

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	Asymptotically fast solution of toeplitz and related systems of linear equations. Linear Algebra and Its Applications, 1980, 34, 103-116.	0.9	226
2	Iterative weighted least-squares identification and weighted LQG control design. Automatica, 1995, 31, 1577-1594.	5.0	165
3	State estimation for linear systems with state equality constraints. Automatica, 2007, 43, 1363-1368.	5.0	149
4	Incorporating state estimation into model predictive control and its application to network traffic control. Automatica, 2005, 41, 595-604.	5.0	137
5	Monotonicity and stabilizability- properties of solutions of the Riccati difference equation: Propositions, lemmas, theorems, fallacious conjectures and counterexamples. Systems and Control Letters, 1985, 5, 309-315.	2.3	104
6	Exponential convergence of recursive least squares with exponential forgetting factor. Systems and Control Letters, 1982, 2, 77-82.	2.3	96
7	Non-linear dynamics in adaptive control: Chaotic and periodic stabilization. Automatica, 1986, 22, 641-655.	5.0	96
8	Persistently exciting model predictive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 536-552.	4.1	85
9	Direct iterative tuning via spectral analysis. Automatica, 2000, 36, 1301-1307.	5.0	83
10	Conditions for stability of the extended Kalman filter and their application to the frequency tracking problem. Mathematics of Control, Signals, and Systems, 1995, 8, 1-26.	2.3	82
11	Robust constrained predictive control using comparison model. Automatica, 2005, 41, 97-106.	5.0	45
12	Stability of matrix polynomials. International Journal of Control, 1977, 26, 235-247.	1.9	43
13	Non-linear system identification using closed-loop data with no external excitation: The case of a lean combustion chamber. International Journal of Control, 2001, 74, 1796-1806.	1.9	41
14	The Matrix Cauchy Index: Properties and Applications. SIAM Journal on Applied Mathematics, 1977, 33, 655-672.	1.8	31
15	Fitting nonlinear low-order models for combustion instability control. Control Engineering Practice, 2001, 9, 1301-1317.	5.5	31
16	Nonlinear averaging theorems, and the determination of parameter convergence rates in adaptive control. Systems and Control Letters, 1986, 7, 145-157.	2.3	28
17	Non-linear dynamics in adaptive control. Automatica, 1988, 24, 485-497.	5.0	28
18	The application of an iterative identification and controller design to a sugar cane crushing mill. Automatica, 1995, 31, 1547-1563.	5.0	28

#	ARTICLE	IF	CITATIONS
19	Optimal control for linear systems with state equality constraints. <i>Automatica</i> , 2007, 43, 1573-1582.	5.0	28
20	Subspace system identification for training-based MIMO channel estimation. <i>Automatica</i> , 2005, 41, 1623-1632.	5.0	27
21	Particle Model Predictive Control: Tractable Stochastic Nonlinear Output-Feedback MPC. <i>IFAC-PapersOnLine</i> , 2017, 50, 15361-15366.	0.9	24
22	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
23	On resampling and uncertainty estimation in Linear System Identification. <i>Automatica</i> , 2010, 46, 785-795.	5.0	23
24	Stochastic observability in network state estimation and control. <i>Automatica</i> , 2011, 47, 65-78.	5.0	22
25	Convergence rate determination for gradient-based adaptive estimators. <i>Automatica</i> , 1986, 22, 185-191.	5.0	21
26	A Kalman-filtering derivation of simultaneous input and state estimation. <i>Automatica</i> , 2019, 108, 108478.	5.0	21
27	On modelling and control of a rotary sugar dryer. <i>Control Engineering Practice</i> , 2001, 9, 249-266.	5.5	20
28	Stochastic output-feedback model predictive control. <i>Automatica</i> , 2018, 94, 315-323.	5.0	15
29	Decentralized control of multi-channel systems with direct control feedthrough. <i>International Journal of Control</i> , 1989, 49, 2057-2075.	1.9	14
30	Exponential convergence of recursive least squares with forgetting factor for multiple-output systems. <i>Automatica</i> , 2021, 124, 109389.	5.0	12
31	Markov modeling in hepatitis B screening and linkage to care. <i>Theoretical Biology and Medical Modelling</i> , 2017, 14, 11.	2.1	11
32	Feedforward for stabilization in the presence of constraints. <i>Journal of Process Control</i> , 2012, 22, 659-665.	3.3	10
33	Decision support tool for hospital resource allocation during the COVID-19 pandemic. <i>Informatics in Medicine Unlocked</i> , 2021, 24, 100618.	3.4	10
34	Design problems for sensitivity and complementary sensitivity. <i>Systems and Control Letters</i> , 1990, 15, 137-146.	2.3	9
35	Unstable ones in understood algebraic questions of modelling for control design. <i>Mathematical Modelling of Systems</i> , 1997, 3, 59-76.	0.7	8
36	Optimal controller properties from closed-loop experiments. <i>Automatica</i> , 1998, 34, 83-91.	5.0	8

#	ARTICLE	IF	CITATIONS
37	Controller certification. Automatica, 2008, 44, 167-176.	5.0	8
38	Escape time formulation of state estimation and stabilization with quantized intermittent communication. Automatica, 2015, 61, 201-210.	5.0	6
39	Predictive Coding and Control. IEEE Transactions on Control of Network Systems, 2019, 6, 906-918.	3.7	6
40	Simultaneous input & state estimation, singular filtering and stability. Automatica, 2022, 137, 110017.	5.0	6
41	Local minima escape transients by stochastic gradient descent algorithms in blind adaptive equalizers. Automatica, 1995, 31, 637-641.	5.0	5
42	Prediction error methods for limit cycle data. Automatica, 2002, 38, 1753-1760.	5.0	5
43	Vinnicombe's winding number condition is not transitive: Impacts for adaptive control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 783-787.	0.4	5
44	Instability detection of ARMA systems based on AR system identification. Systems and Control Letters, 2011, 60, 185-191.	2.3	5
45	Disturbance and State Estimation in Partially Known Power Networks. , 2019, , .		5
46	Fast simulation of rare events using reverse-time models. Computer Networks, 1990, 20, 315-321.	1.0	4
47	The combined sensitivity and phase margin problem. Automatica, 1992, 28, 417-421.	5.0	4
48	Cross-estimator design for coordinated systems: Constraints, covariance, and communications resource assignment. Automatica, 2008, 44, 1394-1401.	5.0	4
49	Rejection of Aliased Disturbances in a Production Pulsed Light Source. IEEE Transactions on Control Systems Technology, 2013, 21, 480-488.	5.2	4
50	Forward-looking persistent excitation in model predictive control. Automatica, 2022, 136, 110033.	5.0	4
51	Observability and reconstructibility of hidden Markov models: Implications for control and network congestion control. , 2010, , .		3
52	Model Predictive Control with Forward-Looking Persistent Excitation. IFAC-PapersOnLine, 2020, 53, 7070-7076.	0.9	3
53	Sampling rate versus quantisation in speech coders. Signal Processing, 1997, 56, 209-218.	3.7	2
54	Identification for Nonlinear Feedback Limit-Cycle Systems Using Harmonic Balance Methods. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
55	Stochastic reconstructibility and estimability. , 2009, , .		2
56	Optimal dual adaptive agile mobile wireless power control. Automatica, 2016, 74, 84-89.	5.0	2
57	Optical adaptive signal processing: An appraisal. International Journal of Adaptive Control and Signal Processing, 1991, 5, 87-92.	4.1	1
58	Decentralized Control Techniques in Periodically Time-Varying Discrete-Time Control Systems. Control and Dynamic Systems, 1995, 72, 153-181.	0.1	1
59	Discrete-Time Fake Riccati Equations for Kalman Filtering and Receding-Horizon Control. Control and Dynamic Systems, 1996, 76, 79-102.	0.1	1
60	Communication Resources for Disturbance Rejection in Coordinated Vehicle Control. , 2006, , .		1
61	Divination of closed-loop stability and performance via frequency response function estimates. Automatica, 2012, 48, 1405-1414.	5.0	1
62	Escape time formulation of state estimation and stabilization with intermittent communication. , 2013, , .		1
63	Surrogate problems for tractable excitation management in stochastic MPC. , 2019, , .		1
64	LQG Control Performance With Low-Bitrate Periodic Coding. IEEE Transactions on Control of Network Systems, 2022, 9, 320-333.	3.7	1
65	Robust adaptive quantization: A Kalmanâ€filterâ€based approach. International Journal of Adaptive Control and Signal Processing, 1994, 8, 433-445.	4.1	0
66	Dimension Analysis for Least-Mean-Square Algorithms. , 2005, , 145-173.		0
67	Online reference computation for feasible model predictive control. , 2007, , .		0
68	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
69	Trade-offs among Conflicting Objectives in Robust Control Design. Control and Dynamic Systems, 1992, 50, 1-53.	0.1	0