

# HÃ¥kan Hjalmarsson

## List of Publications by Year in descending order

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58  
papers

1,287  
citations

516710

16  
h-index

454955

30  
g-index

58  
all docs

58  
docs citations

58  
times ranked

646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regret Minimization for Linear Quadratic Adaptive Controllers Using Fisher Feedback Exploration. , 2022, 6, 2870-2875.		2
2	Control of IgG glycosylation in CHO cell perfusion cultures by GReBA mathematical model supported by a novel targeted feed, TAFE. Metabolic Engineering, 2021, 65, 135-145.	7.0	25
3	Recursive Weighted Null-Space Fitting Method for Identification of Multivariate Systems. IFAC-PapersOnLine, 2021, 54, 345-350.	0.9	0
4	Probabilistic model by Bayesian network for the prediction of antibody glycosylation in perfusion and fed-batch cell cultures. Biotechnology and Bioengineering, 2021, 118, 3447-3459.	3.3	5
5	Optimal Input Design Through Infinity Norm Minimization Using Proximal Mapping. , 2021, , .		3
6	Willems's fundamental lemma based on second-order moments. , 2021, , .		1
7	Glycan Residues Balance Analysis - GReBA: A novel model for the N-linked glycosylation of IgG produced by CHO cells. Metabolic Engineering, 2020, 57, 118-128.	7.0	15
8	Learning Robust LQ-Controllers Using Application Oriented Exploration. , 2020, 4, 19-24.		19
9	Identification of Linear Models From Quantized Data: A Midpoint-Projection Approach. IEEE Transactions on Automatic Control, 2020, 65, 2801-2813.	5.7	9
10	On Reducing the Coherence in Sparse System Identification. , 2020, , .		3
11	Estimation of Heteroscedastic Multilinear Systems. , 2020, , .		0
12	Consistent identification of dynamic networks subject to white noise using Weighted Null-Space Fitting. IFAC-PapersOnLine, 2020, 53, 46-51.	0.9	6
13	Unscented Bayes Methods for Hierarchical Gaussian Processes. , 2020, , .		0
14	Estimating models with high-order noise dynamics using semi-parametric weighted null-space fitting. Automatica, 2019, 102, 45-57.	5.0	2
15	Linear prediction error methods for stochastic nonlinear models. Automatica, 2019, 105, 49-63.	5.0	11
16	Toward Tractable Global Solutions to Maximum-Likelihood Estimation Problems via Sparse Sum-of-Squares Relaxations. , 2019, , .		3
17	Parametric Identification Using Weighted Null-Space Fitting. IEEE Transactions on Automatic Control, 2019, 64, 2798-2813.	5.7	10
18	Open-loop asymptotically efficient model reduction with the Steiglitz-McBride method. Automatica, 2018, 89, 221-234.	5.0	13

#	ARTICLE	IF	CITATIONS
19	Approximate Maximum-likelihood Identification of Linear Systems from Quantized Measurements. IFAC-PapersOnLine, 2018, 51, 724-729.	0.9	2
20	Outlier-Robust Estimation of Uncertain-Input Systems With Applications to Nonparametric FIR and Hammerstein Models. , 2018, 2, 647-652.		2
21	Application-Oriented Input Design in System Identification: Optimal Input Design for Control [Applications of Control]. IEEE Control Systems, 2017, 37, 31-56.	0.8	39
22	A new kernel-based approach to system identification with quantized output data. Automatica, 2017, 85, 145-152.	5.0	36
23	Adaptive Input Design for LTI Systems. IEEE Transactions on Automatic Control, 2017, 62, 2390-2405.	5.7	3
24	Kernel-based system identification from noisy and incomplete input-output data. , 2016, , .		2
25	An application-oriented approach to dual control with excitation for closed-loop identification. European Journal of Control, 2016, 29, 1-16.	2.6	20
26	Robust EM kernel-based methods for linear system identification. Automatica, 2016, 67, 114-126.	5.0	37
27	Generation of signals with specified second-order properties for constrained systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 456-472.	4.1	2
28	The Box-Jenkins Steiglitz-McBride algorithm. Automatica, 2016, 65, 170-182.	5.0	18
29	Experimental evaluation of model predictive control with excitation (MPC-X) on an industrial depropanizer. Journal of Process Control, 2015, 31, 1-16.	3.3	35
30	On the variance of identified SIMO systems with spatially correlated output noise. , 2014, , .		2
31	A Note on the SPICE Method. IEEE Transactions on Signal Processing, 2013, 61, 4545-4551.	5.3	41
32	Efficient OOK/DS-CDMA detection threshold selection. , 2013, , .		1
33	Adaptive experiment design for ARMAX systems?. , 2012, , .		1
34	On the Performance of Optimal Input Signals for Frequency Response Estimation. IEEE Transactions on Automatic Control, 2012, 57, 766-771.	5.7	12
35	Analyzing iterations in identification with application to nonparametric $\hat{H}$ -norm estimation. Automatica, 2012, 48, 2776-2790.	5.0	29
36	How to Make Bias and Variance Errors Insensitive to System and Model Complexity in Identification. IEEE Transactions on Automatic Control, 2011, 56, 100-112.	5.7	15

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37	A Geometric Approach to Variance Analysis in System Identification. IEEE Transactions on Automatic Control, 2011, 56, 983-997.	5.7	24
38	Conditions when minimum variance control is the optimal experiment for identifying a minimum variance controller. Automatica, 2011, 47, 578-583.	5.0	13
39	On estimation of the gain of a dynamical system. , 2011, , .		4
40	On optimal input design in system identification for model predictive control. , 2011, , .		12
41	A least squares approach to direct frequency response estimation. , 2011, , .		10
42	On consistent estimation of farthest NMP zeros of stable LTI systems. , 2011, , .		1
43	On optimal input design in system identification for control. , 2010, , .		20
44	On optimal input signal design for frequency response estimation. , 2010, , .		6
45	On optimal input design for nonlinear FIR-type systems. , 2010, , .		22
46	Identification of nonlinear systems using misspecified predictors. , 2010, , .		5
47	MIMO experiment design based on asymptotic model order theory. , 2009, , .		1
48	Identification of ARX systems with non-stationary inputs $\hat{\epsilon}$ asymptotic analysis with application to adaptive input design. Automatica, 2009, 45, 623-633.	5.0	52
49	System Identification of Complex and Structured Systems. European Journal of Control, 2009, 15, 275-310.	2.6	132
50	System identification of complex and structured systems. , 2009, , .		5
51	Identification and control: Joint input design and $\hat{\epsilon}$ asymptotic analysis with application to adaptive input design. Automatica, 2008, 44, 543-551.	5.0	27
52	Closed loop experiment design for linear time invariant dynamical systems via LMIs. Automatica, 2008, 44, 623-636.	5.0	44
53	Variance analysis for identification of cascade systems. , 2008, , .		4
54	A geometric approach to variance analysis in system identification: Linear Time-Invariant Systems. , 2007, , .		11

#	ARTICLE	IF	CITATIONS
55	A geometric approach to variance analysis in system identification: Theory and nonlinear systems. , 2007, , .		12
56	Optimal Input Design for Identification of Non-linear Systems: Learning From the Linear Case. Proceedings of the American Control Conference, 2007, , .	0.0	39
57	ACK-clock Dynamics in Network Congestion Control - An Inner Feedback Loop with Implications on Inelastic Flow Impact. , 2006, , .		9
58	From experiment design to closed-loop control. Automatica, 2005, 41, 393-438.	5.0	410