

Hkan Hjalmarsson

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99
papers

3,457
citations

20
h-index

58
g-index

111
ext. papers

4,110
ext. citations

3.9
avg, IF

5.43
L-index

#	Paper	IF	Citations
99	Nonlinear black-box modeling in system identification: a unified overview. <i>Automatica</i> , 1995 , 31, 1691-1724	5.7	1340
98	From experiment design to closed-loop control. <i>Automatica</i> , 2005 , 41, 393-438	5.7	314
97	Iterative feedback tuning—an overview. <i>International Journal of Adaptive Control and Signal Processing</i> , 2002 , 16, 373-395	2.8	275
96	Nonlinear black-box models in system identification: Mathematical foundations. <i>Automatica</i> , 1995 , 31, 1725-1750	5.7	257
95	For model-based control design, closed-loop identification gives better performance. <i>Automatica</i> , 1996 , 32, 1659-1673	5.7	157
94	System Identification of Complex and Structured Systems. <i>European Journal of Control</i> , 2009 , 15, 275-310	1.5	98
93	Efficient tuning of linear multivariable controllers using iterative feedback tuning. <i>International Journal of Adaptive Control and Signal Processing</i> , 1999 , 13, 553-572	2.8	64
92	Model-free Tuning of a Robust Regulator for a Flexible Transmission System. <i>European Journal of Control</i> , 1995 , 1, 148-156	2.5	49
91	Identification of ARX systems with non-stationary inputs — asymptotic analysis with application to adaptive input design. <i>Automatica</i> , 2009 , 45, 623-633	5.7	43
90	Four Encounters with System Identification. <i>European Journal of Control</i> , 2011 , 17, 449-471	2.5	41
89	Closed loop experiment design for linear time invariant dynamical systems via LMIs. <i>Automatica</i> , 2008 , 44, 623-636	5.7	41
88	Identification for control of multivariable systems: Controller validation and experiment design via LMIs. <i>Automatica</i> , 2008 , 44, 3070-3078	5.7	40
87	Non-parametric methods for . <i>Automatica</i> , 2010 , 46, 1376-1381	5.7	33
86	Experimental evaluation of model predictive control with excitation (MPC-X) on an industrial depropanizer. <i>Journal of Process Control</i> , 2015 , 31, 1-16	3.9	31
85	Iterative Data-Driven \mathcal{H}_∞ Norm Estimation of Multivariable Systems With Application to Robust Active Vibration Isolation. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2247-2260	4.8	30
84	Optimal Input Design for Identification of Non-linear Systems: Learning From the Linear Case. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	30
83	Identification and control: Joint input design and H _∞ state feedback with ellipsoidal parametric uncertainty via LMIs. <i>Automatica</i> , 2008 , 44, 543-551	5.7	23

82	Gradient approximations in iterative feedback tuning for multivariable processes. <i>International Journal of Adaptive Control and Signal Processing</i> , 2004 , 18, 665-681	2.8	23
81	Variance results for identification of cascade systems. <i>Automatica</i> , 2009 , 45, 1443-1448	5.7	22
80	On the frequency domain accuracy of closed-loop estimates. <i>Automatica</i> , 2005 , 41, 1109-1122	5.7	22
79	Application-Oriented Input Design in System Identification: Optimal Input Design for Control [Applications of Control]. <i>IEEE Control Systems</i> , 2017 , 37, 31-56	2.9	20
78	A nonparametric kernel-based approach to Hammerstein system identification. <i>Automatica</i> , 2017 , 85, 234-247	5.7	20
77	An empirical Bayes approach to identification of modules in dynamic networks. <i>Automatica</i> , 2018 , 91, 144-151	5.7	20
76	Analyzing iterations in identification with application to nonparametric Herm estimation. <i>Automatica</i> , 2012 , 48, 2776-2790	5.7	19
75	Least-squares estimation of a class of frequency functions: A finite sample variance expression. <i>Automatica</i> , 2006 , 42, 589-600	5.7	19
74	On optimal input design in system identification for control 2010 ,		18
73	Model predictive control with integrated experiment design for output error systems 2013 ,		17
72	A Geometric Approach to Variance Analysis in System Identification. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 983-997	5.9	17
71	A design algorithm using external perturbation to improve Iterative Feedback Tuning convergence. <i>Automatica</i> , 2011 , 47, 2665-2670	5.7	15
70	A graph theoretical approach to input design for identification of nonlinear dynamical models. <i>Automatica</i> , 2015 , 51, 233-242	5.7	14
69	How to Make Bias and Variance Errors Insensitive to System and Model Complexity in Identification. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 100-112	5.9	12
68	Variance-error quantification for identified poles and zeros. <i>Automatica</i> , 2009 , 45, 2512-2525	5.7	12
67	Optimal Input Design Using Linear Matrix Inequalities. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 1085-1090		12
66	An application-oriented approach to dual control with excitation for closed-loop identification. <i>European Journal of Control</i> , 2016 , 29, 1-16	2.5	12
65	Bayesian nonparametric identification of Wiener systems. <i>Automatica</i> , 2019 , 108, 108480	5.7	11

64	On the accuracy in errors-in-variables identification compared to prediction-error identification. <i>Automatica</i> , 2011 , 47, 2704-2712	5.7	11
63	Conditions when minimum variance control is the optimal experiment for identifying a minimum variance controller. <i>Automatica</i> , 2011 , 47, 578-583	5.7	11
62	The Cost of Complexity in System Identification: Frequency Function Estimation of Finite Impulse Response Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2298-2309	5.9	10
61	An adaptive method for consistent estimation of real-valued non-minimum phase zeros in stable LTI systems. <i>Automatica</i> , 2011 , 47, 1388-1398	5.7	10
60	Chance constrained input design 2011 ,		10
59	On optimal input design in system identification for model predictive control 2011 ,		10
58	OPTIMAL EXPERIMENT DESIGN IN CLOSED LOOP. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 488-493		10
57	MPC oriented experiment design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9966-9971		9
56	ROBUST INPUT DESIGN USING SUM OF SQUARES CONSTRAINTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1352-1357		9
55	Input design as a tool to improve the convergence of PEM. <i>Automatica</i> , 2013 , 49, 3282-3291	5.7	8
54	2013 ,		8
53	On the Performance of Optimal Input Signals for Frequency Response Estimation. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 766-771	5.9	8
52	ON SOME ROBUSTNESS ISSUES IN INPUT DESIGN. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 511-516		8
51	Learning Robust LQ-Controllers Using Application Oriented Exploration 2020 , 4, 19-24		8
50	Application set approximation in optimal input design for model predictive control 2014 ,		7
49	Training sequence design for MIMO channels: an application-oriented approach. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	7
48	Modeling and identification of uncertain-input systems. <i>Automatica</i> , 2019 , 105, 130-141	5.7	6
47	Linear prediction error methods for stochastic nonlinear models. <i>Automatica</i> , 2019 , 105, 49-63	5.7	6

46	Predictor-based multivariable closed-loop system identification of the EXTRAP T2R reversed field pinch external plasma response. <i>Plasma Physics and Controlled Fusion</i> , 2011 , 53, 084003	2	6
45	Data-Driven Methods for L2-Gain Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1597-1602		6
44	GAIN ESTIMATION FOR HAMMERSTEIN SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 784-789		6
43	Identification of stochastic nonlinear models using optimal estimating functions. <i>Automatica</i> , 2020 , 119, 109055	5-7	5
42	The Cost of Complexity in Identification of FIR Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 11451-11456		5
41	Identification of modules in dynamic networks: An empirical Bayes approach 2016 ,		5
40	The cost of complexity in system identification: The Output Error case. <i>Automatica</i> , 2011 , 47, 1938-1948	5-7	4
39	Identification of nonlinear systems using misspecified predictors 2010 ,		4
38	Application-Oriented Finite Sample Experiment Design: A Semidefinite Relaxation Approach*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1635-1640		4
37	From experiments to closed loop control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 1-14		4
36	Using a sufficient condition to analyze the interplay between identification and control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 45-50		4
35	On Direct Identification of Physical Parameters in Non-Linear Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 375-380		4
34	A GENERAL FRAMEWORK FOR ITERATIVE LEARNING CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 387-392		4
33	A Multi-Time-Scale Generalization of Recursive Identification Algorithm for ARMAX Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2242-2247	5-9	3
32	Input Signal Generation for Constrained Multiple-Input Multiple-Output Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1410-1415		3
31	Robust and adaptive excitation signal generation for input and output constrained systems 2013 ,		3
30	Order and structural dependence selection of LPV-ARX models revisited 2012 ,		3
29	A System, Signals and Identification Toolbox in Mathematica with Symbolic Capabilities. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 747-751		3

28	Adaptive input design for ARX systems 2007 ,		3
27	RANDOMIZED ITERATIVE FEEDBACK TUNING. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 361-366		3
26	ON METHODS FOR GRADIENT ESTIMATION IN IFT FOR MIMO SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 379-384		3
25	Iterative Feedback Tuning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 101-108		3
24	Generation of signals with specified second-order properties for constrained systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 456-472	2.8	2
23	Adaptive Input Design for LTI Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2390-2405	5.9	2
22	Uncertainty in system identification: learning from the theory of risk. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1053-1058	1.9	2
21	On the variance analysis of identified linear MIMO models 2015 ,		2
20	Input design using cylindrical algebraic decomposition 2011 ,		2
19	A Tutorial on Applications-Oriented Optimal Experiment Design. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 149-164	0.5	2
18	Mean-squared error experiment design for linear regression models*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1629-1634		2
17	Frequency Domain Expressions of the Accuracy of a Model-Free Control Design Scheme. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 149-154		2
16	Improving convergence of Iterative Feedback Tuning using optimal external perturbations 2008 ,		2
15	MIXED H ₂ AND H _∞ INPUT DESIGN FOR MULTIVARIABLE SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1335-1340		2
14	IDENTIFICATION OF PERFORMANCE LIMITATIONS IN CONTROL USING ARX-MODELS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 283-288		2
13	Application of a Linear PEM Estimator to a Stochastic Wiener-Hammerstein Benchmark Problem. <i>IFAC-PapersOnLine</i> , 2018 , 51, 784-789	0.7	2
12	Covariance analysis in SISO linear systems identification. <i>Automatica</i> , 2017 , 77, 82-92	5.7	1
11	Applications oriented input design for closed-loop system identification: a graph-theory approach 2014 ,		1

10	Variational Bayes identification of acyclic dynamic networks * **This work was supported by the Swedish Research Council under contracts 2015-05285 and 2016-06079, and by the European Research Council under the advanced grants LEARN, contract 267381, and SYSIDNET, contract 694504. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10556-10561	0.7	1
9	A Chernoff convexification for chance constrained MIMO training sequence design 2012 ,		1
8	Consistent estimation of real NMP zeros in stable LTI systems of arbitrary complexity. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 922-927		1
7	ON OPTIMAL INPUT DESIGN IN SYSTEM IDENTIFICATION1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 499-504		1
6	Identification of performance limitations in control 2001 ,		1
5	System Identification for Automotive Systems: Opportunities and Challenges. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 1-10	0.5	1
4	Analyzing Iterations in Identification with Application to Nonparametric H _∞ Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9972-9977		
3	Robust Experiment Design for System Identification via Semi-Infinite Programming Techniques*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 680-685		
2	Spectral Based Parameter Estimation in Nonlinear Stochastic Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 911-916		
1	Bayes Control of Hammerstein Systems. <i>IFAC-PapersOnLine</i> , 2021 , 54, 755-760	0.7	