO systems. <i>Automatica</i> , 2014 , 50, 3019-3029	5.7	80
103	Automatic Crosswind Flight of Tethered Wings for Airborne Wind Energy: Modeling, Control Design, and Experimental Results. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1433-1447 ^{4.8}	4.8	79
102	Randomized Solutions to Convex Programs with Multiple Chance Constraints. <i>SIAM Journal on Optimization</i> , 2013 , 23, 2479-2501	2	72
101	Set Membership approximation theory for fast implementation of Model Predictive Control laws. <i>Automatica</i> , 2009 , 45, 45-54	5.7	72
100	Future emerging technologies in the wind power sector: A European perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109270	16.2	68
99	Data-driven control of nonlinear systems: An on-line direct approach. <i>Automatica</i> , 2017 , 75, 1-10	5.7	65
98	KiteGen: A revolution in wind energy generation. <i>Energy</i> , 2009 , 34, 355-361	7.9	65
97	Optimization of airborne wind energy generators. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 2055-2083	3.6	63
96	Stochastic model predictive control of LPV systems via scenario optimization. <i>Automatica</i> , 2013 , 49, 1861-1866 ^{6.0}	6.0	60
95	Power Kites for Wind Energy Generation [Applications of Control]. <i>IEEE Control Systems</i> , 2007 , 27, 25-38 ^{2.9}	2.9	60
94	On the design and tuning of linear model predictive control for wind turbines. <i>Renewable Energy</i> , 2015 , 80, 664-673	8.1	54

93	Comparing Internal Model Control and Sliding-Mode Approaches for Vehicle Yaw Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009 , 10, 31-41	6.1	52
92	High-Altitude Wind Power Generation. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 168-180	5.4	51
91	Real-Time Optimization and Adaptation of the Crosswind Flight of Tethered Wings for Airborne Wind Energy. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 434-448	4.8	38
90	On Sensor Fusion for Airborne Wind Energy Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 930-943	4.8	36
89	Nonlinear model predictive control from data: a set membership approach. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 123-139	3.6	33
88	Nonlinear stochastic model predictive control via regularized polynomial chaos expansions 2012 ,		32
87	Direct feedback control design for nonlinear systems. <i>Automatica</i> , 2013 , 49, 849-860	5.7	26
86	Randomized Model Predictive Control for stochastic linear systems 2012 ,		26
85	Stability control of 4WS vehicles using robust IMC techniques. <i>Vehicle System Dynamics</i> , 2008 , 46, 991-1018	4.8	23
84	Automatic Retraction and Full-Cycle Operation for a Class of Airborne Wind Energy Generators. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 594-608	4.8	22
83	Approximate NMPC for vehicle stability: Design, implementation and SIL testing. <i>Control Engineering Practice</i> , 2010 , 18, 630-639	3.9	22
82	Design of a Small-Scale Prototype for Research in Airborne Wind Energy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 166-177	5.5	21
81	On the take-off of airborne wind energy systems based on rigid wings. <i>Renewable Energy</i> , 2017 , 107, 473-488	8.1	20
80	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 781-791	6.1	20
79	On real-time optimization of airborne wind energy generators 2013 ,		19
78	Comparing rear wheel steering and rear active differential approaches to vehicle yaw control. <i>Vehicle System Dynamics</i> , 2010 , 48, 529-546	2.8	19
77	Efficient Model Predictive Control for Nonlinear Systems via Function Approximation Techniques. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1911-1916	5.9	19
76	Electricity in the air: Insights from two decades of advanced control research and experimental flight testing of airborne wind energy systems. <i>Annual Reviews in Control</i> , 2021 , 52, 330-330	10.3	16

75	Autonomous Takeoff and Flight of a Tethered Aircraft for Airborne Wind Energy. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 151-166	4.8	15
74	Learning-based predictive control for linear systems: A unitary approach. <i>Automatica</i> , 2019 , 108, 108473-5	5.7	14
73	Learning a Nonlinear Controller From Data: Theory, Computation, and Experimental Results. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1854-1868	5.9	12
72	Adaptive model predictive control for linear time varying MIMO systems. <i>Automatica</i> , 2019 , 105, 237-245	5.7	12
71	A combined Moving Horizon and Direct Virtual Sensor approach for constrained nonlinear estimation. <i>Automatica</i> , 2013 , 49, 193-199	5.7	11
70	Direct data-driven inverse control of a power kite for high altitude wind energy conversion 2011 ,		11
69	Simulation of stochastic systems via polynomial chaos expansions and convex optimization. <i>Physical Review E</i> , 2012 , 86, 036702	2.4	10
68	Industry engagement with control research: Perspective and messages. <i>Annual Reviews in Control</i> , 2020 , 49, 1-14	10.3	10
67	Systems of Tethered Multicopters: Modeling and Control Design. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4610-4615	5.7	9
66	A DVS-MHE Approach to Vehicle Side-Slip Angle Estimation. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2048-2055	4.8	9
65	A model predictive control approach to vehicle yaw control using identified models. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012 , 226, 577-590	1.4	9
64	A study on the use of virtual sensors in vehicle control 2008 ,		8
63	Vehicle yaw control using a fast NMPC approach 2008 ,		8
62	Adaptive model predictive control for constrained linear systems 2013 ,		8
61	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1869-1880	5.5	7
60	On modeling and control of the retraction phase for airborne wind energy systems 2014 ,		7
59	Set membership approximation of discontinuous nonlinear model predictive control laws. <i>Automatica</i> , 2012 , 48, 191-197	5.7	6
58	Design of Robust Predictive Control Laws Using Set Membership Identified Models. <i>Asian Journal of Control</i> , 2013 , 15, 1714-1722	1.7	6

57	Scenario and Adaptive Model Predictive Control of Uncertain Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 352-359	0.7	6
56	On mixed-integer random convex programs 2012 ,		6
55	Robust model predictive control via random convex programming 2011 ,		6
54	KiteGen project: control as key technology for a quantum leap in wind energy generators. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	6
53	Automatic Retraction Phase of Airborne Wind Energy Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5826-5831		5
52	Automatic crosswind flight of tethered wings for airborne wind energy: a direct data-driven approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4927-4932		5
51	On the optimal worst-case experiment design for constrained linear systems. <i>Automatica</i> , 2014 , 50, 3291-3298	5.7	5
50	On the use of approximated predictive control laws for nonlinear systems 2008 ,		5
49	Fast Nonlinear Model Predictive Control via Set Membership Approximation: An Overview. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 461-470	0.5	5
48	Shrinking horizon parametrized predictive control with application to energy-efficient train operation. <i>Automatica</i> , 2020 , 112, 108635	5.7	5
47	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1309-1322	4.8	5
46	Automatic Take-Off of a Tethered Aircraft for Airborne Wind Energy: Control Design and Experimental Results. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11932-11937	0.7	4
45	A direct Moving Horizon approach to vehicle side-slip angle estimation 2010 ,		4
44	A robust IMC approach for stability control of 4WS vehicles 2007 ,		4
43	On Modeling, Filtering and Automatic Control of Flexible Tethered Wings for Airborne Wind Energy. <i>Green Energy and Technology</i> , 2013 , 167-180	0.6	4
42	Learning multi-step prediction models for receding horizon control 2018 ,		4
41	Set Membership Identification of Linear Systems With Guaranteed Simulation Accuracy. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 5189-5204	5.9	3
40	On the order reduction of the radiative heat transfer model for the simulation of plasma arcs in switchgear devices. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 169, 58-78	2.1	3

39	Identification of Induction Motors Using Smart Circuit Breakers. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2638-2646	4.8	3
38	Motor parameters estimation from industrial electrical measurements 2017 ,		3
37	Active pitch control of tethered wings for airborne wind energy 2014 ,		3
36	Editorial To Tame the Wind: Advanced Control Applications in Wind Energy. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1045-1048	4.8	3
35	Set membership approximations of predictive control laws: the tradeoff between accuracy and complexity. <i>IET Control Theory and Applications</i> , 2010 , 4, 2907-2920	2.5	3
34	Robust model predictive control: The random convex programming approach 2011 ,		3
33	Model Predictive Control with generalized terminal state constraint. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 299-304		3
32	On the design of linear virtual sensors for low cost vehicle stability control 2008 ,		3
31	Fast implementation of predictive controllers using SM approximation methodologies 2007 ,		3
30	Structured modelling from data and optimal control of the cooling system of a large business center. <i>Journal of Building Engineering</i> , 2020 , 28, 101043	5.2	3
29	Control of a rigid wing pumping Airborne Wind Energy system in all operational phases. <i>Control Engineering Practice</i> , 2021 , 111, 104794	3.9	3
28	On the autonomous take-off and landing of tethered wings for airborne wind energy 2016 ,		3
27	Linear Take-Off and Landing of a Rigid Aircraft for Airborne Wind Energy Extraction. <i>Green Energy and Technology</i> , 2018 , 491-514	0.6	2
26	Set membership estimation of day-ahead microgrids scheduling 2019 ,		2
25	Experimental testing of an adaptive model predictive controller on a quad-tank system 2014 ,		2
24	Vehicle side-slip angle estimation using a direct MH estimator 2010 ,		2
23	Control of tethered airfoils for sustainable marine transportation 2010 ,		2
22	Set Membership approximation of discontinuous NMPC laws 2009 ,		2

21	Vehicle lateral stability control via approximated NMPC: real-time implementation and software-in-the-loop test 2009 ,			2
20	On the guaranteed accuracy of Polynomial Chaos Expansions 2011 ,			2
19	On the Robustness of Receding Horizon Control using Nonlinear Approximated Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 226-231			2
18	A comparison between IMC and Sliding Mode approaches to vehicle yaw control 2008 ,			2
17	Identification of the cooling system of a large business center. <i>IFAC-PapersOnLine</i> , 2018 , 51, 174-179	0.7		2
16	On-line direct control design for nonlinear systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 144-149	0.7		1
15	Electricity in the Air: Tethered Wind Energy Systems. <i>Mechanical Engineering</i> , 2013 , 135, S13-S21	0.9		1
14	Robust design of predictive controllers using Set Membership identified models*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13414-13419			1
13	Optimization and control of a hybrid kite boat1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 14748-14753			1
12	Nonlinear Model Predictive Control using Set Membership Approximated Models 2010 ,			1
11	Sparse Set Membership identification of nonlinear functions and application to control of power kites for wind energy conversion 2011 ,			1
10	Optimal Training of Echo State Networks via Scenario Optimization. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5183-5188	0.7		1
9	A hierarchical approach for balancing service provision by microgrids aggregators. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12930-12935	0.7		1
8	Efficient Train Operation via Shrinking Horizon Parametrized Predictive Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 203-208	0.7		1
7	Robust predictive control with data-based multi-step prediction models 2018 ,			1
6	Robust multi-rate predictive control using multi-step prediction models learned from data. <i>Automatica</i> , 2021 , 136, 109852	5.7		1
5	Adaptive model predictive control for constrained MIMO systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 39-44			0
4	Day-Ahead Building Load Forecasting with a Small dataset. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13076-13081	0.7		0

- 3 SMGO: A set membership approach to data-driven global optimization. *Automatica*, **2021**, 133, 109890 5.7 ○
- 2 Vehicle stability control using direct virtual sensors. *Vehicle System Dynamics*, **2012**, 50, 597-618 2.8
- 1 Safeguarded optimal policy learning for a smart discrete manufacturing plant. *IFAC-PapersOnLine*, **2022**, 55, 396-401 0.7