Roy S Smith

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167 2,062 40 21 h-index g-index citations papers 2,647 184 3.1 5.49 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
167	. IEEE Transactions on Automatic Control, 1992 , 37, 942-952	5.9	245
166	Model Predictive Climate Control of a Swiss Office Building: Implementation, Results, and Cost B enefit Analysis. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1-12	4.8	160
165	Covert Misappropriation of Networked Control Systems: Presenting a Feedback Structure. <i>IEEE Control Systems</i> , 2015 , 35, 82-92	2.9	113
164	. IEEE Transactions on Automatic Control, 2007 , 52, 1404-1414	5.9	93
163	A Decoupled Feedback Structure for Covertly Appropriating Networked Control Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 90-95		91
162	Adaptive receding horizon control for constrained MIMO systems. <i>Automatica</i> , 2014 , 50, 3019-3029	5.7	80
161	Control of Deep-Space Formation-Flying Spacecraft; Relative Sensing and Switched Information. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 106-114	2.1	76
160	. IEEE Transactions on Control Systems Technology, 1994 , 2, 101-109	4.8	58
159	BRCM Matlab Toolbox: Model generation for model predictive building control 2014 ,		46
158	Design of distributed decentralized estimators for formations with fixed and stochastic communication topologies. <i>Automatica</i> , 2009 , 45, 2491-2501	5.7	44
157	Frequency Domain Subspace Identification Using Nuclear Norm Minimization and Hankel Matrix Realizations. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2886-2896	5.9	37
156	A generalization of the structured singular value and its application to model validation. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 901-907	5.9	36
155	Continuous-time control model validation using finite experimental data. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 1094-1105	5.9	36
154	Distributed estimation, communication and control for deep space formations. <i>IET Control Theory and Applications</i> , 2007 , 1, 445-451	2.5	32
153	Control topologies for deep space formation flying spacecraft 2002,		26
152	A Convex Characterization of Robust Stability for Positive and Positively Dominated Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1965-1971	5.9	24
151	Semi-automated modular modeling of buildings for model predictive control 2012 ,		23

150	Model Invalidation: A Connection between Robust Control and Identification 1989,		23
149	Model validation for dynamically uncertain systems. <i>Mathematical Modelling of Systems</i> , 1997 , 3, 43-58		22
148	Magnetic Bearing Measurement Configurations and Associated Robustness and Performance Limitations. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 589-598	1.6	22
147	Robust parametrically varying attitude controller designs for the X-33 vehicle 2000 ,		21
146	Model Predictive Approaches for Active Surge Control in Centrifugal Compressors. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1947-1960	4.8	20
145	Parameter Identification of the KUKA LBR iiwa Robot Including Constraints on Physical Feasibility. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6863-6868	0.7	20
144	Towards a standardized building assessment for demand response 2013,		20
143	Changing lanes: inertial cues and explicit path information facilitate steering performance when visual feedback is removed. <i>Experimental Brain Research</i> , 2007 , 178, 141-50	2.3	20
142	2012,		19
141	Model validation for robust control: an experimental process control application. <i>Automatica</i> , 1995 , 31, 1637-1647	5.7	19
140	Debugh Adaphing Mandal Dandishing Duilding Climate Control (FAC December 2017) 2017 FO 4074 4076		18
	Robust Adaptive Model Predictive Building Climate Control. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1871-1876	0.7	10
139	Robust Model Predictive Building Climate Control. IFAC-PapersOnLine, 2017, 50, 1871-1876 Robust model predictive control of constrained linear systems 2004,	0.7	18
139		0.7	
	Robust model predictive control of constrained linear systems 2004, The Power of Diversity: Data-Driven Robust Predictive Control for Energy-Efficient Buildings and	,	18
138	Robust model predictive control of constrained linear systems 2004, The Power of Diversity: Data-Driven Robust Predictive Control for Energy-Efficient Buildings and Districts. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 132-145 Improved day ahead heating demand forecasting by online correction methods. <i>Energy and</i>	4.8	18
138	Robust model predictive control of constrained linear systems 2004, The Power of Diversity: Data-Driven Robust Predictive Control for Energy-Efficient Buildings and Districts. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 132-145 Improved day ahead heating demand forecasting by online correction methods. <i>Energy and Buildings</i> , 2020, 211, 109821 A stochastic optimization approach to cooperative building energy management via an energy hub	4.8	18 17 16
138 137 136	Robust model predictive control of constrained linear systems 2004, The Power of Diversity: Data-Driven Robust Predictive Control for Energy-Efficient Buildings and Districts. IEEE Transactions on Control Systems Technology, 2019, 27, 132-145 Improved day ahead heating demand forecasting by online correction methods. Energy and Buildings, 2020, 211, 109821 A stochastic optimization approach to cooperative building energy management via an energy hub 2015, Pressure and temperature-based adaptive observer of air charge for turbocharged diesel engines.	4.8	18 17 16 16

132	Visual control of action without retinal optic flow. <i>Psychological Science</i> , 2006 , 17, 214-21	7.9	15
131	Damping and Structural Control of the JPL Phase 0 Testbed Structure. <i>Journal of Intelligent Material Systems and Structures</i> , 1991 , 2, 281-300	2.3	15
130	Predictive Control of Autonomous Kites in Tow Test Experiments 2017 , 1, 110-115		14
129	Maneuverability and smoke emission constraints in marine diesel propulsion. <i>Control Engineering Practice</i> , 2000 , 8, 1023-1031	3.9	14
128	. IEEE Transactions on Automatic Control, 1995, 40, 1063-1066	5.9	14
127	Towards a Methodology for Robust Parameter Identification 1990,		14
126	A nonlinear functional approach to LFT model validation. Systems and Control Letters, 2002, 47, 1-11	2.4	13
125	. IEEE Transactions on Automatic Control, 1994 , 39, 1904-1909	5.9	13
124	1991,		13
123	Active control of a rod-net formwork system prototype. <i>Automation in Construction</i> , 2018 , 96, 128-140	9.6	13
122	Model-based identification and control of the velocity vector orientation for autonomous kites 2015 ,		12
121	Adaptive Air Charge Estimation for Turbocharged Diesel Engines Without Exhaust Gas Recirculation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 633-643	1.6	11
120	A Data-Driven Stochastic Optimization Approach to the Seasonal Storage Energy Management 2017 , 1, 394-399		10
119	Model-based flight path planning and tracking for tethered wings 2015,		10
118	Control of IIIIV epitaxy in a metalorganic chemical vapor deposition process: impact of source flow control on composition and thickness. <i>Journal of Crystal Growth</i> , 1996 , 167, 8-16	1.6	10
117	Optimal control of perturbed linear static systems. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 579-584	5.9	10
116	Sampled-data model validation: An algorithm and experimental application. <i>International Journal of Robust and Nonlinear Control</i> , 1996 , 6, 1065-1078	3.6	9

114	. IEEE Transactions on Power Systems, 2018 , 33, 363-372	7	8
113	Modeling of tethered satellite formations using graph theory. <i>Acta Astronautica</i> , 2011 , 69, 470-479	2.9	8
112	Adaptive model predictive control for constrained linear systems 2013,		8
111	Convex characterization of robust stability analysis and control synthesis for positive linear systems 2014 ,		7
110	Aeromaneuvering in the Martian Atmosphere: Simulation-Based Analyses. <i>Journal of Spacecraft and Rockets</i> , 2000 , 37, 139-142	1.5	7
109	Closed-Loop Identification of Flexible Structures: An Experimental Example. <i>Journal of Guidance, Control, and Dynamics</i> , 1998 , 21, 435-440	2.1	7
108	The Two Tank Experiment: A Benchmark Control Problem 1988,		7
107	Performance-Driven Cascade Controller Tuning With Bayesian Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
106	. IEEE Control Systems, 2017 , 37, 30-51	2.9	6
105	Controller Tuning by Bayesian Optimization An Application to a Heat Pump 2019,		6
105	Controller Tuning by Bayesian Optimization An Application to a Heat Pump 2019, Robust stability of a class of interconnected nonlinear positive systems 2015,		6
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104	Robust stability of a class of interconnected nonlinear positive systems 2015 , Control of a III-V MOCVD process using ultraviolet absorption and ultrasonic concentration	4.8	6
104	Robust stability of a class of interconnected nonlinear positive systems 2015 , Control of a III-V MOCVD process using ultraviolet absorption and ultrasonic concentration monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2001 , 9, 728-740 Fundamental limits in robustness and performance for unstable, underactuated systems. <i>IEEE</i>		6
104	Robust stability of a class of interconnected nonlinear positive systems 2015, Control of a III-V MOCVD process using ultraviolet absorption and ultrasonic concentration monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2001, 9, 728-740 Fundamental limits in robustness and performance for unstable, underactuated systems. <i>IEEE Transactions on Automatic Control</i> , 2001, 46, 1265-1268		6 6
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96	Model validation for nonlinear feedback systems		5
95	Solving large structured semidefinite programs using an inexact spectral bundle method		5
94	An informal review of model validation 1994 , 51-59		5
93	Region of attraction analysis of nonlinear stochastic systems using Polynomial Chaos Expansion. <i>Automatica</i> , 2020 , 122, 109187	5.7	5
92	Two methods for the identification of uncertain parameters of an architectural cable net geometry 2016 ,		4
91	Identification of magnetic characteristics of induction motors based on the Jiles-Atherton model 2014 ,		4
90	Simultaneous measurement of steering performance and perceived heading on a curving path. <i>ACM Transactions on Applied Perception</i> , 2006 , 3, 83-94	1.4	4
89	Modeling and validation of nonlinear feedback systems 1999 , 87-101		4
88	Power methods for calculating eigenvalues and eigenvectors of spectral operators on Hilbert spaces. <i>International Journal of Control</i> , 1995 , 62, 1117-1128	1.5	4
87	A continuous-time extension condition. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 738-742	5.9	4
86	Cascade Control: Data-Driven Tuning Approach Based on Bayesian Optimization. <i>IFAC-PapersOnLine</i> , 2020 , 53, 382-387	0.7	4
85	Sequential quadratic programming for the control of an architectural cable net geometry 2016,		4
84	Pumping Cycle Kite Power with Twings. <i>Green Energy and Technology</i> , 2018 , 603-621	0.6	4
83	Automated classification and identification procedure for prediction of energy consumption in multi-mode buildings. <i>Energy Procedia</i> , 2017 , 122, 1021-1026	2.3	3
82	Mutually Quadratically Invariant Information Structures in Two-Team Stochastic Dynamic Games. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2256-2263	5.9	3
81	Scalability through Decentralization: A Robust Control Approach for the Energy Management of a Building Community. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14314-14319	0.7	3
80	Predictive Guidance Control for Autonomous Kites with Input Delay. IFAC-PapersOnLine, 2017, 50, 132	7691/32	8 ₃
79	MPC based supervisory control design for a Free Electron Laser 2015 ,		3

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78	Distributed Estimator Design for a Formation with Markovian Communication Topology. Proceedings of the American Control Conference, 2007,	1.2	3	
77	Design of a Distributed Decentralized Estimator for a Formation with Fixed Communication Topology. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3	
76	. IEEE Transactions on Microwave Theory and Techniques, 1995 , 43, 2214-2221	4.1	3	
75	Calculating Finite-Dimensional Approximations of Infinite-Dimensional Linear Systems 1992,		3	
74	Frequency regulation with heat pumps using robust MPC with affine policies. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13210-13215	0.7	3	
73	Linear Time-Periodic System Identification with Grouped Atomic Norm Regularization. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1237-1242	0.7	3	
72	Exergy-based model predictive control for design and control of a seasonal thermal energy storage system. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012066	0.3	3	
71	Stability Verification for Periodic Trajectories of Autonomous Kite Power Systems 2018,		3	
70	A Framework for Distributed Control Based on Overlapping Estimation for Cooperative Tasks. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14296-14301	0.7	2	
69	A Multiobjective LQR Synthesis Approach to Dual Control for Uncertain Plants 2020 , 4, 952-957		2	
68	Visual Motion Tracking and Sensor Fusion for Kite Power Systems. <i>Green Energy and Technology</i> , 2018 , 413-438	0.6	2	
67	Active Surge control of electrically driven centrifugal compressors 2015,		2	
66	State Estimation for Kite Power Systems with Delayed Sensor Measurements * *This research was supported by the Swiss National Science Foundation (Synergia) No. 141836 and the Swiss Commission for Technology and Innovation (CTI). <i>IFAC-PapersOnLine</i> , 2017 , 50, 11959-11964	0.7	2	
65	Circuit generation for efficient projection onto polyhedral sets in first-order methods 2015,		2	
64	An adaptive iterative learning control scheme for reducing CO2 emission in gasoline engines 2015,		2	
63	A study of the gap between the structured singular value and its convex upper bound for low-rank matrices. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1176-1179	5.9	2	
62	2007,		2	
61	Classical, Robust and LPV Control of a Magnetic-bearing Experiment 2007 , 277-325		2	

60	Inherent limitations and control design for camless engine idle speed dynamics. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 1023-1042	3.6	2
59	Emissions and Performance Tradeoffs for Advanced Marine Diesel Propulsion. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 35-40		2
58	Physics-informed linear regression is competitive with two Machine Learning methods in residential building MPC. <i>Applied Energy</i> , 2022 , 310, 118491	10.7	2
57	Structured exploration in the finite horizon linear quadratic dual control problem. <i>IFAC-PapersOnLine</i> , 2020 , 53, 959-964	0.7	2
56	Convex reformulation of a robust optimal control problem for a class of positive systems 2016,		2
55	Kernel-Based Identification of Positive Systems 2019 ,		2
54	Price arbitrage using variable-efficiency energy storage. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012060	0.3	2
53	Nonlinear System Identification With Prior Knowledge on the Region of Attraction 2021 , 5, 1091-1096		2
52	On Low-Rank Hankel Matrix Denoising. IFAC-PapersOnLine, 2021, 54, 198-203	0.7	2
51	Iterative Learning Control for the Radio Frequency Subsystems of a Free-Electron Laser. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1567-1577	4.8	2
50	Stochastic Energy Pricing of an Electric Vehicle Parking Lot. IEEE Transactions on Smart Grid, 2022, 1-1	10.7	2
49	Optimization algorithms for nuclear norm based subspace identification with uniformly spaced frequency domain data 2015 ,		1
48	An Iterative Learning Control Approach for Radio Frequency Pulse Compressor Amplitude and Phase Modulation. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 842-848	1.7	1
47	Nonlinear Control of Quadcopters via Approximate Dynamic Programming 2019,		1
46	Visual control of steering in curve driving. <i>Journal of Vision</i> , 2019 , 19, 1	0.4	1
45	Frequency-Domain Identification of a Ventilated Room for Model Based Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 593-598		1
44	Low-complexity first-order constraint linearization methods for efficient nonlinear MPC 2017,		1
43	Time-domain Subspace Identification Algorithms using Nuclear Norm Minimisation. <i>IFAC-PapersOnLine</i> , 2015 , 48, 903-908	0.7	1

42	Quadratic two-team games 2015 ,	1
41	Model Predictive Control approaches for centrifugal compression systems 2015,	1
40	Comparison of the efficiency of different magnetization strategies for a variable speed induction machine drive 2015 ,	1
39	Capturing Nonlinearities with Perturbation Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 107-112	1
38	Distributed model predictive control of buildings and energy hubs. <i>Energy and Buildings</i> , 2022 , 259, 1118,06	1
37	Parameter Identification for Digital Fabrication: A Gaussian Process Learning Approach. <i>IFAC-PapersOnLine</i> , 2020 , 53, 388-393	1
36	Robust Control of a Lightweight Structure for Digital Fabrication. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7424-74307	1
35	Regularized System Identification: A Hierarchical Bayesian Approach. <i>IFAC-PapersOnLine</i> , 2020 , 53, 406-41.†	1
34	Low-Complexity Identification by Sparse Hyperparameter Estimation. <i>IFAC-PapersOnLine</i> , 2020 , 53, 412- 617	1
33	Sensitivity analysis of data-driven building energy demand forecasts. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012062	1
32	Power System Upgrade Planning with On-load Tap-changing Transformers, Switchable Topology and Operating Policies 2019 ,	1
31	Machine learning-based modeling and controller tuning of a heat pump. <i>Journal of Physics:</i> Conference Series, 2019 , 1343, 012065	1
30	Convex Nonparametric Formulation for Identification of Gradient Flows 2021 , 5, 1097-1102	1
29	Graph-Theoretic Optimization for Edge Consensus. <i>IFAC-PapersOnLine</i> , 2021 , 54, 533-538 0.7	1
28	Modeling, Identification, Estimation and Adaptation for the Control of Power-Generating Kites. <i>IFAC-PapersOnLine</i> , 2018 , 51, 981-989	1
27	Scalable Controller Synthesis for Heterogeneous Interconnected Systems Applicable to an Overlapping Control Framework 2018 ,	1
26	Globally Optimal AC Power System Upgrade Planning under Operational Policy Constraints 2018,	1
25	The balanced mode decomposition algorithm for data-driven LPV low-order models of aeroservoelastic systems. <i>Aerospace Science and Technology</i> , 2021 , 115, 106821	1

24	Adaptive model predictive control for constrained MIMO systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 39-44		О
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22	Robust MPC with data-driven demand forecasting for frequency regulation with heat pumps. <i>Control Engineering Practice</i> , 2022 , 122, 105101	3.9	О
21	Distributed Control Design for Heterogeneous Interconnected Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	O
20	Experiment design for impulse response identification with signal matrix models. <i>IFAC-PapersOnLine</i> , 2021 , 54, 625-630	0.7	О
19	On Robustness of Kernel-Based Regularized System Identification. IFAC-PapersOnLine, 2021, 54, 749-75	5 4 0.7	O
18	Adaptive Control of Low-Level Radio Frequency Signals Based on In-Phase and Quadrature Components. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 1023-1028	1.7	
17	Optimal Radio-Frequency Power Distribution in a Linear Accelerator Using Beam Energy Measurements. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 777-782	1.7	
16	Optimal Control of Gains in a Linear Accelerator: A Supervisory Method for Vector-Sum Control. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1800-1806	4.8	
15	Control-Oriented Model Validation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 433-440		
14	PARALLEL ESTIMATORS AND COMMUNICATION IN SPACECRAFT FORMATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 91-96		
13	NONLINEAR FUNCTIONAL CHARACTERIZATIONS OF UNCERTAINTY IN MODEL VALIDATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 151-156		
12	Correction to "Optimal control of perturbed linear static systems". <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 1900-1901	5.9	
11	Modeling and Control of a Metalorganic Chemical Vapor Deposition Process for III-V Compound Semiconductor Epitaxy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 719-724		
10	Parameter Estimation in an Uncertain Model Framework. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 4057-4062		
9	The Stability Analysis of Sampled-Data Systems with Averaging Samplers and Time Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 4132-4137		
8	Experimentally Based Calculation of Robust Control Perturbation Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994 , 27, 521-526		
7	Robust Adaptive Model Predictive Control with Worst-Case Cost. <i>IFAC-PapersOnLine</i> , 2020 , 53, 4222-42	2 7.7	

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6	Feedback Control Design Maximizing the Region of Attraction of Stochastic Systems Using Polynomial Chaos Expansion. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7197-7203	0.7
5	Stochasticity in Feedback Loops: Great Expectations and Guaranteed Ruin. <i>IEEE Control Systems</i> , 2021 , 41, 28-44	2.9
4	Time-Delayed Feedback Control of Electron Beam Energy Using \${H}_{infty}\$ -Optimal Fractional Delay. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 2176-2181	4.8
3	. IEEE Transactions on Control Systems Technology, 2020 , 28, 1378-1392	4.8
2	Subspace Identification of Linear Time-Periodic Systems With Periodic Inputs 2021 , 5, 145-150	
1	Median, Mean, and Variance Stability of a Process Under Temporally Correlated Stochastic Feedback 2021 , 5, 857-862	