

Jan M Maciejowski

List of Publications by Year in descending order

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117
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2,535
citations

279798

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44
g-index

119
all docs

119
docs citations

119
times ranked

1730
citing authors

#	ARTICLE	IF	CITATIONS
1	Recursive maximum likelihood estimation with τ -distribution noise model. Automatica, 2021, 132, 109789.	5.0	6
2	A Combined Cycle Gas Turbine Model for Heat and Power Dispatch Subject to Grid Constraints. IEEE Transactions on Sustainable Energy, 2020, 11, 448-456.	8.8	20
3	Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. IEEE Systems Journal, 2020, 14, 2801-2812.	4.6	4
4	Lazily Adapted Constant Kinky Inference for nonparametric regression and model-reference adaptive control. Automatica, 2020, 122, 109216.	5.0	17
5	Self-triggered MPC with performance guarantee using relaxed dynamic programming. Automatica, 2020, 114, 108803.	5.0	18
6	A general dissipativity constraint for feedback system design, with emphasis on MPC. International Journal of Robust and Nonlinear Control, 2019, 29, 4775-4796.	3.7	5
7	A clusterized energy management with linearized losses in the presence of multiple types of distributed generation. International Journal of Electrical Power and Energy Systems, 2019, 113, 9-22.	5.5	12
8	Robust Self-triggered MPC for Constrained Linear Systems with Additive Disturbance. , 2019, , .		1
9	A Generic Method to Model CO ₂ Emission Performances of Combined Cycle Power Plants for Environmental Unit Commitment. Energy Technology, 2018, 6, 72-83.	3.8	3
10	Right-half plane zeros are not necessary for inverse response. , 2018, , .		3
11	A Generic Benchmark for Power Market Analysis From Generation Mix To End-Users. , 2018, , .		0
12	Nonlinear Set Membership Regression with Adaptive Hyper-Parameter Estimation for Online Learning and Control. , 2018, , .		4
13	Fastened Unit Commitment with Loss Linearization for Distributed Generation Planning Studies. , 2018, , .		1
14	A trust-region based sequential linear programming approach for AC optimal power flow problems. Electric Power Systems Research, 2018, 165, 134-143.	3.6	16
15	Implications of dissipativity on stability of economic model predictive control – The indefinite linear quadratic case. Systems and Control Letters, 2017, 100, 43-50.	2.3	14
16	Model predictive control of a CSTR: A comparative study among linear and nonlinear model approaches. , 2017, , .		3
17	Implications of discretization on dissipativity and economic model predictive control. Journal of Process Control, 2017, 49, 1-8.	3.3	4
18	A generic method to model carbon emission of combined cycle for environmental power dispatch. , 2017, , .		1

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19	Improved Bernstein Optimization Based Nonlinear Model Predictive Control Scheme for Power Systems. IFAC-PapersOnLine, 2017, 50, 537-544.	0.9	0
20	Learning-based Nonlinear Model Predictive Control * *The authors would like to acknowledge to the Spanish MINECO Grant PRX15-00300 and projects DPI2013-48243-C2-2-R and DPI2016-76493-C3-1-R as well as to the Engineering and Physical Research Council, grant no. EP/J012300/1 for funding this work.. IFAC-PapersOnLine, 2017, 50, 7769-7776.	0.9	40
21	Banded Null Basis and ADMM for Embedded MPC * *This research is supported by the National Research Foundation, Prime Ministers Office, Singapore under its CREATE programme. IFAC-PapersOnLine, 2017, 50, 13170-13175.	0.9	6
22	Hierarchical EMS for aggregated BESSs in energy and performance-based regulation markets. , 2017, , .		0
23	Nonlinear model predictive control based on Bernstein global optimization with application to a nonlinear CSTR. , 2016, , .		3
24	A longitudinal flight control law to accommodate sensor loss in the RECONFIGURE benchmark. Annual Reviews in Control, 2016, 42, 212-223.	7.9	8
25	Economic Equivalence of Economic Model Predictive Control and Hierarchical Control Schemes. Industrial & Engineering Chemistry Research, 2016, 55, 10978-10989.	3.7	2
26	Model predictive control with prioritised actuators. , 2015, , .		3
27	Distributed Moving Horizon Estimation for power systems. , 2015, , .		3
28	Field programmable gate array based predictive control system for spacecraft rendezvous in elliptical orbits. Optimal Control Applications and Methods, 2015, 36, 585-607.	2.1	19
29	Incorporating control performance tuning into economic model predictive control. , 2015, , .		0
30	Multiplexed model predictive control of interconnected systems. , 2015, , .		1
31	A longitudinal flight control law based on robust MPC and H 2 methods to accommodate sensor loss in the RECONFIGURE benchmark â€¦â€¦The research leading to these results has received funding from the European Union Seventh Framework Programme FP7/2007-2013 under grant agreement number 314 544, project â€œRECONFIGUREâ€œ. IFAC-PapersOnLine, 2015, 48, 1000-1005.	0.9	6
32	Mapping Adaptive Particle Filters to Heterogeneous Reconfigurable Systems. ACM Transactions on Reconfigurable Technology and Systems, 2015, 7, 1-17.	2.5	7
33	Model predictive control via quadratic dissipativity constraint. , 2014, , .		11
34	Application of quadratically-constrained model predictive control in power systems. , 2014, , .		4
35	Closed-loop development for dissipativity constraint. , 2014, , .		3
36	Model predictive control of nonlinear input-affine systems with feasibility and stability constraints. , 2014, , .		5

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37	Predictive Control Using an FPGA With Application to Aircraft Control. IEEE Transactions on Control Systems Technology, 2014, 22, 1006-1017.	5.2	72
38	SMCGen: Generating Reconfigurable Design for Sequential Monte Carlo Applications. , 2014, , .		2
39	Real-time optimisation-based planning and scheduling of vehicle trajectories. , 2014, , .		1
40	Reconfigurable predictive control for redundantly actuated systems with parameterised input constraints. Systems and Control Letters, 2014, 66, 8-15.	2.3	10
41	Dynamic modelling of the brushless doubly fed machine. IET Electric Power Applications, 2013, 7, 544-556.	1.8	25
42	Designing Output-Feedback Predictive Controllers by Reverse-Engineering Existing LTI Controllers. IEEE Transactions on Automatic Control, 2013, 58, 2934-2939.	5.7	17
43	Terminal spacecraft rendezvous and capture with LASSO model predictive control. International Journal of Control, 2013, 86, 2104-2113.	1.9	35
44	Corrigendum to "Robust variable horizon MPC with move blocking" [Systems Control Lett. 61 (4) (2012) 587-594]. Systems and Control Letters, 2013, 62, 451-452.	2.3	0
45	Decoupling method for vector control of the brushless doubly-fed machine. , 2013, , .		3
46	Fault tolerant control using Gaussian processes and model predictive control. , 2013, , .		17
47	Soft-constrained ∞ -MPC for robust LTI tracking: Enlarged feasible region and an ISS gain estimate. , 2013, , .		4
48	Parallelisation of Sequential Monte Carlo for real-time control in air traffic management. , 2013, , .		2
49	Output disturbance rejection using parallel model predictive control. , 2013, , .		1
50	Stabilising terminal cost and terminal controller for ∞ -MPC: enhanced optimality and region of attraction. , 2013, , .		8
51	Editorial: Implementation of feedback controllers. IET Control Theory and Applications, 2012, 6, 1001-1002.	2.1	0
52	Optimal constraint tightening policies for robust variable horizon model predictive control. , 2012, , .		9
53	Modelling and control of nonlinear systems using Gaussian processes with partial model information. , 2012, , .		18
54	Adaptive Sequential Monte Carlo approach for real-time applications. , 2012, , .		4

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55	Sequential modelling of thermal energy: New potential for energy optimisation in papermaking. Applied Energy, 2012, 89, 97-105.	10.1	18
56	Model predictive control system design and implementation for spacecraft rendezvous. Control Engineering Practice, 2012, 20, 695-713.	5.5	94
57	Multiplexed model predictive control. Automatica, 2012, 48, 396-401.	5.0	32
58	Robust variable horizon MPC with move blocking. Systems and Control Letters, 2012, 61, 587-594.	2.3	38
59	Data-Based Robust Multiobjective Optimization of Interconnected Processes: Energy Efficiency Case Study in Papermaking. IEEE Transactions on Neural Networks, 2011, 22, 2324-2338.	4.2	14
60	Reinforcement learning with reference tracking control in continuous state spaces. , 2011, , .		7
61	Simulation and analysis of powertrain hybridisation for construction equipment. International Journal of Electric and Hybrid Vehicles, 2010, 2, 240.	0.3	0
62	Optimal switching control of burner setting for a compact marine boiler design. Control Engineering Practice, 2010, 18, 665-675.	5.5	12
63	Robust Multiplexed Model Predictive Control for agent-based conflict resolution. , 2010, , .		4
64	Surface excavation with model predictive control. , 2010, , .		1
65	Stochastic Optimization on Continuous Domains With Finite-Time Guarantees by Markov Chain Monte Carlo Methods. IEEE Transactions on Automatic Control, 2010, 55, 2858-2863.	5.7	21
66	Fault Tolerant Flight Control - A Survey. Lecture Notes in Control and Information Sciences, 2010, , 47-89.	1.0	40
67	Stability of model predictive control using Markov Chain Monte Carlo optimisation. , 2009, , .		5
68	Verifying stability of approximate explicit MPC. , 2009, , .		6
69	Discussion on: "Min-max Model Predictive Control of Nonlinear Systems: A Unifying Overview on Stability" European Journal of Control, 2009, 15, 22-25.	2.6	2
70	MPC design for fault-tolerant flight control purposes based upon an existing output feedback controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 253-258.	0.4	4
71	Discussion on: "Reconfigurable Fault-tolerant Control : A Tutorial Introduction" European Journal of Control, 2008, 14, 387-389.	2.6	1
72	Collective behavior coordination with predictive mechanisms. IEEE Circuits and Systems Magazine, 2008, 8, 67-85.	2.3	74

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73	Efficient point location via subdivision walking with application to explicit MPC. , 2007, , .		13
74	Robust multiplexed model predictive control. , 2007, , .		10
75	Lexicographic perturbation for multiparametric linear programming with applications to control. Automatica, 2007, 43, 1808-1816.	5.0	52
76	Optimal Beer Fermentation. Journal of the Institute of Brewing, 2007, 113, 325-333.	2.3	24
77	A FPGA implementation of model predictive control. , 2006, , .		95
78	Optimization over state feedback policies for robust control with constraints. Automatica, 2006, 42, 523-533.	5.0	445
79	Monte Carlo Optimization for Conflict Resolution in Air Traffic Control. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 470-482.	8.0	128
80	The changing face and role of CACSD. , 2006, , .		0
81	Reverse Search for Parametric Linear Programming. , 2006, , .		4
82	MULTIPLYED MODEL PREDICTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 574-579.	0.4	28
83	Subspace identification "a" a Markov parameter approach. International Journal of Control, 2005, 78, 1412-1436.	1.9	7
84	A System Identification in the Presence of Nonlinear Sensors. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 142-148.	0.2	7
85	Feedback min-max model predictive control using a single linear program: robust stability and the explicit solution. International Journal of Robust and Nonlinear Control, 2004, 14, 395-413.	3.7	183
86	Properties of a new parameterization for the control of constrained systems with disturbances. , 2004, , .		10
87	Model Predictive Control: A New Paradigm for Automatic Control 2002 Presidential Address. Measurement and Control, 2003, 36, 44-47.	1.8	0
88	MPC fault-tolerant flight control case study: flight 1862. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 119-124.	0.4	119
89	Discussion on: "Variable Horizon Robust Predictive Control via Adjustable Controllability Sets" by M. N. Demenkov and N. B. Filimonov. European Journal of Control, 2001, 7, 605-608.	2.6	0
90	Unbiased bilinear subspace system identification methods. , 2001, , .		1

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91	Multi-objective prioritisation and reconfiguration for the control of constrained hybrid systems. , 2000, , .		26
92	Modelling and predictive control: Enabling technologies for reconfiguration. Annual Reviews in Control, 1999, 23, 13-23.	7.9	32
93	Reconfigurable Flight Control During Actuator Failures Using Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 7979-7984.	0.4	9
94	Tuning robust model predictive controllers using LQG/LTR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 1231-1236.	0.4	0
95	Automatic Tuning for Model Based Predictive Control During Reconfiguration. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 237-242.	0.4	6
96	System identification using balanced parametrizations. IEEE Transactions on Automatic Control, 1997, 42, 956-974.	5.7	34
97	Realization of stable models with subspace methods. Automatica, 1996, 32, 1587-1595.	5.0	53
98	Constructive algebra methods for the L ₂ -problem for stable linear systems. Automatica, 1996, 32, 1645-1657.	5.0	26
99	Balanced realization for state-space identification and optimal output regulation. AIChE Journal, 1995, 41, 1217-1228.	3.6	0
100	Guaranteed stability with subspace methods. Systems and Control Letters, 1995, 26, 153-156.	2.3	69
101	Robustness of multivariable smith predictors. Journal of Process Control, 1994, 4, 29-32.	3.3	14
102	Multivariable toolbox for use with MATLAB. Control Systems Magazine, 1989, 9, 59-65.	0.0	13
103	Two tutorial examples of multivariable control system design. Transactions of the Institute of Measurement and Control, 1985, 7, 97-106.	1.7	2
104	Decoupled control of a macroeconomic model using frequency-domain methods. Journal of Economic Dynamics and Control, 1984, 7, 55-77.	1.6	17
105	A Database Approach to Computer-Aided Control System Design. , 1983, , .		7
106	Asymptotic Recovery for Discrete-Time Systems. , 1983, , .		2
107	CLADP: The Cambridge linear analysis and design programs. Control Systems Magazine, 1982, 2, 3-8.	0.0	30
108	The Cambridge Linear Analysis and Design Programs - CLADP. , 1982, , .		2

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109	Model discrimination using an algorithmic information criterion. Automatica, 1979, 15, 579-593.	5.0	30
110	Computational chains for CACSD using Matlab containers. , 0, , .		2
111	Invariant sets for constrained nonlinear discrete-time systems with application to feasibility in model predictive control. , 0, , .		101
112	Robust finite horizon MPC without terminal constraints. , 0, , .		3
113	Designing model predictive controllers with prioritised constraints and objectives. , 0, , .		45
114	Robustly stable feedback min-max model predictive control. , 0, , .		17
115	A simple rotor current observer with an arbitrary rate of convergence for the brushless doubly-fed (induction) machine (BDFM). , 0, , .		0
116	State Feedback Policies for Robust Receding Horizon Control: Uniqueness, Continuity, and Stability. , 0, , .		2
117	Robust feasibility in model predictive control: necessary and sufficient conditions. , 0, , .		13