

# Mark R Cannon

## List of Publications by Citations

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139  
papers

2,702  
citations

29  
h-index

48  
g-index

152  
ext. papers

3,335  
ext. citations

3.8  
avg. IF

5.59  
L-index

#	Paper	IF	Citations
139	. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 194-200	5.9	128
138	Model Predictive Control <b>2016</b> ,		122
137	Explicit use of probabilistic distributions in linear predictive control. <i>Automatica</i> , <b>2010</b> , 46, 1719-1724	5.7	117
136	Probabilistic Constrained MPC for Multiplicative and Additive Stochastic Uncertainty. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1626-1632	5.9	103
135	Homothetic tube model predictive control. <i>Automatica</i> , <b>2012</b> , 48, 1631-1638	5.7	96
134	Parameterized Tube Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2746-2761	5.9	91
133	Space-frequency localized basis function networks for nonlinear system estimation and control. <i>Neurocomputing</i> , <b>1995</b> , 9, 293-342	5.4	90
132	Efficient nonlinear model predictive control algorithms. <i>Annual Reviews in Control</i> , <b>2004</b> , 28, 229-237	10.3	81
131	Who needs QP for linear MPC anyway?. <i>Automatica</i> , <b>2002</b> , 38, 879-884	5.7	79
130	Optimizing prediction dynamics for robust MPC. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1892-1897	5.9	78
129	Model predictive control for systems with stochastic multiplicative uncertainty and probabilistic constraints. <i>Automatica</i> , <b>2009</b> , 45, 167-172	5.7	72
128	Nonlinear model predictive control with polytopic invariant sets. <i>Automatica</i> , <b>2003</b> , 39, 1487-1494	5.7	68
127	Stochastic MPC with inequality stability constraints. <i>Automatica</i> , <b>2006</b> , 42, 2169-2174	5.7	59
126	Robust Tube MPC for Linear Systems With Multiplicative Uncertainty. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 1087-1092	5.9	55
125	Constrained receding horizon predictive control for nonlinear systems. <i>Automatica</i> , <b>2002</b> , 38, 2093-2102	5.7	54
124	Robust MPC with recursive model update. <i>Automatica</i> , <b>2019</b> , 103, 461-471	5.7	51
123	Stochastic tube MPC with state estimation. <i>Automatica</i> , <b>2012</b> , 48, 536-541	5.7	50

122	Gaming strategy for electric power with random demand. <i>IEEE Transactions on Power Systems</i> , <b>2005</b> , 20, 1283-1292	7	49
121	General interpolation in MPC and its advantages. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1092-1096	5.9	49
120	Probabilistic tubes in linear stochastic model predictive control. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 747-753	2.4	46
119	Non-linear model based predictive control. <i>International Journal of Control</i> , <b>1999</b> , 72, 919-928	1.5	45
118	Robust MPC Tower Damping for Variable Speed Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 290-296	4.8	43
117	Linear Quadratic Feasible Predictive Control. <i>Automatica</i> , <b>1998</b> , 34, 1583-1592	5.7	43
116	Robust Tubes in Nonlinear Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 1942-1947	5.9	42
115	Recent developments in stochastic MPC and sustainable development. <i>Annual Reviews in Control</i> , <b>2004</b> , 28, 23-35	10.3	39
114	Distributed Stochastic MPC of Linear Systems With Additive Uncertainty and Coupled Probabilistic Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3474-3481	5.9	34
113	Extended invariance and its use in model predictive control. <i>Automatica</i> , <b>2005</b> , 41, 2163-2169	5.7	34
112	Cooperative distributed stochastic MPC for systems with state estimation and coupled probabilistic constraints. <i>Automatica</i> , <b>2015</b> , 61, 89-96	5.7	33
111	Efficient MPC optimization using Pontryagin's minimum principle. <i>International Journal of Robust and Nonlinear Control</i> , <b>2008</b> , 18, 831-844	3.6	31
110	MPC as a tool for sustainable development integrated policy assessment. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 145-149	5.9	26
109	. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1443-1447	5.9	26
108	Energy Management in Plug-In Hybrid Electric Vehicles: Convex Optimization Algorithms for Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2191-2203	4.8	24
107	On efficient computation of low-complexity controlled invariant sets for uncertain linear systems. <i>International Journal of Control</i> , <b>2010</b> , 83, 1339-1346	1.5	23
106	Efficient non-linear model based predictive control. <i>International Journal of Control</i> , <b>2001</b> , 74, 361-372	1.5	21
105	Infinite horizon predictive control of constrained continuous-time linear systems. <i>Automatica</i> , <b>2000</b> , 36, 943-955	5.7	20

104	Computationally efficient algorithms for constraint handling with guaranteed stability and near optimality. <i>International Journal of Control</i> , <b>2001</b> , 74, 1678-1689	1.5	20
103	Efficient active set optimization in triple mode MPC. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1307-1312	5.9	19
102	Successive Linearization NMPC for a Class of Stochastic Nonlinear Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2009</b> , 249-262	0.5	19
101	Equi-normalization and exact scaling dynamics in homothetic tube model predictive control. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 209-217	2.4	18
100	Constrained predictive control and its application to a coupled-tanks apparatus. <i>International Journal of Control</i> , <b>2001</b> , 74, 552-564	1.5	17
99	Consensus in opinion dynamics as a repeated game. <i>Automatica</i> , <b>2018</b> , 90, 204-211	5.7	16
98	Adaptive Model Predictive Control with Robust Constraint Satisfaction. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 3313-3318	0.7	16
97	Robust MPC strategy with optimized polytopic dynamics for linear systems with additive and multiplicative uncertainty. <i>Systems and Control Letters</i> , <b>2015</b> , 81, 34-41	2.4	16
96	Fully parameterized tube model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 1330-1361	3.6	16
95	MPC for Stochastic Systems <b>2007</b> , 255-268		16
94	Nonlinear constrained predictive control applied to a coupled-tanks apparatus. <i>IET Control Theory and Applications</i> , <b>2001</b> , 148, 17-24		15
93	LTV models in MPC for sustainable development. <i>International Journal of Control</i> , <b>2006</b> , 79, 63-73	1.5	14
92	The design of dynamics in the prediction structure of robust MPC. <i>International Journal of Control</i> , <b>2013</b> , 86, 2096-2103	1.5	12
91	Explicit use of probabilistic distributions in linear predictive control <b>2010</b> ,		12
90	Enlargement of polytopic terminal region in NMPC by interpolation and partial invariance. <i>Automatica</i> , <b>2004</b> , 40, 311-317	5.7	12
89	Modelling and optimisation for sustainable development policy assessment. <i>European Journal of Operational Research</i> , <b>2005</b> , 164, 475-490	5.6	12
88	Efficient Constrained Model Predictive Control with Asymptotic Optimality. <i>SIAM Journal on Control and Optimization</i> , <b>2002</b> , 41, 60-82	1.9	12
87	Robust Adaptive Tube Model Predictive Control <b>2019</b> ,		12

86	Fast Dual-Loop Nonlinear Receding Horizon Control for Energy Management in Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 1060-1070	4.8	12
85	Fast Optimal Energy Management With Engine On/Off Decisions for Plug-in Hybrid Electric Vehicles <b>2019</b> , 3, 1074-1079		11
84	COSMO: A conic operator splitting method for large convex problems <b>2019</b> ,		11
83	Distributed stochastic MPC for systems with parameter uncertainty and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , <b>2018</b> , 28, 2424-2441	3.6	11
82	Efficient prediction strategies for disturbance compensation in stochastic MPC. <i>International Journal of Systems Science</i> , <b>2013</b> , 44, 1344-1353	2.3	11
81	Fast suboptimal predictive control with guaranteed stability. <i>Systems and Control Letters</i> , <b>1998</b> , 35, 19-29.	2.4	11
80	An interpolation strategy for discrete-time bilinear MPC problems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 775-778	5.9	11
79	Recent developments in generalized predictive control for continuous-time systems. <i>International Journal of Control</i> , <b>1999</b> , 72, 164-173	1.5	11
78	Stochastic tube MPC for LPV systems with probabilistic set inclusion conditions <b>2014</b> ,		10
77	Fully Parameterized Tube MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 197-202		10
76	Linear stochastic MPC under finitely supported multiplicative uncertainty <b>2012</b> ,		10
75	Stochastic Model Predictive Control with Discounted Probabilistic Constraints <b>2018</b> ,		10
74	Robust MPC for linear systems with bounded multiplicative uncertainty <b>2012</b> ,		9
73	Dynamic non-minimum phase compensation for SISO nonlinear, affine in the input systems. <i>Automatica</i> , <b>2006</b> , 42, 1969-1975	5.7	9
72	Constrained MPC using feedback linearization on SISO bilinear systems with unstable inverse dynamics. <i>International Journal of Control</i> , <b>2005</b> , 78, 638-646	1.5	9
71	Optimal Power Allocation in Battery/Supercapacitor Electric Vehicles Using Convex Optimization. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12751-12762	6.8	9
70	Regions of attraction and recursive feasibility in robust MPC <b>2013</b> ,		8
69	Nonlinear predictive control of hot strip rolling mill. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 365-380	3.6	8

68	Constrained NMPC via state-space partitioning for input affine non-linear systems. <i>International Journal of Control</i> , <b>2003</b> , 76, 1516-1526	1.5	8
67	Optimal energy management for hybrid electric aircraft. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 6043-6049	0.7	8
66	Striped Parameterized Tube Model Predictive Control. <i>Automatica</i> , <b>2016</b> , 67, 303-309	5.7	8
65	An active set solver for input-constrained robust receding horizon control. <i>Automatica</i> , <b>2014</b> , 50, 155-163	5.7	7
64	Stochastic MPC for Systems with both Multiplicative and Additive Disturbances. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 2291-2296		7
63	Robust positively invariant sets for state dependent and scaled disturbances <b>2015</b> ,		7
62	Improvements in the efficiency of linear MPC. <i>Automatica</i> , <b>2010</b> , 46, 226-229	5.7	7
61	A line search improvement of efficient MPC. <i>Automatica</i> , <b>2010</b> , 46, 1920-1924	5.7	7
60	Nonlinear MPC for supervisory control of hybrid electric vehicles <b>2016</b> ,		7
59	Stochastic MPC for Additive and Multiplicative Uncertainty Using Sample Approximations. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3883-3888	5.9	7
58	An ADMM Algorithm for MPC-based Energy Management in Hybrid Electric Vehicles with Nonlinear Losses <b>2018</b> ,		7
57	Recursively feasible Robust MPC for linear systems with additive and multiplicative uncertainty using optimized polytopic dynamics <b>2013</b> ,		6
56	An algorithm for reducing complexity in parametric predictive control. <i>International Journal of Control</i> , <b>2005</b> , 78, 1511-1520	1.5	6
55	Invariant sets for feedback linearisation based nonlinear predictive control. <i>IET Control Theory and Applications</i> , <b>2005</b> , 152, 259-265		6
54	On the Computation of $\lambda$ - Contractive Sets for Linear Constrained Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1498-1504	5.9	5
53	Striped Parameterized Tube Model Predictive Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 11998-12003		5
52	How scaling of the disturbance set affects robust positively invariant sets for linear systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2017</b> , 27, 3236-3258	3.6	5
51	A missing link between nonlinear MPC schemes with guaranteed stability <b>2015</b> ,		5

50	<b>2010,</b>		5
49	Robust and stochastic linear MPC for systems subject to multiplicative uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 335-341		5
48	InputOutput feedback linearization for nonminimum phase nonlinear systems through periodic use of synthetic outputs. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 626-630	2.4	5
47	Offline tube design for efficient implementation of parameterized tube model predictive control <b>2012,</b>		4
46	Periodic use of time-varying state feedbacks for the receding horizon control of bilinear systems. <i>International Journal of Control, Automation and Systems</i> , <b>2009</b> , 7, 151-155	2.9	4
45	A Youla parameter approach to robust constrained linear model predictive control <b>2009,</b>		4
44	Extension of efficient predictive control to the nonlinear case. <i>International Journal of Robust and Nonlinear Control</i> , <b>2005</b> , 15, 219-231	3.6	4
43	A clique graph based merging strategy for decomposable SDPs. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7355-7361	0.7	4
42	Robust adaptive model predictive control: Performance and parameter estimation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020,</b>	3.6	4
41	COSMO: A Conic Operator Splitting Method for Convex Conic Problems. <i>Journal of Optimization Theory and Applications</i> , <b>2021</b> , 190, 779-810	1.6	4
40	Robust consensus in social networks and coalitional games. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 1537-1542		3
39	An active set solver for input-constrained robust receding horizon control <b>2011,</b>		3
38	Relaxation of output zeroing for bilinear non-minimum phase systems. <i>International Journal of Control</i> , <b>2008</b> , 81, 1139-1146	1.5	3
37	Mean-variance receding horizon control for discrete time linear stochastic systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 15321-15326		3
36	MPC on state space models with stochastic input map <b>2006,</b>		3
35	Asymmetric constraints with polytopic sets in MPC with application to coupled tanks system. <i>International Journal of Robust and Nonlinear Control</i> , <b>2004</b> , 14, 341-353	3.6	3
34	Stability, Feasibility, Optimality and the Degrees of Freedom in Constrained Predictive Control <b>2000,</b> 99-113		3
33	Active set solver for min-max robust control with state and input constraints. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 3209-3231	3.6	3

32	Some observations on the activity of terminal constraints in linear MPC <b>2016</b> ,		3
31	Convergence of Stochastic Nonlinear Systems and Implications for Stochastic Model-Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 2832-2839	5.9	3
30	Fast Self-Triggered MPC for Constrained Linear Systems With Additive Disturbances. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 3624-3637	5.9	3
29	ADMM for MPC with state and input constraints, and input nonlinearity <b>2018</b> ,		2
28	Time-average constraints in stochastic Model Predictive Control <b>2017</b> ,		2
27	Application of Optimal Control Algorithm to Inertia Friction Welding Process. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 891-898	4.8	2
26	An active set solver for min-max robust control <b>2013</b> ,		2
25	Efficient robust output feedback MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 7957-7962		2
24	Efficient MPC Optimization using Pontryagin's Minimum Principle <b>2006</b> ,		2
23	Stochastic MPC with Dynamic Feedback Gain Selection and Discounted Probabilistic Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
22	Scenario Model Predictive Control for Data-Based Energy Management in Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-12	4.8	2
21	Introduction to Stochastic MPC <b>2016</b> , 243-269		1
20	Maximising the guaranteed feasible set for stochastic MPC with chance constraints. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 8220-8225	0.7	1
19	On prediction strategies in stochastic MPC <b>2011</b> ,		1
18	A line search improvement of efficient MPC <b>2010</b> ,		1
17	Robust tubes in nonlinear model predictive control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 208-213		1
16	MPC Stability Constraints and Their Implementations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 205-212		1
15	Output feedback stochastic MPC with packet losses. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7105-7110	0.7	1



14	Admissible sets for chance-constrained difference inclusions <b>2016</b> ,		1
13	Parametric robust positively invariant sets for linear systems with scaled disturbances <b>2016</b> ,		1
12	Robust MPC for Multiplicative and Mixed Uncertainty <b>2016</b> , 175-240		0
11	Closed-Loop Optimization Strategies for Additive Uncertainty <b>2016</b> , 121-174		0
10	Closed-Loop Stabilizing MPC for Discrete-Time Bilinear Systems. <i>European Journal of Control</i> , <b>2002</b> , 8, 304-314	2.5	0
9	Invariant cover: Existence, cardinality bounds, and computation. <i>Automatica</i> , <b>2021</b> , 129, 109588	5.7	0
8	Stochastic output feedback MPC with intermittent observations. <i>Automatica</i> , <b>2022</b> , 141, 110282	5.7	0
7	Open-Loop Optimization Strategies for Additive Uncertainty <b>2016</b> , 67-119		
6	Feasibility, Stability, Convergence and Markov Chains <b>2016</b> , 271-301		
5	MPC with No Model Uncertainty <b>2016</b> , 13-64		
4	Robust receding horizon control for linear systems with state and input dependent disturbances. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 533-539	0.7	
3	Probabilistic constrained MPC for systems with multiplicative and additive stochastic uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 15297-15302		
2	Constrained predictive control of linear distributed parameter systems. <i>International Journal of Control</i> , <b>2004</b> , 77, 941-948	1.5	
1	Explicit Use of Probability Distributions in SMPC <b>2016</b> , 303-341		