

Luigi Glielmo

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

3,436
citations

257101

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all docs

156
docs citations

156
times ranked

2977
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on the application of path-planning algorithms for multi-rotor UAVs in precision agriculture. <i>Journal of Navigation</i> , 2022, 75, 364-383.	1.0	34
2	A Bibliometric Review of the Use of Unmanned Aerial Vehicles in Precision Agriculture and Precision Viticulture for Sensing Applications. <i>Remote Sensing</i> , 2022, 14, 1604.	1.8	31
3	A model predictive control scheme for regenerative braking in vehicles with hybridized architectures via aftermarket kits. <i>Control Engineering Practice</i> , 2022, 123, 105142.	3.2	18
4	Self-triggered control of probabilistic Boolean control networks: A reinforcement learning approach. <i>Journal of the Franklin Institute</i> , 2022, 359, 6173-6195.	1.9	14
5	Allocating resources via price management systems: a dynamic programming-based approach. <i>International Journal of Control</i> , 2021, 94, 2123-2143.	1.2	5
6	Condition-based maintenance: an industrial application on rotary machines. <i>Journal of Quality in Maintenance Engineering</i> , 2021, 27, 565-585.	1.0	6
7	Modelling and solving resource allocation problems via a dynamic programming approach. <i>International Journal of Control</i> , 2021, 94, 1544-1555.	1.2	10
8	A Multi-Step Anomaly Detection Strategy Based on Robust Distances for the Steel Industry. <i>IEEE Access</i> , 2021, 9, 53827-53837.	2.6	17
9	An Actor-Critic approach for control of Residential Photovoltaic-Battery Systems. <i>IFAC-PapersOnLine</i> , 2021, 54, 222-227.	0.5	4
10	Optimal operations for hydrogen-based energy storage systems in wind farms via model predictive control. <i>International Journal of Hydrogen Energy</i> , 2021, , .	3.8	33
11	A Heuristic Algorithm for Combined Heat and Power System Operation Management. <i>Energies</i> , 2021, 14, 1588.	1.6	1
12	Model-free Self-triggered Control Co-design for Probabilistic Boolean Control Networks. , 2021, , .		0
13	A Vision-Based Algorithm for a Path Following Problem. , 2021, , .		2
14	Game-theoretic demand side management of a neighbourhood of smart homes with real and virtual energy storage. , 2021, , .		1
15	Decentralized Control of Residential Energy Storage System for Community Peak Shaving: A Constrained Aggregative Game. , 2021, , .		4
16	A Deep Q-Learning based approach applied to the Snake game. , 2021, , .		2
17	Robust Statistics-based Anomaly Detection in a Steel Industry*. , 2021, , .		4
18	A Novel Algorithm for Lane Detection based on Iterative Tree Search. , 2021, , .		1

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19	Model-Free Self-Triggered Control Co-Design for Probabilistic Boolean Control Networks. , 2021, 5, 1639-1644.		18
20	A Reinforcement Learning approach for pedestrian collision avoidance and trajectory tracking in autonomous driving systems. , 2021, , .		1
21	A Model Predictive Scheme for Autonomous Vehicles Cybersecurity. , 2021, , .		0
22	Fault Detection and Diagnosis in Steel Industry: a One Class-Support Vector Machine Approach. , 2021, , .		4
23	Output Tracking Control Design of Switched Boolean Control Networks. , 2020, 4, 355-360.		27
24	A Least-Squares Temporal Difference based method for solving resource allocation problems. IFAC Journal of Systems and Control, 2020, 13, 100106.	1.1	4
25	Double Deep-Q Learning-Based Output Tracking of Probabilistic Boolean Control Networks. IEEE Access, 2020, 8, 199254-199265.	2.6	18
26	Reinforcement Learning Approach to Feedback Stabilization Problem of Probabilistic Boolean Control Networks. , 2020, , 1-1.		13
27	A Scenario-Based Branch-and-Bound Approach for MES Scheduling in Urban Buildings. IEEE Transactions on Industrial Informatics, 2020, 16, 7510-7520.	7.2	12
28	Decentralized Hierarchical Planning of PEVs Based on Mean-Field Reverse Stackelberg Game. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2014-2024.	3.4	13
29	Use of Hydraulically Operated PRVs for Pressure Regulation and Power Generation in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, 04020047.	1.3	10
30	Feedback stabilization control design for switched Boolean control networks. Automatica, 2020, 116, 108934.	3.0	49
31	Sampled-Data Set Stabilization of Switched Boolean Control Networks. IFAC-PapersOnLine, 2020, 53, 6139-6144.	0.5	12
32	Modeling and Optimal Control of a Hydrogen Storage System for Wind Farm Output Power Smoothing. , 2020, , .		7
33	Decentralized Charging Coordination of Plug-in Electric Vehicles Based on Reverse Stackelberg Game. , 2019, , .		2
34	A data-driven approximate dynamic programming approach based on association rule learning: Spacecraft autonomy as a case study. Information Sciences, 2019, 504, 501-519.	4.0	19
35	Mixed Logic Dynamic Models for MPC Control of Wind Farm Hydrogen-Based Storage Systems. Inventions, 2019, 4, 57.	1.3	15
36	Modeling of a Hydrogen Storage Wind Plant for Model Predictive Control Management Strategies. , 2019, , .		3

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37	Control of Switched Boolean Control Networks by State Feedback. , 2019, , .		7
38	A Combined Support Vector Machine and Support Vector Representation Machine Method for Production Control *. , 2019, , .		2
39	A review on the use of drones for precision agriculture. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012022.	0.2	74
40	Support Vector Representation Machine for superalloy investment casting optimization. Applied Mathematical Modelling, 2019, 72, 324-336.	2.2	15
41	Auto-regulation of Secretory Flux by Sensing and Responding to the Folded Cargo Protein Load in the Endoplasmic Reticulum. Cell, 2019, 176, 1461-1476.e23.	13.5	65
42	Condition Based Maintenance for Industrial Labeling Machine. , 2019, , .		0
43	Output Tracking Control of Probabilistic Boolean Control Networks. , 2019, , .		13
44	Storage Constrained Smart Meter Sensing using Semi-Tensor Product. , 2019, , .		1
45	Operation of a Prototype for Real Time Control of Pressure and Hydropower Generation in Water Distribution Networks. Water Resources Management, 2019, 33, 697-712.	1.9	23
46	Model Checking Techniques Applied to Satellite Operational Mode Management. IEEE Systems Journal, 2019, 13, 1018-1029.	2.9	13
47	Distributed Cycle Detection and Removal. IEEE Transactions on Control of Network Systems, 2018, 5, 194-204.	2.4	6
48	Estimation, Learning, and Stability Analysis of Supply Function Equilibrium Game for Generation Companies. IEEE Systems Journal, 2018, 12, 2577-2588.	2.9	1
49	A Semantic-Middleware-Supported Receding Horizon Optimal Power Flow in Energy Grids. IEEE Transactions on Industrial Informatics, 2018, 14, 35-46.	7.2	24
50	A Survey on Model-Based Mission Planning and Execution for Autonomous Spacecraft. IEEE Systems Journal, 2018, 12, 3893-3905.	2.9	34
51	Real-Time Control of a PRV in Water Distribution Networks for Pressure Regulation: Theoretical Framework and Laboratory Experiments. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 04017075.	1.3	33
52	Modelling and stability analysis in human population genetics with selection and mutation. Mathematical Methods in the Applied Sciences, 2018, 41, 1492-1508.	1.2	0
53	A Cyber-Physical Systems Approach for Implementing the Receding Horizon Optimal Power Flow in Smart Grids. IEEE Transactions on Sustainable Computing, 2018, 3, 98-111.	2.2	14
54	Reachability and Controllability of Delayed Switched Boolean Control Networks. , 2018, , .		5

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55	Price Management in Resource Allocation Problem with Approximate Dynamic Programming. , 2018, , .		0
56	When sex matters: a complete model of X-linked diseases. International Journal of General Systems, 2018, 47, 549-568.	1.2	1
57	Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 223-233.	0.6	1
58	Robust decentralised mean field control in leader following multi-agent systems. IET Control Theory and Applications, 2017, 11, 2707-2715.	1.2	8
59	A lab prototype of pressure control in water distribution networks. IFAC-PapersOnLine, 2017, 50, 15373-15378.	0.5	8
60	Spacecraft autonomy modeled via Markov decision process and associative rule-based machine learning. , 2017, , .		13
61	Model Predictive Control-Based Optimal Operations of District Heating System With Thermal Energy Storage and Flexible Loads. IEEE Transactions on Automation Science and Engineering, 2017, 14, 547-557.	3.4	110
62	An Approach for Geostationary Satellite Mode Management. IFAC-PapersOnLine, 2017, 50, 7241-7246.	0.5	2
63	Stochastic optimal controller design for medium access constrained networked control systems with unknown dynamics. Intelligent Decision Technologies, 2017, 11, 253-264.	0.6	0
64	Effects of selection and mutation on epidemiology of X-linked genetic diseases. Mathematical Biosciences and Engineering, 2017, 14, 755-775.	1.0	3
65	Access Time Eccentricity and Diameter. Lecture Notes in Control and Information Sciences, 2017, , 215-226.	0.6	0
66	Stochastic model predictive control for optimal energy management of district heating power plants. , 2016, , .		0
67	Asynchronous cooperative method for distributed model predictive control. , 2016, , .		1
68	Optimal operations and load allocation of a power plant equipped with a CCHP feeding power, steam and cold water to an industrial plant. , 2016, , .		3
69	Demand Side Management for heating controls in Microgrids. IFAC-PapersOnLine, 2016, 49, 611-616.	0.5	17
70	Stochastic model predictive control for economic/environmental operation management of microgrids: An experimental case study. Journal of Process Control, 2016, 43, 24-37.	1.7	108
71	Probabilistic model checking applied to autonomous spacecraft reconfiguration. , 2016, , .		6
72	Optimal operation of a district heating power plant with thermal energy storage. , 2016, , .		12

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73	State aggregation approximate dynamic programming for model-based spacecraft autonomy. , 2016, , .		8
74	Real Time Control of a Prototype for Pressure Regulation and Energy Production in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	40
75	Stability and sensitivity analysis of an epidemiological model of genetic diseases. , 2015, , .		0
76	Selection and mutation effects on equilibrium and stability of X-linked recessive diseases. , 2015, , .		0
77	A colored Gauss-Seidel approach for the distributed network flow problem. , 2015, , .		3
78	Optimization of energy exchanges in utility grids with applications to residential, industrial and tertiary cases. , 2015, , .		1
79	A receding horizon approach for the power flow management with renewable energy and energ storage systems. , 2015, , .		7
80	Enabling technologies for Enterprise Wide Optimization. , 2015, , .		1
81	A Markovian based approach for autonomous space systems. , 2015, , .		4
82	Supply function equilibrium game with myopic adjustment and adaptive expectation. , 2015, , .		0
83	A complete epidemiological model of a class of genetic diseases. , 2015, , .		0
84	Selection and mutation in X-linked recessive diseases epidemiological model. , 2015, 2015, 3993-6.		0
85	The application of the data mining in the integration of RES in the smart grid: Consumption and generation forecast in the I3RES project. , 2015, , .		9
86	Spacecraft autonomy and reliability in MTG satellite via On-board Control Procedures. , 2015, , .		4
87	A Method for Managing Transportation Requests and Subdivision Costs in Shared Mobility Systems. , 2015, , .		0
88	“Ruzzle” arm: A low cost educational application in Real-Time Control course. , 2014, , .		0
89	Non linear discrete time epidemiological model for X-linked recessive diseases. , 2014, , .		5
90	A Model Predictive Control Approach to Microgrid Operation Optimization. IEEE Transactions on Control Systems Technology, 2014, 22, 1813-1827.	3.2	621

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91	Use of model predictive control for experimental microgrid optimization. Applied Energy, 2014, 115, 37-46.	5.1	184
92	Optimal Power Flow model with energy storage, an extension towards large integration of renewable energy sources.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9456-9461.	0.4	12
93	Flight control system for small-size unmanned aerial vehicles: Design and software-in-the-loop validation. , 2013, , .		12
94	Robust vehicle stability control with an uncertain driver model. , 2013, , .		9
95	Stochastic Model Predictive Control for economic/environmental operation management of microgrids. , 2013, , .		29
96	Equilibrium and stability analysis of X-chromosome linked recessive diseases model. , 2012, , .		12
97	Point process modeling reveals anatomical non-uniform distribution across the Subthalamic Nucleus in Parkinson's disease. , 2012, 2012, 2539-42.		2
98	Towards automated navigation of deep brain stimulating electrodes: Analyzing neuronal activity near the target. , 2012, , .		1
99	Multi-objective optimization for environmental/economic microgrid scheduling. , 2012, , .		16
100	Robust vehicle lateral stabilisation via set-based methods for uncertain piecewise affine systems. Vehicle System Dynamics, 2012, 50, 861-882.	2.2	22
101	A mixed integer linear formulation for microgrid economic scheduling. , 2011, , .		61
102	Energy efficient microgrid management using Model Predictive Control. , 2011, , .		68
103	Closed-Loop Control of Deep Brain Stimulation: A Simulation Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 15-24.	2.7	175
104	Robust vehicle lateral stabilization via set-based methods for uncertain piecewise affine systems: Experimental results. , 2011, , .		11
105	On output feedback control of singularly perturbed systems. Applied Mathematics and Computation, 2010, 217, 1053-1070.	1.4	16
106	Analyzing Local Field Potentials in the healthy basal ganglia under Deep Brain Stimulation. , 2010, , .		1
107	An MPC scheme with guaranteed stability for linear singularly perturbed systems. , 2010, , .		10
108	System identification of Local Field Potentials under Deep Brain Stimulation in a healthy primate. , 2010, 2010, 4144-7.		5

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109	An Integrated LTV-MPC Lateral Vehicle Dynamics Control: Simulation Results. Lecture Notes in Control and Information Sciences, 2010, , 231-255.	0.6	7
110	Identification and analysis of local field potentials in Parkinson's disease under Nonlinear Delayed Feedback Stimulation.. , 2010, , .		2
111	LTV-MPC for yaw rate control and side slip control with dynamically constrained differential braking. , 2009, , .		5
112	Nicely Nonlinear LQ-based Control. , 2009, , .		0
113	A preliminary study to integrate LTV-MPC lateral vehicle dynamics control with a slip control. , 2009, , .		18
114	A hybrid procedure strategy for vehicle localization system: Design and prototyping. Control Engineering Practice, 2009, 17, 14-25.	3.2	17
115	LTV-MPC for Yaw Rate Control and Side Slip Control with Dynamically Constrained Differential Braking. European Journal of Control, 2009, 15, 468-479.	1.6	49
116	A comparison between LTV-MPC and LQR Yaw Rate-Side Slip Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 154-159.	0.4	10
117	Linear Quadratic control for restoring paralyzed muscles to standing through Functional Electrical Stimulation in paraplegic patients. , 2009, , .		0
118	A biophysically inspired microelectrode recording-based model for the subthalamic nucleus activity in Parkinson's disease. Biomedical Signal Processing and Control, 2008, 3, 203-211.	3.5	9
119	Modeling of an Electromechanical Engine Valve Actuator Based on a Hybrid Analytical-FEM Approach. IEEE/ASME Transactions on Mechatronics, 2008, 13, 625-637.	3.7	49
120	DBS feedback controlled tremor suppression in Parkinson’s disease. , 2008, , .		1
121	In cylinder air charge prediction for VVA system: Experimental validation. , 2008, , .		8
122	Emission reduction during TWC warm-up: control synthesis and hardware-in-the-loop verification. International Journal of Modelling, Identification and Control, 2008, 3, 233.	0.2	7
123	Basal Ganglia Modeling in Healthy and Parkinson's Disease State. I. Isolated Neurons Activity. Proceedings of the American Control Conference, 2007, , .	0.0	13
124	Basal Ganglia Modeling in Healthy and Parkinson's Disease State. II. Network-based Multi-Units Simulation. Proceedings of the American Control Conference, 2007, , .	0.0	5
125	On-board Prototype of a vehicle localization system. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	3
126	Control of Auxiliary Power Unit for Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2007, 15, 1122-1130.	3.2	18

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127	Gearshift control for automated manual transmissions. IEEE/ASME Transactions on Mechatronics, 2006, 11, 17-26.	3.7	176
128	ROBUST SMOOTH ENGAGEMENT OF AN AUTOMOTIVE DRY CLUTCH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 632-637.	0.4	12
129	State of charge Kalman filter estimator for automotive batteries. Control Engineering Practice, 2006, 14, 267-275.	3.2	123
130	NICELY NONLINEAR ENGINE TORQUE ESTIMATOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 218-223.	0.4	4
131	Control strategies for a spark ignition engine during the warm-up phase. , 2003, , .		0
132	An Algorithm for the Calibration of Wall-Wetting Model Parameters. , 2003, , .		11
133	A novel work in progress based production control system. , 2003, , .		3
134	CONTROL OF THE EXHAUST GAS EMISSIONS DURING THE WARM-UP PROCESS OF A TWC-EQUIPPED SI ENGINE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 301-306.	0.4	6
135	OPTIMAL TRACKING FOR AUTOMOTIVE DRY CLUTCH ENGAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 367-372.	0.4	51
136	Hybrid control of dry clutch engagement. , 2001, , .		44
137	On-board diagnosis for three-way catalytic converters. International Journal of Robust and Nonlinear Control, 2001, 11, 1073-1094.	2.1	17
138	A Two-Time-Scale Infinite-Adsorption Model of Three Way Catalytic Converters During the Warm-Up Phase1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 62-70.	0.9	10
139	A Differential Game Approach to Guaranteed Cost Control Design for Singularly Perturbed Uncertain Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 433-438.	0.4	0
140	Three-way Catalytic Converter Modelling: Neural Networks and Genetic Algorithms for the Reaction Kinetics Submodel. , 2000, , .		3
141	Optimal Control of Dry Clutch Engagement. , 2000, , .		48
142	A machine learning approach to modeling and identification of automotive three-way catalytic converters. IEEE/ASME Transactions on Mechatronics, 2000, 5, 132-141.	3.7	11
143	Interlaced extended Kalman filter as deterministic nonlinear observer. , 1999, , .		1
144	Matrix and frequency-domain inequalities for all guaranteed cost controllers of uncertain linear systems with unmatched uncertainties. , 1999, , .		2

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145	An interlaced extended Kalman filter. IEEE Transactions on Automatic Control, 1999, 44, 1546-1549.	3.6	31
146	New converse Lyapunov theorems and related results on exponential stability. Mathematics of Control, Signals, and Systems, 1998, 11, 79-100.	1.4	17
147	Robust and quadratic stability via polytopic set covering. International Journal of Robust and Nonlinear Control, 1995, 5, 745-756.	2.1	31
148	Reduced Kalman filtering for indirect adaptive control of the induction motor. International Journal of Adaptive Control and Signal Processing, 1994, 8, 527-541.	2.3	12
149	New results on composite control of singularly perturbed uncertain linear systems. Automatica, 1993, 29, 387-400.	3.0	61
150	Robust stabilization of singularly perturbed nonlinear systems. International Journal of Robust and Nonlinear Control, 1993, 3, 105-114.	2.1	0
151	Stability robustness of interval matrices via Lyapunov quadratic forms. IEEE Transactions on Automatic Control, 1993, 38, 281-284.	3.6	83
152	On the Exponential Stability of Singularly Perturbed Systems. SIAM Journal on Control and Optimization, 1992, 30, 1338-1360.	1.1	48
153	On-line plasma shape identification via magnetic measurements. IEEE Transactions on Magnetics, 1992, 28, 1601-1604.	1.2	5
154	Exponential Stability of Singularly Perturbed Systems. , 1991, , .		18
155	Dynamic mooring-forces allocation in dynamic ship positioning. Journal of Optimization Theory and Applications, 1989, 63, 309-332.	0.8	0