Mark R Cannon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Scenario Model Predictive Control for Data-Based Energy Management in Plug-In Hybrid Electric Vehicles. *IEEE Transactions on Control Systems Technology*, **2022**, 1-12	4.8	2
138	Stochastic output feedback MPC with intermittent observations. *Automatica*, **2022**, 141, 110282	5.7	0
137	Stochastic MPC with Dynamic Feedback Gain Selection and Discounted Probabilistic Constraints. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
136	Invariant cover: Existence, cardinality bounds, and computation. *Automatica*, **2021**, 129, 109588	5.7	0
135	Convergence of Stochastic Nonlinear Systems and Implications for Stochastic Model-Predictive Control. *IEEE Transactions on Automatic Control*, **2021**, 66, 2832-2839	5.9	3
134	Fast Self-Triggered MPC for Constrained Linear Systems With Additive Disturbances. *IEEE Transactions on Automatic Control*, **2021**, 66, 3624-3637	5.9	3
133	COSMO: A Conic Operator Splitting Method for Convex Conic Problems. *Journal of Optimization Theory and Applications*, **2021**, 190, 779-810	1.6	4
132	Output feedback stochastic MPC with packet losses. *IFAC-PapersOnLine*, **2020**, 53, 7105-7110	0.7	1
131	A clique graph based merging strategy for decomposable SDPs. *IFAC-PapersOnLine*, **2020**, 53, 7355-7361	0.7	4
130	Optimal energy management for hybrid electric aircraft. *IFAC-PapersOnLine*, **2020**, 53, 6043-6049	0.7	8
129	Optimal Power Allocation in Battery/Supercapacitor Electric Vehicles Using Convex Optimization. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 12751-12762	6.8	9
128	Robust adaptive model predictive control: Performance and parameter estimation. *International Journal of Robust and Nonlinear Control*, **2020**,	3.6	4
127	Energy Management in Plug-In Hybrid Electric Vehicles: Convex Optimization Algorithms for Model Predictive Control. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 2191-2203	4.8	24
126	Fast Optimal Energy Management With Engine On/Off Decisions for Plug-in Hybrid Electric Vehicles **2019**, 3, 1074-1079		11
125	COSMO: A conic operator splitting method for large convex problems **2019**,		11
124	Robust MPC with recursive model update. *Automatica*, **2019**, 103, 461-471	5.7	51
123	Robust Adaptive Tube Model Predictive Control **2019**,		12

122	Stochastic MPC for Additive and Multiplicative Uncertainty Using Sample Approximations. *IEEE Transactions on Automatic Control*, **2019**, 64, 3883-3888	5.9	7
121	Fast Dual-Loop Nonlinear Receding Horizon Control for Energy Management in Hybrid Electric Vehicles. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1060-1070	4.8	12
120	Consensus in opinion dynamics as a repeated game. *Automatica*, **2018**, 90, 204-211	5.7	16
119	Distributed stochastic MPC for systems with parameter uncertainty and disturbances. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 2424-2441	3.6	11
118	ADMM for MPC with state and input constraints, and input nonlinearity **2018**,		2
117	An ADMM Algorithm for MPC-based Energy Management in Hybrid Electric Vehicles with Nonlinear Losses **2018**,		7
116	Stochastic Model Predictive Control with Discounted Probabilistic Constraints **2018**,		10
115	On the Computation of $lambda$- Contractive Sets for Linear Constrained Systems. *IEEE Transactions on Automatic Control*, **2017**, 62, 1498-1504	5.9	5
114	How scaling of the disturbance set affects robust positively invariant sets for linear systems. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 3236-3258	3.6	5
113	Time-average constraints in stochastic Model Predictive Control **2017**,		2
112	Distributed Stochastic MPC of Linear Systems With Additive Uncertainty and Coupled Probabilistic Constraints. *IEEE Transactions on Automatic Control*, **2017**, 62, 3474-3481	5.9	34
111	Maximising the guaranteed feasible set for stochastic MPC with chance constraints. *IFAC-PapersOnLine*, **2017**, 50, 8220-8225	0.7	1
110	Adaptive Model Predictive Control with Robust Constraint Satisfaction. *IFAC-PapersOnLine*, **2017**, 50, 3313-3318	0.7	16
109	Open-Loop Optimization Strategies for Additive Uncertainty **2016**, 67-119		
108	Robust MPC for Multiplicative and Mixed Uncertainty **2016**, 175-240		0
107	Introduction to Stochastic MPC **2016**, 243-269		1
106	Closed-Loop Optimization Strategies for Additive Uncertainty **2016**, 121-174		0
105	Feasibility, Stability, Convergence and Markov Chains **2016**, 271-301		

104	MPC with No Model Uncertainty **2016**, 13-64		
103	Model Predictive Control **2016**,		122
102	Explicit Use of Probability Distributions in SMPC **2016**, 303-341		
101	Active set solver for min-max robust control with state and input constraints. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 3209-3231	3.6	3
100	Admissible sets for chance-constrained difference inclusions **2016**,		1
99	Parametric robust positively invariant sets for linear systems with scaled disturbances **2016**,		1
98	Some observations on the activity of terminal constraints in linear MPC **2016**,		3
97	Nonlinear MPC for supervisory control of hybrid electric vehicles **2016**,		7
96	Striped Parameterized Tube Model Predictive Control. *Automatica*, **2016**, 67, 303-309	5.7	8
95	Cooperative distributed stochastic MPC for systems with state estimation and coupled probabilistic constraints. *Automatica*, **2015**, 61, 89-96	5.7	33
94	Robust MPC Tower Damping for Variable Speed Wind Turbines. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 290-296	4.8	43
93	Robust Tube MPC for Linear Systems With Multiplicative Uncertainty. *IEEE Transactions on Automatic Control*, **2015**, 60, 1087-1092	5.9	55
92	Robust receding horizon control for linear systems with state and input dependent disturbances. *IFAC-PapersOnLine*, **2015**, 48, 533-539	0.7	
91	Robust positively invariant sets for state dependent and scaled disturbances **2015**,		7
90	Robust MPC strategy with optimized polytopic dynamics for linear systems with additive and multiplicative uncertainty. *Systems and Control Letters*, **2015**, 81, 34-41	2.4	16
89	A missing link between nonlinear MPC schemes with guaranteed stability **2015**,		5
88	An active set solver for input-constrained robust receding horizon control. *Automatica*, **2014**, 50, 155-161	5.7	7
87	Striped Parameterized Tube Model Predictive Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 11998-12003		5

86	Stochastic MPC for Systems with both Multiplicative and Additive Disturbances. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2291-2296		7
85	Robust consensus in social networks and coalitional games. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 1537-1542		3
84	Stochastic tube MPC for LPV systems with probabilistic set inclusion conditions **2014**,		10
83	Efficient prediction strategies for disturbance compensation in stochastic MPC. *International Journal of Systems Science*, **2013**, 44, 1344-1353	2.3	11
82	The design of dynamics in the prediction structure of robust MPC. *International Journal of Control*, **2013**, 86, 2096-2103	1.5	12
81	Equi-normalization and exact scaling dynamics in homothetic tube model predictive control. *Systems and Control Letters*, **2013**, 62, 209-217	2.4	18
80	Application of Optimal Control Algorithm to Inertia Friction Welding Process. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 891-898	4.8	2
79	Recursively feasible Robust MPC for linear systems with additive and multiplicative uncertainty using optimized polytopic dynamics **2013**,		6
78	Regions of attraction and recursive feasibility in robust MPC **2013**,		8
77	An active set solver for min-max robust control **2013**,		2
76	Stochastic tube MPC with state estimation. *Automatica*, **2012**, 48, 536-541	5.7	50
75	Parameterized Tube Model Predictive Control. *IEEE Transactions on Automatic Control*, **2012**, 57, 2746-2761	5.9	91
74	Homothetic tube model predictive control. *Automatica*, **2012**, 48, 1631-1638	5.7	96
73	Offline tube design for efficient implementation of parameterized tube model predictive control **2012**,		4
72	Robust MPC for linear systems with bounded multiplicative uncertainty **2012**,		9
71	Fully parameterized tube model predictive control. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 1330-1361	3.6	16
70	Linear stochastic MPC under finitely supported multiplicative uncertainty **2012**,		10
69	Robust and stochastic linear MPC for systems subject to multiplicative uncertainty. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 335-341		5

68	Robust Tubes in Nonlinear Model Predictive Control. *IEEE Transactions on Automatic Control*, **2011**, 56, 1942-1947	5.9	42
67	On prediction strategies in stochastic MPC **2011**,		1
66	Fully Parameterized Tube MPC. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 197-202		10
65	Efficient robust output feedback MPC. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 7957-7962		2
64	. *IEEE Transactions on Automatic Control*, **2011**, 56, 194-200	5.9	128
63	An active set solver for input-constrained robust receding horizon control **2011**,		3
62	On efficient computation of low-complexity controlled invariant sets for uncertain linear systems. *International Journal of Control*, **2010**, 83, 1339-1346	1.5	23
61	Explicit use of probabilistic distributions in linear predictive control **2010**,		12
60	A line search improvement of efficient MPC **2010**,		1
59	**2010**,		5
58	Robust tubes in nonlinear model predictive control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 208-213		1
57	Improvements in the efficiency of linear MPC. *Automatica*, **2010**, 46, 226-229	5.7	7
56	Explicit use of probabilistic distributions in linear predictive control. *Automatica*, **2010**, 46, 1719-1724	5.7	117
55	A line search improvement of efficient MPC. *Automatica*, **2010**, 46, 1920-1924	5.7	7
54	Periodic use of time-varying state feedbacks for the receding horizon control of bilinear systems. *International Journal of Control, Automation and Systems*, **2009**, 7, 151-155	2.9	4
53	Probabilistic tubes in linear stochastic model predictive control. *Systems and Control Letters*, **2009**, 58, 747-753	2.4	46
52	Model predictive control for systems with stochastic multiplicative uncertainty and probabilistic constraints. *Automatica*, **2009**, 45, 167-172	5.7	72
51	A Youla parameter approach to robust constrained linear model predictive control **2009**,		4

50	Probabilistic Constrained MPC for Multiplicative and Additive Stochastic Uncertainty. *IEEE Transactions on Automatic Control*, **2009**, 54, 1626-1632	5.9	103
49	Successive Linearization NMPC for a Class of Stochastic Nonlinear Systems. *Lecture Notes in Control and Information Sciences*, **2009**, 249-262	0.5	19
48	Relaxation of output zeroing for bilinear non-minimum phase systems. *International Journal of Control*, **2008**, 81, 1139-1146	1.5	3
47	Mean-variance receding horizon control for discrete time linear stochastic systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 15321-15326		3
46	Probabilistic constrained MPC for systems with multiplicative and additive stochastic uncertainty. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 15297-15302		
45	Efficient MPC optimization using Pontryagin's minimum principle. *International Journal of Robust and Nonlinear Control*, **2008**, 18, 831-844	3.6	31
44	Input–output feedback linearization for nonminimum phase nonlinear systems through periodic use of synthetic outputs. *Systems and Control Letters*, **2008**, 57, 626-630	2.4	5
43	MPC for Stochastic Systems **2007**, 255-268		16
42	LTV models in MPC for sustainable development. *International Journal of Control*, **2006**, 79, 63-73	1.5	14
41	MPC on state space models with stochastic input map **2006**,		3
40	Efficient MPC Optimization using Pontryagin's Minimum Principle **2006**,		2
39	MPC as a tool for sustainable development integrated policy assessment. *IEEE Transactions on Automatic Control*, **2006**, 51, 145-149	5.9	26
38	Stochastic MPC with inequality stability constraints. *Automatica*, **2006**, 42, 2169-2174	5.7	59
37	Dynamic non-minimum phase compensation for SISO nonlinear, affine in the input systems. *Automatica*, **2006**, 42, 1969-1975	5.7	9
36	Optimizing prediction dynamics for robust MPC. *IEEE Transactions on Automatic Control*, **2005**, 50, 1892-1897	5.9	78
35	An algorithm for reducing complexity in parametric predictive control. *International Journal of Control*, **2005**, 78, 1511-1520	1.5	6
34	Gaming strategy for electric power with random demand. *IEEE Transactions on Power Systems*, **2005**, 20, 1283-1292	7	49
33	Extended invariance and its use in model predictive control. *Automatica*, **2005**, 41, 2163-2169	5.7	34

32	Modelling and optimisation for sustainable development policy assessment. *European Journal of Operational Research*, **2005**, 164, 475-490	5.6	12
31	Invariant sets for feedback linearisation based nonlinear predictive control. *IET Control Theory and Applications*, **2005**, 152, 259-265		6
30	Extension of efficient predictive control to the nonlinear case. *International Journal of Robust and Nonlinear Control*, **2005**, 15, 219-231	3.6	4
29	Constrained MPC using feedback linearization on SISO bilinear systems with unstable inverse dynamics. *International Journal of Control*, **2005**, 78, 638-646	1.5	9
28	Asymmetric constraints with polytopic sets in MPC with application to coupled tanks system. *International Journal of Robust and Nonlinear Control*, **2004**, 14, 341-353	3.6	3
27	Recent developments in stochastic MPC and sustainable development. *Annual Reviews in Control*, **2004**, 28, 23-35	10.3	39
26	Efficient nonlinear model predictive control algorithms. *Annual Reviews in Control*, **2004**, 28, 229-237	10.3	81
25	Enlargement of polytopic terminal region in NMPC by interpolation and partial invariance. *Automatica*, **2004**, 40, 311-317	5.7	12
24	Constrained predictive control of linear distributed parameter systems. *International Journal of Control*, **2004**, 77, 941-948	1.5	
23	Nonlinear predictive control of hot strip rolling mill. *International Journal of Robust and Nonlinear Control*, **2003**, 13, 365-380	3.6	8
22	Nonlinear model predictive control with polytopic invariant sets. *Automatica*, **2003**, 39, 1487-1494	5.7	68
21	General interpolation in MPC and its advantages. *IEEE Transactions on Automatic Control*, **2003**, 48, 1092-1096	5.9	49
20	. *IEEE Transactions on Automatic Control*, **2003**, 48, 1443-1447	5.9	26
19	Constrained NMPC via state-space partitioning for input affine non-linear systems. *International Journal of Control*, **2003**, 76, 1516-1526	1.5	8
18	Who needs QP for linear MPC anyway?. *Automatica*, **2002**, 38, 879-884	5.7	79
17	Constrained receding horizon predictive control for nonlinear systems. *Automatica*, **2002**, 38, 2093-2102	5.7	54
16	An interpolation strategy for discrete-time bilinear MPC problems. *IEEE Transactions on Automatic Control*, **2002**, 47, 775-778	5.9	11
15	Efficient Constrained Model Predictive Control with Asymptotic Optimality. *SIAM Journal on Control and Optimization*, **2002**, 41, 60-82	1.9	12

14	Closed-Loop Stabilizing MPC for Discrete-Time Bilinear Systems. *European Journal of Control*, **2002**, 8, 304-314	2.5	0
13	Nonlinear constrained predictive control applied to a coupled-tanks apparatus. *IET Control Theory and Applications*, **2001**, 148, 17-24		15
12	Constrained predictive control and its application to a coupled-tanks apparatus. *International Journal of Control*, **2001**, 74, 552-564	1.5	17
11	Computationally efficient algorithms for constraint handling with guaranteed stability and near optimality. *International Journal of Control*, **2001**, 74, 1678-1689	1.5	20
10	Efficient non-linear model based predictive control. *International Journal of Control*, **2001**, 74, 361-372	1.5	21
9	Efficient active set optimization in triple mode MPC. *IEEE Transactions on Automatic Control*, **2001**, 46, 1307-1312	5.9	19
8	MPC Stability Constraints and Their Implementations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 205-212		1
7	Infinite horizon predictive control of constrained continuous-time linear systems. *Automatica*, **2000**, 36, 943-955	5.7	20
6	Stability, Feasibility, Optimality and the Degrees of Freedom in Constrained Predictive Control **2000**, 99-113		3
5	Recent developments in generalized predictive control for continuous-time systems. *International Journal of Control*, **1999**, 72, 164-173	1.5	11
4	Non-linear model based predictive control. *International Journal of Control*, **1999**, 72, 919-928	1.5	45
3	Linear Quadratic Feasible Predictive Control. *Automatica*, **1998**, 34, 1583-1592	5.7	43
2	Fast suboptimal predictive control with guaranteed stability. *Systems and Control Letters*, **1998**, 35, 19-29	2.4	11
1	Space-frequency localized basis function networks for nonlinear system estimation and control. *Neurocomputing*, **1995**, 9, 293-342	5.4	90