

# Ugo Rosolia

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

988  
citations

840776

11  
h-index

839539

18  
g-index

37  
all docs

37  
docs citations

37  
times ranked

622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning Model Predictive Control for Iterative Tasks. A Data-Driven Control Framework. IEEE Transactions on Automatic Control, 2018, 63, 1883-1896.	5.7	191
2	Autonomous Vehicle Control: A Nonconvex Approach for Obstacle Avoidance. IEEE Transactions on Control Systems Technology, 2017, 25, 469-484.	5.2	115
3	Autonomous Vehicles on the Edge: A Survey on Autonomous Vehicle Racing. IEEE Open Journal of Intelligent Transportation Systems, 2022, 3, 458-488.	4.8	80
4	Autonomous racing using learning Model Predictive Control. , 2017, , .		71
5	Data-Driven Predictive Control for Autonomous Systems. Annual Review of Control, Robotics, and Autonomous Systems, 2018, 1, 259-286.	11.8	59
6	Learning How to Autonomously Race a Car: A Predictive Control Approach. IEEE Transactions on Control Systems Technology, 2020, 28, 2713-2719.	5.2	54
7	Autonomous racing using Linear Parameter Varying-Model Predictive Control (LPV-MPC). Control Engineering Practice, 2020, 95, 104270.	5.5	51
8	Learning Model Predictive Control for Iterative Tasks: A Computationally Efficient Approach for Linear System. IFAC-PapersOnLine, 2017, 50, 3142-3147.	0.9	37
9	Repetitive learning model predictive control: An autonomous racing example. , 2017, , .		33
10	Safety Augmented Value Estimation From Demonstrations (SAVED): Safe Deep Model-Based RL for Sparse Cost Robotic Tasks. IEEE Robotics and Automation Letters, 2020, 5, 3612-3619.	5.1	33
11	A Robust Scenario MPC Approach for Uncertain Multi-Modal Obstacles. , 2021, 5, 947-952.		29
12	Multi-Rate Control Design Leveraging Control Barrier Functions and Model Predictive Control Policies. , 2021, 5, 1007-1012.		27
13	Adaptive MPC for Iterative Tasks. , 2018, , .		24
14	Interactive Multi-Modal Motion Planning With Branch Model Predictive Control. IEEE Robotics and Automation Letters, 2022, 7, 5365-5372.	5.1	23
15	Robust learning model predictive control for iterative tasks: Learning from experience. , 2017, , .		18
16	Decentralized Task and Path Planning for Multi-Robot Systems. IEEE Robotics and Automation Letters, 2021, 6, 4337-4344.	5.1	15
17	A Simple Robust MPC for Linear Systems with Parametric and Additive Uncertainty. , 2021, , .		14
18	Robust Learning Model-Predictive Control for Linear Systems Performing Iterative Tasks. IEEE Transactions on Automatic Control, 2022, 67, 856-869.	5.7	12

#	ARTICLE	IF	CITATIONS
19	A Stochastic MPC Approach with Application to Iterative Learning. , 2018, , .		11
20	Sample-Based Learning Model Predictive Control for Linear Uncertain Systems. , 2019, , .		11
21	Multi-Rate Control Design Under Input Constraints via Fixed-Time Barrier Functions. , 2022, 6, 608-613.		10
22	NLMPC for Real Time Path Following and Collision Avoidance. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2015, 8, 401-405.	0.3	8
23	Minimum time learning model predictive control. International Journal of Robust and Nonlinear Control, 2021, 31, 8830-8854.	3.7	8
24	Robust Predictive Control for Quadrupedal Locomotion: Learning to Close the Gap Between Reduced- and Full-Order Models. IEEE Robotics and Automation Letters, 2022, 7, 6622-6629.	5.1	8
25	Unified Multirate Control: From Low-Level Actuation to High-Level Planning. IEEE Transactions on Automatic Control, 2022, 67, 6627-6640.	5.7	8
26	Learning Model Predictive Control for Periodic Repetitive Tasks. , 2020, , .		7
27	Distributed Learning Model Predictive Control for Linear Systems. , 2020, , .		6
28	MLNav: Learning to Safely Navigate on Martian Terrains. IEEE Robotics and Automation Letters, 2022, 7, 5461-5468.	5.1	6
29	Control of Unknown Nonlinear Systems with Linear Time-Varying MPC. , 2020, , .		5
30	A Constructive Method for Designing Safe Multirate Controllers for Differentially-Flat Systems. , 2022, 6, 2138-2143.		5
31	Iterative Model Predictive Control for Piecewise Systems. , 2022, 6, 842-847.		3
32	ABC-LMPC: Safe Sample-Based Learning MPC for Stochastic Nonlinear Dynamical Systems with Adjustable Boundary Conditions. Springer Proceedings in Advanced Robotics, 2021, , 1-17.	1.3	2
33	A decentralized algorithm for control of autonomous agents coupled by feasibility constraints. , 2017, , .		1
34	Simple Policy Evaluation for Data-Rich Iterative Tasks. , 2019, , .		1
35	Output-Lifted Learning Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 365-370.	0.9	1
36	Learning to Control an Unstable System with One Minute of Data: Leveraging Gaussian Process Differentiation in Predictive Control. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
37	A Cooperative Driving NLMPC for Real Time Collision Avoidance. , 2015, , .		0