

Riccardo Scattolini

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,452
citations

257450

24
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114465

63
g-index

102
all docs

102
docs citations

102
times ranked

2602
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Supervised model predictive control of large-scale electricity networks via clustering methods. <i>Optimal Control Applications and Methods</i> , 2022, 43, 44-64. | 2.1 | 17 |
| 2 | Recurrent Neural Network-based Internal Model Control design for stable nonlinear systems. <i>European Journal of Control</i> , 2022, 65, 100632. | 2.6 | 8 |
| 3 | Safeguarded optimal policy learning for a smart discrete manufacturing plant. <i>IFAC-PapersOnLine</i> , 2022, 55, 396-401. | 0.9 | 0 |
| 4 | On Recurrent Neural Networks for learning-based control: Recent results and ideas for future developments. <i>Journal of Process Control</i> , 2022, 114, 92-104. | 3.3 | 25 |
| 5 | Learning model predictive control with long short-term memory networks. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 8877-8896. | 3.7 | 23 |
| 6 | Supervised control of hybrid AC-DC grids for power balance restoration. <i>Electric Power Systems Research</i> , 2021, 196, 107107. | 3.6 | 5 |
| 7 | A mixed-integer distributed approach to prosumers aggregation for providing balancing services. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 133, 107228. | 5.5 | 13 |
| 8 | Stability of discrete-time feed-forward neural networks in NARX configuration. <i>IFAC-PapersOnLine</i> , 2021, 54, 547-552. | 0.9 | 13 |
| 9 | Hierarchical Control in Islanded DC Microgrids With Flexible Structures. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 2379-2392. | 5.2 | 25 |
| 10 | On the stability properties of Gated Recurrent Units neural networks. <i>Systems and Control Letters</i> , 2021, 157, 105049. | 2.3 | 20 |
| 11 | A Hierarchical MPC Scheme for Coordination of Independent Systems With Shared Resources and Plug-and-Play Capabilities. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 521-532. | 5.2 | 4 |
| 12 | Design of Aggregators for the Day-Ahead Management of Microgrids Providing Active and Reactive Power Services. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 2616-2624. | 5.2 | 14 |
| 13 | Optimal Training of Echo State Networks via Scenario Optimization. <i>IFAC-PapersOnLine</i> , 2020, 53, 5183-5188. | 0.9 | 2 |
| 14 | A fully distributed control scheme for power balancing in distribution networks. <i>IFAC-PapersOnLine</i> , 2020, 53, 13178-13183. | 0.9 | 4 |
| 15 | Software-in-the-loop testing of a distributed optimal scheduling strategy for microgrids TM aggregators. , 2020, , . | | 2 |
| 16 | Learning-based predictive control for linear systems: A unitary approach. <i>Automatica</i> , 2019, 108, 108473. | 5.0 | 35 |
| 17 | Set membership estimation of day-ahead microgrids scheduling. , 2019, , . | | 2 |
| 18 | Model Predictive Control Design for Dynamical Systems Learned by Echo State Networks. , 2019, 3, 1044-1049. | | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Secondary Control Strategies for DC Islanded Microgrids Operation. , 2019, , . | | 6 |
| 20 | Two-layer model predictive control of systems with independent dynamics and shared control resources. IFAC-PapersOnLine, 2019, 52, 96-101. | 0.9 | 8 |
| 21 | Model Predictive Control Tools for Evolutionary Plants. , 2019, , 39-56. | | 2 |
| 22 | Distributed MPC for Large-Scale Systems. Control Engineering, 2019, , 239-258. | 0.3 | 3 |
| 23 | A hierarchical multi-rate MPC scheme for interconnected systems. Automatica, 2018, 90, 38-46. | 5.0 | 21 |
| 24 | A Two-Layer Stochastic Model Predictive Control Scheme for Microgrids. IEEE Transactions on Control Systems Technology, 2018, 26, 1-13. | 5.2 | 113 |
| 25 | A Two-Layer Control Architecture for Islanded AC Microgrids with Storage Devices. , 2018, , . | | 11 |
| 26 | Learning multi-step prediction models for receding horizon control. , 2018, , . | | 9 |
| 27 | Complexity reduction of Model Predictive Control for a de-manufacturing plant. IFAC-PapersOnLine, 2018, 51, 296-301. | 0.9 | 0 |
| 28 | Multi-rate model predictive control algorithm for systems with fast-slow dynamics. IET Control Theory and Applications, 2018, 12, 2468-2477. | 2.1 | 9 |
| 29 | Microgrids aggregation management providing ancillary services. , 2018, , . | | 9 |
| 30 | Robust predictive control with data-based multi-step prediction models. , 2018, , . | | 3 |
| 31 | Hierarchical Predictive Control of Microgrids in Islanded Operation. IEEE Transactions on Automation Science and Engineering, 2017, 14, 536-546. | 5.2 | 53 |
| 32 | Model predictive control of linear systems with multiplicative unbounded uncertainty and chance constraints. Automatica, 2016, 70, 258-265. | 5.0 | 30 |
| 33 | Model Predictive Control of an Automated Storage/Retrieval System. IFAC-PapersOnLine, 2016, 49, 1335-1340. | 0.9 | 3 |
| 34 | Hierarchical Model Predictive Control of independent systems with joint constraints. Automatica, 2016, 74, 99-106. | 5.0 | 15 |
| 35 | Distributed Predictive Control of stochastic linear systems with chance constraints. , 2016, , . | | 8 |
| 36 | Stochastic linear Model Predictive Control with chance constraints – A review. Journal of Process Control, 2016, 44, 53-67. | 3.3 | 226 |

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| 37 | Model predictive control of linear systems with multiplicative unbounded uncertainty and average constraints. IFAC-PapersOnLine, 2015, 48, 266-271. | 0.9 | 1 |
| 38 | Production scheduling of parallel machines with model predictive control. Control Engineering Practice, 2015, 42, 28-40. | 5.5 | 26 |
| 39 | Formation control and collision avoidance of unicycle robots with distributed predictive control. IFAC-PapersOnLine, 2015, 48, 260-265. | 0.9 | 8 |
| 40 | Application of distributed predictive control to motion and coordination problems for unicycle autonomous robots. Robotics and Autonomous Systems, 2015, 72, 248-260. | 5.1 | 27 |
| 41 | An approach to output-feedback MPC of stochastic linear discrete-time systems. Automatica, 2015, 55, 140-149. | 5.0 | 75 |
| 42 | Fault detection and isolation of bearings in a drive reducer of a hot steel rolling mill. Control Engineering Practice, 2015, 39, 35-44. | 5.5 | 22 |
| 43 | Two-layer predictive control of a micro-grid including stochastic energy sources. , 2015, , . | | 11 |
| 44 | Stochastic distributed Predictive Control of independent systems with coupling constraints. , 2014, , . | | 4 |
| 45 | Development of a Control-Oriented Model of Floating Wind Turbines. IEEE Transactions on Control Systems Technology, 2014, 22, 69-82. | 5.2 | 47 |
| 46 | Distributed predictive control of continuous-time systems. Systems and Control Letters, 2014, 74, 32-40. | 2.3 | 9 |
| 47 | An Approach to Distributed Predictive Control for Tracking—Theory and Applications. IEEE Transactions on Control Systems Technology, 2014, 22, 1558-1566. | 5.2 | 24 |
| 48 | Realization issues, tuning, and testing of a distributed predictive control algorithm. Journal of Process Control, 2014, 24, 424-434. | 3.3 | 23 |
| 49 | Tracking control of Wiener models with hierarchical and switching model predictive control. Optimal Control Applications and Methods, 2013, 34, 1-16. | 2.1 | 1 |
| 50 | Distributed model predictive control: A tutorial review and future research directions. Computers and Chemical Engineering, 2013, 51, 21-41. | 3.8 | 697 |
| 51 | A Robust MPC Algorithm for Offset-Free Tracking of Constant Reference Signals. IEEE Transactions on Automatic Control, 2013, 58, 2394-2400. | 5.7 | 71 |
| 52 | Block-wise discretization accounting for structural constraints. Automatica, 2013, 49, 3411-3417. | 5.0 | 21 |
| 53 | An MPC-based reference governor approach for offset-free control of constrained linear systems. International Journal of Control, 2013, 86, 1534-1539. | 1.9 | 22 |
| 54 | A hybrid model predictive control scheme for containment and distributed sensing in multi-agent systems. Systems and Control Letters, 2013, 62, 413-419. | 2.3 | 23 |

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|----|--|-----|-----------|
| 55 | Plug-and-play distributed state estimation for linear systems. , 2013, , . | | 13 |
| 56 | Decentralized predictive control for tracking constant references. , 2013, , . | | 0 |
| 57 | A probabilistic approach to Model Predictive Control. , 2013, , . | | 62 |
| 58 | A solution to the tracking problem using distributed predictive control. , 2013, , . | | 3 |
| 59 | Distributed predictive control for tracking constant references. , 2012, , . | | 4 |
| 60 | A Note on Discretization of Sparse Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 97-102. | 0.4 | 3 |
| 61 | Robust Stability Analysis of Nonlinear Discrete-Time Systems With Application to MPC. IEEE Transactions on Automatic Control, 2012, 57, 185-191. | 5.7 | 21 |
| 62 | An MPC algorithm for offset-free tracking of constant reference signals. , 2012, , . | | 12 |
| 63 | Tube-based robust sampled-data MPC for linear continuous-time systems. Automatica, 2012, 48, 1473-1476. | 5.0 | 50 |
| 64 | Distributed moving horizon estimation for nonlinear constrained systems. International Journal of Robust and Nonlinear Control, 2012, 22, 123-143. | 3.7 | 63 |
| 65 | Distributed predictive control: A non-cooperative algorithm with neighbor-to-neighbor communication for linear systems. Automatica, 2012, 48, 1088-1096. | 5.0 | 219 |
| 66 | Distributed non-cooperative MPC with neighbor-to-neighbor communication. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 404-409. | 0.4 | 19 |
| 67 | Moving horizon estimation for distributed nonlinear systems with application to cascade river reaches. Journal of Process Control, 2011, 21, 767-774. | 3.3 | 20 |
| 68 | An output feedback distributed predictive control algorithm. , 2011, , . | | 16 |
| 69 | Distributed moving horizon estimation for nonlinear constrained systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 909-914. | 0.4 | 6 |
| 70 | An MPC approach to the design of two-layer hierarchical control systems. Automatica, 2010, 46, 823-831. | 5.0 | 72 |
| 71 | Moving-horizon partition-based state estimation of large-scale systems. Automatica, 2010, 46, 910-918. | 5.0 | 99 |
| 72 | On the design of reconfigurable two layer hierarchical control systems with MPC. , 2010, , . | | 4 |

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|----|--|-----|-----------|
| 73 | An Overview of Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2010, , 107-117. | 1.0 | 7 |
| 74 | Distributed Moving Horizon Estimation for Linear Constrained Systems. IEEE Transactions on Automatic Control, 2010, 55, 2462-2475. | 5.7 | 168 |
| 75 | On the design of hierarchical control systems with MPC. , 2009, , . | | 3 |
| 76 | Stochastic Model Predictive Control of constrained linear systems with additive uncertainty. , 2009, , . | | 12 |
| 77 | A moving horizon scheme for distributed state estimation. , 2009, , . | | 13 |
| 78 | A hybrid model predictive control scheme for multi-agent containment and distributed sensing. , 2009, , . | | 0 |
| 79 | Rapid virtual prototyping and dynamics analysis of a common rail injection system for gasoline engines. International Journal of Vehicle Systems Modelling and Testing, 2009, 4, 17. | 0.1 | 2 |
| 80 | Architectures for distributed and hierarchical Model Predictive Control " A review. Journal of Process Control, 2009, 19, 723-731. | 3.3 | 1,056 |
| 81 | Model Predictive Control Schemes for Consensus in Multi-Agent Systems with Single- and Double-Integrator Dynamics. IEEE Transactions on Automatic Control, 2009, 54, 2560-2572. | 5.7 | 211 |
| 82 | Switched model predictive control for performance enhancement. International Journal of Control, 2008, 81, 1859-1869. | 1.9 | 52 |
| 83 | Modelling, simulation and predictive control of a spark ignition engine. International Journal of Modelling, Identification and Control, 2008, 3, 258. | 0.2 | 8 |
| 84 | A switched MPC approach to hierarchical control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7790-7795. | 0.4 | 12 |
| 85 | Contractive distributed MPC for consensus in networks of single- and double-integrators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9033-9038. | 0.4 | 4 |
| 86 | ROBUST MODEL PREDICTIVE CONTROL OF DISCRETE-TIME SWITCHED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 208-212. | 0.4 | 12 |
| 87 | Robustness and Robust Design of MPC for Nonlinear Discrete-Time Systems. , 2007, , 239-254. | | 82 |
| 88 | A model predictive control scheme for consensus in multi-agent systems with single-integrator dynamics and input constraints. , 2007, , . | | 17 |
| 89 | Hierarchical model predictive control. , 2007, , . | | 47 |
| 90 | A receding horizon approach to the multiobjective control problem. , 2007, , . | | 16 |

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| 91 | Integrated Breathing Model and Multi-Variable Control Approach for Air Management in Advanced Gasoline Engine. , 2006, , . | | 2 |
| 92 | The Recursive Estimation of Time Delay in Sampled-Data Control Systems. Control and Dynamic Systems, 1995, 73, 159-206. | 0.1 | 3 |
| 93 | Workbench Techniques in the Design of Digital Control Systems. Control and Dynamic Systems, 1995, 72, 1-23. | 0.1 | 0 |
| 94 | Stabilization, Regulation, and Optimization of Multirate Sampled-Data Systems. Control and Dynamic Systems, 1995, , 95-130. | 0.1 | 13 |
| 95 | A digital temperature control system. Review of Scientific Instruments, 1991, 62, 1311-1316. | 1.3 | 4 |
| 96 | On the choice of the horizon in long-range predictive control”Some simple criteria. Automatica, 1990, 26, 915-917. | 5.0 | 63 |
| 97 | Self-tuning control of systems with infrequent and delayed output sampling. IEE Proceedings D: Control Theory and Applications, 1988, 135, 213. | 0.4 | 37 |
| 98 | A multivariable self-tuning controller with integral action. Automatica, 1986, 22, 619-627. | 5.0 | 28 |
| 99 | Stochastic identification and digital control of a heat exchanger: a simulation test case. Journal of the Franklin Institute, 1984, 318, 29-56. | 3.4 | 5 |