

# Robert R Bitmead

## List of Publications by Year in descending order

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69  
papers

1,897  
citations

304743

22  
h-index

265206

42  
g-index

70  
all docs

70  
docs citations

70  
times ranked

999  
citing authors

#	ARTICLE	IF	CITATIONS
1	LQG Control Performance With Low-Bitrate Periodic Coding. IEEE Transactions on Control of Network Systems, 2022, 9, 320-333.	3.7	1
2	Forward-looking persistent excitation in model predictive control. Automatica, 2022, 136, 110033.	5.0	4
3	Simultaneous input & state estimation, singular filtering and stability. Automatica, 2022, 137, 110017.	5.0	6
4	Exponential convergence of recursive least squares with forgetting factor for multiple-output systems. Automatica, 2021, 124, 109389.	5.0	12
5	Decision support tool for hospital resource allocation during the COVID-19 pandemic. Informatics in Medicine Unlocked, 2021, 24, 100618.	3.4	10
6	Model Predictive Control with Forward-Looking Persistent Excitation. IFAC-PapersOnLine, 2020, 53, 7070-7076.	0.9	3
7	A Kalman-filtering derivation of simultaneous input and state estimation. Automatica, 2019, 108, 108478.	5.0	21
8	Surrogate problems for tractable excitation management in stochastic MPC. , 2019, , .		1
9	Disturbance and State Estimation in Partially Known Power Networks. , 2019, , .		5
10	Predictive Coding and Control. IEEE Transactions on Control of Network Systems, 2019, 6, 906-918.	3.7	6
11	Stochastic output-feedback model predictive control. Automatica, 2018, 94, 315-323.	5.0	15
12	Markov modeling in hepatitis B screening and linkage to care. Theoretical Biology and Medical Modelling, 2017, 14, 11.	2.1	11
13	Particle Model Predictive Control: Tractable Stochastic Nonlinear Output-Feedback MPC. IFAC-PapersOnLine, 2017, 50, 15361-15366.	0.9	24
14	Optimal dual adaptive agile mobile wireless power control. Automatica, 2016, 74, 84-89.	5.0	2
15	Escape time formulation of state estimation and stabilization with quantized intermittent communication. Automatica, 2015, 61, 201-210.	5.0	6
16	Persistently exciting model predictive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 536-552.	4.1	85
17	Rejection of Aliased Disturbances in a Production Pulsed Light Source. IEEE Transactions on Control Systems Technology, 2013, 21, 480-488.	5.2	4
18	Escape time formulation of state estimation and stabilization with intermittent communication. , 2013, , .		1

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19	Divination of closed-loop stability and performance via frequency response function estimates. Automatica, 2012, 48, 1405-1414.	5.0	1
20	Feedforward for stabilization in the presence of constraints. Journal of Process Control, 2012, 22, 659-665.	3.3	10
21	Stochastic observability in network state estimation and control. Automatica, 2011, 47, 65-78.	5.0	22
22	Instability detection of ARMA systems based on AR system identification. Systems and Control Letters, 2011, 60, 185-191.	2.3	5
23	Finding real rational weighting functions for robust control analysis and design; connections to boundary interpolation and circuit synthesis. Communications in Information and Systems, 2011, 11, 153-172.	0.5	0
24	On resampling and uncertainty estimation in Linear System Identification. Automatica, 2010, 46, 785-795.	5.0	23
25	Observability and reconstructibility of hidden Markov models: Implications for control and network congestion control. , 2010, , .		3
26	Stochastic reconstructibility and estimability. , 2009, , .		2
27	Controller certification. Automatica, 2008, 44, 167-176.	5.0	8
28	Cross-estimator design for coordinated systems: Constraints, covariance, and communications resource assignment. Automatica, 2008, 44, 1394-1401.	5.0	4
29	Online reference computation for feasible model predictive control. , 2007, , .		0
30	State estimation for linear systems with state equality constraints. Automatica, 2007, 43, 1363-1368.	5.0	149
31	Optimal control for linear systems with state equality constraints. Automatica, 2007, 43, 1573-1582.	5.0	28
32	Communication Resources for Disturbance Rejection in Coordinated Vehicle Control. , 2006, , .		1
33	Identification for Nonlinear Feedback Limit-Cycle Systems Using Harmonic Balance Methods. , 2006, , .		2
34	Dimension Analysis for Least-Mean-Square Algorithms. , 2005, , 145-173.		0
35	Robust constrained predictive control using comparison model. Automatica, 2005, 41, 97-106.	5.0	45
36	Incorporating state estimation into model predictive control and its application to network traffic control. Automatica, 2005, 41, 595-604.	5.0	137

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37	Subspace system identification for training-based MIMO channel estimation. <i>Automatica</i> , 2005, 41, 1623-1632.	5.0	27
38	Vinnicombe's winding number condition is not transitive: Impacts for adaptive control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 783-787.	0.4	5
39	Prediction error methods for limit cycle data. <i>Automatica</i> , 2002, 38, 1753-1760.	5.0	5
40	Non-linear system identification using closed-loop data with no external excitation: The case of a lean combustion chamber. <i>International Journal of Control</i> , 2001, 74, 1796-1806.	1.9	41
41	On modelling and control of a rotary sugar dryer. <i>Control Engineering Practice</i> , 2001, 9, 249-266.	5.5	20
42	Fitting nonlinear low-order models for combustion instability control. <i>Control Engineering Practice</i> , 2001, 9, 1301-1317.	5.5	31
43	Direct iterative tuning via spectral analysis. <i>Automatica</i> , 2000, 36, 1301-1307.	5.0	83
44	Optimal controller properties from closed-loop experiments. <i>Automatica</i> , 1998, 34, 83-91.	5.0	8
45	Unstable ones in understood algebraic questions of modelling for control design. <i>Mathematical Modelling of Systems</i> , 1997, 3, 59-76.	0.7	8
46	Sampling rate versus quantisation in speech coders. <i>Signal Processing</i> , 1997, 56, 209-218.	3.7	2
47	Discrete-Time Fake Riccati Equations for Kalman Filtering and Receding-Horizon Control. <i>Control and Dynamic Systems</i> , 1996, 76, 79-102.	0.1	1
48	Decentralized Control Techniques in Periodically Time-Varying Discrete-Time Control Systems. <i>Control and Dynamic Systems</i> , 1995, 72, 153-181.	0.1	1
49	The application of an iterative identification and controller design to a sugar cane crushing mill. <i>Automatica</i> , 1995, 31, 1547-1563.	5.0	28
50	Iterative weighted least-squares identification and weighted LQG control design. <i>Automatica</i> , 1995, 31, 1577-1594.	5.0	165
51	Local minima escape transients by stochastic gradient descent algorithms in blind adaptive equalizers. <i>Automatica</i> , 1995, 31, 637-641.	5.0	5
52	Conditions for stability of the extended Kalman filter and their application to the frequency tracking problem. <i>Mathematics of Control, Signals, and Systems</i> , 1995, 8, 1-26.	2.3	82
53	Robust adaptive quantization: A Kalman filter-based approach. <i>International Journal of Adaptive Control and Signal Processing</i> , 1994, 8, 433-445.	4.1	0
54	Blind adaptation of decision feedback equalizers: Gross convergence properties. <i>International Journal of Adaptive Control and Signal Processing</i> , 1993, 7, 497-523.	4.1	23

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55	The combined sensitivity and phase margin problem. <i>Automatica</i> , 1992, 28, 417-421.	5.0	4
56	Trade-offs among Conflicting Objectives in Robust Control Design. <i>Control and Dynamic Systems</i> , 1992, 50, 1-53.	0.1	0
57	Optical adaptive signal processing: An appraisal. <i>International Journal of Adaptive Control and Signal Processing</i> , 1991, 5, 87-92.	4.1	1
58	Design problems for sensitivity and complementary sensitivity. <i>Systems and Control Letters</i> , 1990, 15, 137-146.	2.3	9
59	Fast simulation of rare events using reverse-time models. <i>Computer Networks</i> , 1990, 20, 315-321.	1.0	4
60	Decentralized control of multi-channel systems with direct control feedthrough. <i>International Journal of Control</i> , 1989, 49, 2057-2075.	1.9	14
61	Non-linear dynamics in adaptive control. <i>Automatica</i> , 1988, 24, 485-497.	5.0	28
62	Non-linear dynamics in adaptive control: Chaotic and periodic stabilization. <i>Automatica</i> , 1986, 22, 641-655.	5.0	96
63	Convergence rate determination for gradient-based adaptive estimators. <i>Automatica</i> , 1986, 22, 185-191.	5.0	21
64	Nonlinear averaging theorems, and the determination of parameter convergence rates in adaptive control. <i>Systems and Control Letters</i> , 1986, 7, 145-157.	2.3	28
65	Monotonicity and stabilizability- properties of solutions of the Riccati difference equation: Propositions, lemmas, theorems, fallacious conjectures and counterexamples. <i>Systems and Control Letters</i> , 1985, 5, 309-315.	2.3	104
66	Exponential convergence of recursive least squares with exponential forgetting factor. <i>Systems and Control Letters</i> , 1982, 2, 77-82.	2.3	96
67	Asymptotically fast solution of toeplitz and related systems of linear equations. <i>Linear Algebra and Its Applications</i> , 1980, 34, 103-116.	0.9	226
68	The Matrix Cauchy Index: Properties and Applications. <i>SIAM Journal on Applied Mathematics</i> , 1977, 33, 655-672.	1.8	31
69	Stability of matrix polynomials. <i>International Journal of Control</i> , 1977, 26, 235-247.	1.9	43