

Lorenzo Fagiano

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2446866/lorenzo-fagiano-publications-by-year.pdf>

Version: 2024-04-25

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.

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	Safeguarded optimal policy learning for a smart discrete manufacturing plant. <i>IFAC-PapersOnLine</i> , 2022 , 55, 396-401	0.7	
109	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
108	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
107	Robust multi-rate predictive control using multi-step prediction models learned from data. <i>Automatica</i> , 2021 , 136, 109852	5.7	1
106	SMGO: A set membership approach to data-driven global optimization. <i>Automatica</i> , 2021 , 133, 109890	5.7	0
105	Set Membership Identification of Linear Systems With Guaranteed Simulation Accuracy. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 5189-5204	5.9	3
104	Day-Ahead Building Load Forecasting with a Small dataset. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13076-13081	0.7	0
103	Industry engagement with control research: Perspective and messages. <i>Annual Reviews in Control</i> , 2020 , 49, 1-14	10.3	10
102	Optimal Training of Echo State Networks via Scenario Optimization. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5183-5188	5.7	1
101	A hierarchical approach for balancing service provision by microgrids aggregators. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12930-12935	0.7	1
100	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
99	Shrinking horizon parametrized predictive control with application to energy-efficient train operation. <i>Automatica</i> , 2020 , 112, 108635	5.7	5
98	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1309-1322	4.8	5
97	Adaptive model predictive control for linear time varying MIMO systems. <i>Automatica</i> , 2019 , 105, 237-245	5.7	12
96	Identification of Induction Motors Using Smart Circuit Breakers. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2638-2646	4.8	3
95	Learning-based predictive control for linear systems: A unitary approach. <i>Automatica</i> , 2019 , 108, 108473	5.7	14
94	Future emerging technologies in the wind power sector: A European perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109270	16.2	68

93	Set membership estimation of day-ahead microgrids scheduling 2019 ,		2
92	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
91	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
90	Learning multi-step prediction models for receding horizon control 2018 ,		4
89	Identification of the cooling system of a large business center. <i>IFAC-PapersOnLine</i> , 2018 , 51, 174-179	0.7	2
88	Efficient Train Operation via Shrinking Horizon Parametrized Predictive Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 203-208	0.7	1
87	Robust predictive control with data-based multi-step prediction models 2018 ,		1
86	On the take-off of airborne wind energy systems based on rigid wings. <i>Renewable Energy</i> , 2017 , 107, 473-488	8.1	20
85	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1869-1880	5.5	7
84	Data-driven control of nonlinear systems: An on-line direct approach. <i>Automatica</i> , 2017 , 75, 1-10	5.7	65
83	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
82	Systems of Tethered Multicopters: Modeling and Control Design. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4610-4615.7	15.7	9
81	Motor parameters estimation from industrial electrical measurements 2017 ,		3
80	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
79	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
78	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
77	On the autonomous take-off and landing of tethered wings for airborne wind energy 2016 ,		3
76	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

75	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
74	On-line direct control design for nonlinear systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 144-149	0.7	1
73	On the design and tuning of linear model predictive control for wind turbines. <i>Renewable Energy</i> , 2015 , 80, 664-673	8.1	54
72	Scenario and Adaptive Model Predictive Control of Uncertain Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 352-359	0.7	6
71	Adaptive receding horizon control for constrained MIMO systems. <i>Automatica</i> , 2014 , 50, 3019-3029	5.7	80
70	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	79
69	On Sensor Fusion for Airborne Wind Energy Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 930-943	4.8	36
68	Automatic Retraction Phase of Airborne Wind Energy Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5826-5831		5
67	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
66	Active pitch control of tethered wings for airborne wind energy 2014 ,		3
65	On modeling and control of the retraction phase for airborne wind energy systems 2014 ,		7
64	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
63	Experimental testing of an adaptive model predictive controller on a quad-tank system 2014 ,		2
62	On the optimal worst-case experiment design for constrained linear systems. <i>Automatica</i> , 2014 , 50, 3291-3298	5.7	5
61	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
60	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
59	Design of Robust Predictive Control Laws Using Set Membership Identified Models. <i>Asian Journal of Control</i> , 2013 , 15, 1714-1722	1.7	6
58	Stochastic model predictive control of LPV systems via scenario optimization. <i>Automatica</i> , 2013 , 49, 1861-1866	5.7	60

57	Generalized terminal state constraint for model predictive control. <i>Automatica</i> , 2013 , 49, 2622-2631	5.7	86
56	On real-time optimization of airborne wind energy generators 2013 ,		19
55	A combined Moving Horizon and Direct Virtual Sensor approach for constrained nonlinear estimation. <i>Automatica</i> , 2013 , 49, 193-199	5.7	11
54	Robust Model Predictive Control via Scenario Optimization. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 219-224	5.9	136
53	Direct feedback control design for nonlinear systems. <i>Automatica</i> , 2013 , 49, 849-860	5.7	26
52	Randomized Solutions to Convex Programs with Multiple Chance Constraints. <i>SIAM Journal on Optimization</i> , 2013 , 23, 2479-2501	2	72
51	Adaptive model predictive control for constrained MIMO systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 39-44		0
50	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
49	Electricity in the Air: Tethered Wind Energy Systems. <i>Mechanical Engineering</i> , 2013 , 135, S13-S21	0.9	1
48	Adaptive model predictive control for constrained linear systems 2013 ,		8
47	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
46	Set membership approximation of discontinuous nonlinear model predictive control laws. <i>Automatica</i> , 2012 , 48, 191-197	5.7	6
45	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 781-791	6.1	20
44	On mixed-integer random convex programs 2012 ,		6
43	Optimization of airborne wind energy generators. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 2055-2083	3.6	63
42	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
41	Simulation of stochastic systems via polynomial chaos expansions and convex optimization. <i>Physical Review E</i> , 2012 , 86, 036702	2.4	10
40	Vehicle stability control using direct virtual sensors. <i>Vehicle System Dynamics</i> , 2012 , 50, 597-618	2.8	

39	Nonlinear stochastic model predictive control via regularized polynomial chaos expansions 2012 ,		32
38	Randomized Model Predictive Control for stochastic linear systems 2012 ,		26
37	Model Predictive Control with generalized terminal state constraint. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 299-304		3
36	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
35	Optimization and control of a hybrid kite boat ¹ . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 14748-14753		1
34	Robust model predictive control: The random convex programming approach 2011 ,		3
33	Direct data-driven inverse control of a power kite for high altitude wind energy conversion 2011 ,		11
32	Sparse Set Membership identification of nonlinear functions and application to control of power kites for wind energy conversion 2011 ,		1
31	On the guaranteed accuracy of Polynomial Chaos Expansions 2011 ,		2
30	Robust model predictive control via random convex programming 2011 ,		6
29	A direct Moving Horizon approach to vehicle side-slip angle estimation 2010 ,		4
28	Nonlinear Model Predictive Control using Set Membership Approximated Models 2010 ,		1
27	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
26	High-Altitude Wind Power Generation. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 168-180	5.4	51
25	High Altitude Wind Energy Generation Using Controlled Power Kites. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 279-293	4.8	118
24	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
23	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
22	Vehicle side-slip angle estimation using a direct MH estimator 2010 ,		2

21	Control of tethered airfoils for sustainable marine transportation 2010 ,		2
20	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
19	Approximate NMPC for vehicle stability: Design, implementation and SIL testing. <i>Control Engineering Practice</i> , 2010 , 18, 630-639	3.9	22
18	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
17	Set Membership approximation of discontinuous NMPC laws 2009 ,		2
16	Vehicle lateral stability control via approximated NMPC: real-time implementation and software-in-the-loop test 2009 ,		2
15	KiteGen: A revolution in wind energy generation. <i>Energy</i> , 2009 , 34, 355-361	7.9	65
14	Set Membership approximation theory for fast implementation of Model Predictive Control laws. <i>Automatica</i> , 2009 , 45, 45-54	5.7	72
13	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
12	Vehicle Yaw Control via Second-Order Sliding-Mode Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 3908-3916	8.9	102
11	On the design of linear virtual sensors for low cost vehicle stability control 2008 ,		3
10	Stability control of 4WS vehicles using robust IMC techniques. <i>Vehicle System Dynamics</i> , 2008 , 46, 991-1018	1.8	23
9	On the use of approximated predictive control laws for nonlinear systems 2008 ,		5
8	A study on the use of virtual sensors in vehicle control 2008 ,		8
7	A comparison between IMC and Sliding Mode approaches to vehicle yaw control 2008 ,		2
6	Vehicle yaw control using a fast NMPC approach 2008 ,		8
5	Robust vehicle yaw control using an active differential and IMC techniques. <i>Control Engineering Practice</i> , 2007 , 15, 923-941	3.9	98
4	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

- 3 Fast implementation of predictive controllers using SM approximation methodologies **2007**, 3
- 2 A robust IMC approach for stability control of 4WS vehicles **2007**, 4
- 1 Power Kites for Wind Energy Generation [Applications of Control]. *IEEE Control Systems*, **2007**, 27, 25-38.9 60