

Lennart Ljung

List of Publications by Year in descending order

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Version: 2024-02-01

260
papers

20,234
citations

23567

58
h-index

14208

128
g-index

267
all docs

267
docs citations

267
times ranked

8246
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear black-box modeling in system identification: a unified overview. <i>Automatica</i> , 1995, 31, 1691-1724.	5.0	1,730
2	Analysis of recursive stochastic algorithms. <i>IEEE Transactions on Automatic Control</i> , 1977, 22, 551-575.	5.7	1,210
3	Asymptotic behavior of the extended Kalman filter as a parameter estimator for linear systems. <i>IEEE Transactions on Automatic Control</i> , 1979, 24, 36-50.	5.7	955
4	Kernel methods in system identification, machine learning and function estimation: A survey. <i>Automatica</i> , 2014, 50, 657-682.	5.0	714
5	Closed-loop identification revisited. <i>Automatica</i> , 1999, 35, 1215-1241.	5.0	653
6	Theory and applications of self-tuning regulators. <i>Automatica</i> , 1977, 13, 457-476.	5.0	633
7	On global identifiability for arbitrary model parametrizations. <i>Automatica</i> , 1994, 30, 265-276.	5.0	549
8	Subspace-based multivariable system identification from frequency response data. <i>IEEE Transactions on Automatic Control</i> , 1996, 41, 960-979.	5.7	461
9	Perspectives on system identification. <i>Annual Reviews in Control</i> , 2010, 34, 1-12.	7.9	458
10	On the estimation of transfer functions, regularizations and Gaussian processes—Revisited. <i>Automatica</i> , 2012, 48, 1525-1535.	5.0	405
11	Adaptation and tracking in system identification—A survey. <i>Automatica</i> , 1990, 26, 7-21.	5.0	390
12	System Identification. <i>Applied and Numerical Harmonic Analysis</i> , 1998, , 163-173.	0.3	373
13	Convergence analysis of parametric identification methods. <i>IEEE Transactions on Automatic Control</i> , 1978, 23, 770-783.	5.7	371
14	On positive real transfer functions and the convergence of some recursive schemes. <i>IEEE Transactions on Automatic Control</i> , 1977, 22, 539-551.	5.7	369
15	Nonlinear black-box models in system identification: Mathematical foundations. <i>Automatica</i> , 1995, 31, 1725-1750.	5.0	329
16	Identification of piecewise affine systems via mixed-integer programming. <i>Automatica</i> , 2004, 40, 37-50.	5.0	327
17	Fast calculation of gain matrices for recursive estimation schemes. <i>International Journal of Control</i> , 1978, 27, 1-19.	1.9	285
18	Nonlinear System Identification: A User-Oriented Road Map. <i>IEEE Control Systems</i> , 2019, 39, 28-99.	0.8	241

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19	Optimal experiment designs with respect to the intended model application. <i>Automatica</i> , 1986, 22, 543-554.	5.0	240
20	Identification of Hammersteinâ€“Wiener models. <i>Automatica</i> , 2013, 49, 70-81.	5.0	232
21	Error propagation properties of recursive least-squares adaptation algorithms. <i>Automatica</i> , 1985, 21, 157-167.	5.0	212
22	Prediction error estimation methods. <i>Circuits, Systems, and Signal Processing</i> , 2002, 21, 11-21.	2.0	196
23	Linear approximations of nonlinear FIR systems for separable input processes. <i>Automatica</i> , 2005, 41, 459-473.	5.0	186
24	Hard frequency-domain model error bounds from least-squares like identification techniques. <i>IEEE Transactions on Automatic Control</i> , 1992, 37, 900-912.	5.7	182
25	Maximum likelihood identification of Wiener models. <i>Automatica</i> , 2008, 44, 2697-2705.	5.0	173
26	Nonlinear system identification via direct weight optimization. <i>Automatica</i> , 2005, 41, 475-490.	5.0	170
27	Subspace identification from closed loop data. <i>Signal Processing</i> , 1996, 52, 209-215.	3.7	145
28	Comparing different approaches to model error modeling in robust identification. <i>Automatica</i> , 2002, 38, 787-803.	5.0	141
29	Perspectives on System Identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 7172-7184.	0.4	141
30	Asymptotic properties of black-box identification of transfer functions. <i>IEEE Transactions on Automatic Control</i> , 1985, 30, 514-530.	5.7	140
31	Stochastic Approximation and Optimization of Random Systems. , 1992, , .		134
32	System Identification Via Sparse Multiple Kernel-Based Regularization Using Sequential Convex Optimization Techniques. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2933-2945.	5.7	127
33	Segmentation of ARX-models using sum-of-norms regularization. <i>Automatica</i> , 2010, 46, 1107-1111.	5.0	116
34	Performance analysis of general tracking algorithms. <i>IEEE Transactions on Automatic Control</i> , 1995, 40, 1388-1402.	5.7	112
35	A Basic Convergence Result for Particle Filtering. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 1337-1348.	5.3	108
36	Recursive identification of bilinear systems. <i>International Journal of Control</i> , 1987, 45, 453-470.	1.9	102

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37	Implementation of algorithms for tuning parameters in regularized least squares problems in system identification. Automatica, 2013, 49, 2213-2220.	5.0	101
38	Identification of switched linear regression models using sum-of-norms regularization. Automatica, 2013, 49, 1045-1050.	5.0	101
39	Recursive Identification Techniques. Lecture Notes in Statistics, 1983, , 126-137.	0.2	101
40	Analysis of a general recursive prediction error identification algorithm. Automatica, 1981, 17, 89-99.	5.0	97
41	Some results on optimal experiment design. Automatica, 2000, 36, 749-756.	5.0	97
42	Estimating Linear Time-invariant Models of Nonlinear Time-varying Systems. European Journal of Control, 2001, 7, 203-219.	2.6	97
43	Frequency domain versus time domain methods in system identification. Automatica, 1981, 17, 71-86.	5.0	87
44	Terrain navigation using Bayesian statistics. IEEE Control Systems, 1999, 19, 33-40.	0.8	87
45	A novel subspace identification approach with enforced causal models. Automatica, 2005, 41, 2043-2053.	5.0	87
46	Deep Learning and System Identification. IFAC-PapersOnLine, 2020, 53, 1175-1181.	0.9	82
47	Strong Convergence of a Stochastic Approximation Algorithm. Annals of Statistics, 1978, 6, 680.	2.6	81
48	Generalized Kalman smoothing: Modeling and algorithms. Automatica, 2017, 86, 63-86.	5.0	80
49	On the estimation of transfer functions. Automatica, 1985, 21, 677-696.	5.0	79
50	Adaptive control based on explicit criterion minimization. Automatica, 1985, 21, 385-399.	5.0	71
51	Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. Advances in Applied Probability, 1992, 24, 412-440.	0.7	71
52	On The Consistency of Prediction Error Identification Methods. Mathematics in Science and Engineering, 1976, 126, 121-164.	0.1	70
53	Some facts about the choice of the weighting matrices in Larimore type of subspace algorithms. Automatica, 2002, 38, 763-773.	5.0	70
54	A review of time-delay estimation techniques. , 0, , .		70

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55	A shift in paradigm for system identification. <i>International Journal of Control</i> , 2020, 93, 173-180.	1.9	70
56	Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. <i>Advances in Applied Probability</i> , 1992, 24, 412-440.	0.7	65
57	A unified approach to smoothing formulas. <i>Automatica</i> , 1976, 12, 147-157.	5.0	64
58	The role of model validation for assessing the size of the unmodeled dynamics. <i>IEEE Transactions on Automatic Control</i> , 1997, 42, 1230-1239.	5.7	63
59	Performance analysis of the forgetting factor RLS algorithm. <i>International Journal of Adaptive Control and Signal Processing</i> , 1993, 7, 525-537.	4.1	62
60	Subspace-based identification of infinite-dimensional multivariable systems from frequency-response data. <i>Automatica</i> , 1996, 32, 885-902.	5.0	62
61	Closed-loop subspace identification with innovation estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 861-866.	0.4	61
62	Constrained Subspace Method for the Identification of Structured State-Space Models (COSMOS). <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4201-4214.	5.7	60
63	Frequency domain tracking characteristics of adaptive algorithms. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989, 37, 1072-1089.	2.0	59
64	Construction of composite models from observed data. <i>International Journal of Control</i> , 1992, 55, 141-152.	1.9	59
65	Ensuring monotonic gain characteristics in estimated models by fuzzy model structures. <i>Automatica</i> , 2000, 36, 311-317.	5.0	55
66	On asymptotic properties of hyperparameter estimators for kernel-based regularization methods. <i>Automatica</i> , 2018, 94, 381-395.	5.0	55
67	Regressor and structure selection in NARX models using a structured ANOVA approach. <i>Automatica</i> , 2008, 44, 383-395.	5.0	54
68	Four Encounters with System Identification. <i>European Journal of Control</i> , 2011, 17, 449-471.	2.6	54
69	On consistency and identifiability. <i>Mathematical Programming Studies</i> , 1976, , 169-190.	0.8	52
70	Exponential stability of general tracking algorithms. <i>IEEE Transactions on Automatic Control</i> , 1995, 40, 1376-1387.	5.7	52
71	Identification of unstable systems using output error and Box-Jenkins model structures. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 137-141.	5.7	51
72	Bacteria classification based on feature extraction from sensor data. <i>Biotechnology Letters</i> , 1998, 12, 319-324.	0.5	50

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73	Regularized linear system identification using atomic, nuclear and kernel-based norms: The role of the stability constraint. <i>Automatica</i> , 2016, 69, 137-149.	5.0	50
74	Asymptotic variance expressions for closed-loop identification. <i>Automatica</i> , 2001, 37, 781-786.	5.0	47
75	Revisiting Hammerstein system identification through the Two-Stage Algorithm for bilinear parameter estimation. <i>Automatica</i> , 2009, 45, 2627-2633.	5.0	47
76	A Tutorial on Auditory Attention Identification Methods. <i>Frontiers in Neuroscience</i> , 2019, 13, 153.	2.8	47
77	A projection method for closed-loop identification. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 2101-2106.	5.7	45
78	A General Convergence Result for Particle Filtering. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 3424-3429.	5.3	45
79	Version 8 of the Matlab System Identification Toolbox. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 1826-1831.	0.4	44
80	Identification of composite local linear state-space models using a projected gradient search. <i>International Journal of Control</i> , 2002, 75, 1385-1398.	1.9	43
81	Identification of structured state-space models. <i>Automatica</i> , 2018, 90, 54-61.	5.0	43
82	Unprejudiced optimal open loop input design for identification of transfer functions. <i>Automatica</i> , 1985, 21, 697-708.	5.0	41
83	Issues in sampling and estimating continuous-time models with stochastic disturbances. <i>Automatica</i> , 2010, 46, 925-931.	5.0	41
84	Clustering using sum-of-norms regularization: With application to particle filter output computation. , 2011, , .		41
85	Black-box identification of multivariable transfer functionsâ€™ asymptotic properties and optimal input design. <i>International Journal of Control</i> , 1984, 40, 233-256.	1.9	40
86	Necessary and sufficient conditions for stability of LMS. <i>IEEE Transactions on Automatic Control</i> , 1997, 42, 761-770.	5.7	40
87	Recursive identification algorithms. <i>Circuits, Systems, and Signal Processing</i> , 2002, 21, 57-68.	2.0	40
88	Maximum Likelihood Identification of Wiener Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 2714-2719.	0.4	39
89	Smoothed state estimates under abrupt changes using sum-of-norms regularization. <i>Automatica</i> , 2012, 48, 595-605.	5.0	38
90	Maximum entropy properties of discrete-time first-order stable spline kernel. <i>Automatica</i> , 2016, 66, 34-38.	5.0	38

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91	Maximum Entropy Kernels for System Identification. IEEE Transactions on Automatic Control, 2017, 62, 1471-1477.	5.7	37
92	Estimating model variance in the case of undermodeling. IEEE Transactions on Automatic Control, 1992, 37, 1004-1008.	5.7	35
93	Initialisation aspects for subspace and output-error identification methods. , 2003, , .		35
94	Guest Editorial: Special Issue on System Identification. IEEE Transactions on Automatic Control, 2005, 50, 1473-1473.	5.7	35
95	Convergence of an adaptive filter algorithm. International Journal of Control, 1978, 27, 673-693.	1.9	34
96	On the choice of norms in system identification. IEEE Transactions on Automatic Control, 1996, 41, 1367-1372.	5.7	34
97	Frequency-domain identification of continuous-time ARMA models from sampled data. Automatica, 2009, 45, 1371-1378.	5.0	33
98	L2 Model reduction and variance reduction. Automatica, 2002, 38, 1517-1530.	5.0	32
99	Regressor selection with the analysis of variance method. Automatica, 2005, 41, 693-700.	5.0	32
100	Decentralized Particle Filter With Arbitrary State Decomposition. IEEE Transactions on Signal Processing, 2011, 59, 465-478.	5.3	32
101	A result on the mean square error obtained using general tracking algorithms. International Journal of Adaptive Control and Signal Processing, 1991, 5, 231-248.	4.1	30
102	Kernel selection in linear system identification part II: A classical perspective. , 2011, , .		29
103	Using the bootstrap to estimate the variance in the case of undermodeling. IEEE Transactions on Automatic Control, 2002, 47, 395-398.	5.7	28
104	Asymptotic variance expressions for estimated frequency functions. IEEE Transactions on Automatic Control, 2001, 46, 1887-1899.	5.7	26
105	Regularized system identification using orthonormal basis functions. , 2015, , .		26
106	On adaptive smoothing of empirical transfer function estimates. Control Engineering Practice, 2000, 8, 1309-1315.	5.5	25
107	Deep State Space Models for Nonlinear System Identification. IFAC-PapersOnLine, 2021, 54, 481-486.	0.9	25
108	Frequency domain identification of continuous-time output error models, Part II: Non-uniformly sampled data and B-spline output approximation. Automatica, 2010, 46, 11-18.	5.0	24

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109	Initialization of Physical Parameter Estimates. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1483-1488.	0.4	23
110	Model Identification of Linear Parameter Varying Aircraft Systems. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2006, 220, 337-346.	1.3	23
111	On parameter and state estimation for linear differential-algebraic equations. Automatica, 2007, 43, 416-425.	5.0	23
112	Two filter smoothing formulae by diagonalization of the Hamiltonian equations. International Journal of Control, 1982, 36, 663-673.	1.9	22
113	Frequency domain identification of continuous-time output error models, Part I: Uniformly sampled data and frequency function approximation. Automatica, 2010, 46, 1-10.	5.0	22
114	State smoothing by sum-of-norms regularization. , 2010, , .		22
115	An alternative motivation for the indirect approach to closed-loop identification. IEEE Transactions on Automatic Control, 1999, 44, 2206-2209.	5.7	21
116	Model Error Modeling and Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 31-36.	0.4	21
117	Asymptotic Properties of Generalized Cross Validation Estimators for Regularized System Identification. IFAC-PapersOnLine, 2018, 51, 203-208.	0.9	20
118	Asymptotic normality of prediction error estimators for approximate system models. , 1978, , .		19
119	On-line identification and adaptive trajectory tracking for nonlinear stochastic continuous time systems using differential neural networks. Automatica, 2001, 37, 1257-1268.	5.0	19
120	An improved phase method for time-delay estimation. Automatica, 2009, 45, 2467-2470.	5.0	19
121	Impulse response estimation with binary measurements: a regularized FIR model approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 113-118.	0.4	19
122	Some Classical and Some New Ideas for Identification of Linear Systems. Journal of Control, Automation and Electrical Systems, 2013, 24, 3-10.	2.0	19
123	Recursive methods for off-line identification. International Journal of Control, 1985, 41, 177-191.	1.9	18
124	Decomposition methods for solving least-squares parameter estimation. IEEE Transactions on Signal Processing, 1996, 44, 2847-2852.	5.3	17
125	Recursive least-squares and accelerated convergence in stochastic approximation schemes. International Journal of Adaptive Control and Signal Processing, 2001, 15, 169-178.	4.1	17
126	Sparse control using sum-of-norms regularized model predictive control. , 2013, , .		17

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127	Aspects and Experiences of User Choices in Subspace Identification Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1765-1770.	0.4	16
128	Convexity issues in system identification. , 2013, , .		15
129	AN INTEGRATED SYSTEM IDENTIFICATION TOOLBOX FOR LINEAR AND NON-LINEAR MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 931-936.	0.4	14
130	Regularization Features in the System Identification Toolbox. IFAC-PapersOnLine, 2015, 48, 745-750.	0.9	14
131	Blind Identification of Wiener Models*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5597-5602.	0.4	13
132	Regularization strategies for nonparametric system identification. , 2013, , .		13
133	Stochastic Embedding revisited: A modern interpretation. , 2014, , .		13
134	From structurally independent local LTI models to LPV model. Automatica, 2017, 84, 232-235.	5.0	13
135	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. IEEE Transactions on Control of Network Systems, 2018, 5, 737-747.	3.7	13
136	Classical model validation for control design purposes. Mathematical Modelling of Systems, 1997, 3, 27-42.	0.7	12
137	Multiple steps prediction with nonlinear ARX models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 309-314.	0.4	12
138	Developments in The MathWorks System Identification Toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 522-527.	0.4	12
139	Trajectory generation using sum-of-norms regularization. , 2010, , .		12
140	Identification of Piecewise Affine Systems Using Sum-of-Norms Regularization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6640-6645.	0.4	12
141	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. IFAC-PapersOnLine, 2017, 50, 10586-10591.	0.9	12
142	Wiener System Identification Using the Maximum Likelihood Method. Lecture Notes in Control and Information Sciences, 2010, , 89-110.	1.0	12
143	Remarks on the mean square tracking error. International Journal of Adaptive Control and Signal Processing, 1991, 5, 395-403.	4.1	11
144	Identification for control "What is there to learn?." , 1999, , 207-225.		11

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145	Variance Properties of a Two-step ARX Estimation Procedure. European Journal of Control, 2003, 9, 422-430.	2.6	11
146	SOME ASPECTS ON NONLINEAR SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 110-121.	0.4	11
147	Model Error Modeling and Stochastic Embedding. IFAC-PapersOnLine, 2015, 48, 75-79.	0.9	11
148	Benchmark problems for continuous-time model identification: Design aspects, results and perspectives. Automatica, 2019, 107, 511-517.	5.0	11
149	Non-Linear Black Box Models in System Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1-12.	0.4	10
150	Estimation of grey box and black box models for non-linear circuit data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 399-404.	0.4	10
151	Parameter Estimation of Polytopic Models for a Linear Parameter Varying Aircraft System. Transactions of the Japan Society for Aeronautical and Space Sciences, 2006, 49, 129-136.	0.7	10
152	SOME ASPECTS ON NONLINEAR SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 553-564.	0.4	10
153	Manifold-constrained regressors in system identification. , 2008, , .		10
154	Constructive state space model induced kernels for regularized system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1047-1052.	0.4	10
155	Using horizon estimation and nonlinear optimization for grey-box identification. Journal of Process Control, 2015, 30, 69-79.	3.3	10
156	Robust Control of Identified Models with Mixed Parametric and Non-Parametric Uncertainties. European Journal of Control, 2003, 9, 373-380.	2.6	9
157	Version 6 of the system identification toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 957-962.	0.4	9
158	Identification of wiener systems with process noise is a nonlinear errors-in-variables problem. , 2014, , .		9
159	On kernel structures for regularized system identification (II): a system theory perspective*** This work has been supported by a research grant for junior researchers No. 621-2014-5894 and the Linnaeus Center CADICS, both funded by the Swedish Research Council, and the ERC advanced grant LEARN, No. 267381, funded by the European Research Council. http://www.hamecmopsys.ens2m.fr.. IFAC PapersOnLine, 2015, 48, 1041-1046.	0.9	9
160	Tuning of Hyperparameters for FIR models â€“ an Asymptotic Theory. IFAC-PapersOnLine, 2017, 50, 2818-2823.	0.9	9
161	Asymptotic Properties of Hyperparameter Estimators by Using Cross-Validations for Regularized System Identification. , 2018, , .		9
162	Developments for the System Identification Toolbox for MATLAB. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 927-929.	0.4	8

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163	Shaping frequency-dependent time resolution when estimating spectral properties with parametric methods. IEEE Transactions on Signal Processing, 1997, 45, 1025-1035.	5.3	8
164	Linear System Identification as Curve Fitting. , 2003, , 203-215.		8
165	Linear Models of Nonlinear FIR Systems with Gaussian Inputs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1873-1878.	0.4	8
166	COMPARISONS OF SUBSPACE IDENTIFICATION METHODS FOR SYSTEMS OPERATING ON CLOSED-LOOP. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 494-499.	0.4	8
167	The use of nonnegative garrote for order selection of ARX models. , 2008, , .		8
168	Revisiting the Two-Stage Algorithm for Hammerstein system identification. , 2009, , .		8
169	Difference algebra and system identification. Automatica, 2011, 47, 1896-1904.	5.0	8
170	Sparse multiple kernels for impulse response estimation with majorization minimization algorithms. , 2012, , .		8
171	Kernel-based model order selection for identification and prediction of linear dynamic systems. , 2013, , .		8
172	Identification of Stochastic Wiener Systems using Indirect Inference**This work was partially supported by the Swedish Research Council and the Linnaeus Center ACCESS at KTH. The research leading to these results has received funding from The European Research Council under the European Community's Seventh Framework program (FP7 2007-2013) / ERC Grant Agreement N. 267381. IFAC-PapersOnLine, 2015, 48, 620-625.	0.9	8
173	On the input design for kernel-based regularized LTI system identification: Power-constrained inputs. , 2017, , .		8
174	Modelling of industrial systems. Lecture Notes in Computer Science, 1993, , 338-349.	1.3	8
175	System Identification in a MIC perspective. Modeling, Identification and Control, 1994, 15, 153-159.	1.1	8
176	Linear Quadratic Control Using Model-Free Reinforcement Learning. IEEE Transactions on Automatic Control, 2023, 68, 737-752.	5.7	8
177	Asymptotic gain and search direction for recursive identification algorithms. , 1980, , .		7
178	Gaussian-optimal on-line parameter estimation. , 1980, , .		7
179	Aspects on the system identification problem. Signal Processing, 1982, 4, 445-456.	3.7	7
180	7 Estimation of parameters in dynamical systems. Handbook of Statistics, 1985, , 189-211.	0.6	7

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181	Error propagation in adaptation algorithms with poorly exciting signals. Annales Des Telecommunications/Annals of Telecommunications, 1986, 41, 322-327.	2.5	7
182	Issues in sampling and estimating continuous-time models with stochastic disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14360-14365.	0.4	7
183	Scalable anomaly detection in large homogeneous populations. Automatica, 2014, 50, 1459-1465.	5.0	7
184	On kernel structures for regularized system identification (I): a machine learning perspective**This work has been supported by a research grant for junior researchers No. 621-2014-5894 and the Linnaeus Center CADICS, both funded by the Swedish Research Council, and the ERC advanced grant LEARN, No. 267381, funded by the European Research Council. http://www.hamecmopsys.ens2m.fr.. IFAC-PapersOnLine, 2015, 48, 1035-1040.	0.9	7
185	Regularized LTI System Identification with Multiple Regularization Matrix. IFAC-PapersOnLine, 2018, 51, 180-185.	0.9	7
186	Frequency Domain Versus Time Domain Methods in System Identification “ Revisited. , 0, , 277-291.		7
187	Influence of Model Order on Change Detection in Noise-Free, Complex System. , 1990, , .		7
188	Design variables for bias distribution in transfer function estimation. , 1984, , .		6
189	A discussion of adaptive stabilization and robust adaptive control. Systems and Control Letters, 1989, 12, 53-56.	2.3	6
190	A discussion of model accuracy in system identification. International Journal of Adaptive Control and Signal Processing, 1992, 6, 161-171.	4.1	6
191	LTI approximations of slightly nonlinear systems: Some intriguing examples. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 495-500.	0.4	6
192	A GENERAL DIRECT WEIGHT OPTIMIZATION FRAMEWORK FOR NONLINEAR SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 178-183.	0.4	6
193	ON THE ROLE OF FUTURE HORIZON IN CLOSED-LOOP SUBSPACE IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1080-1084.	0.4	6
194	Rank-1 kernels for regularized system identification. , 2013, , .		6
195	Linking regularization and low-rank approximation for impulse response modeling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4999-5004.	0.4	6
196	Variance expressions for spectra estimated using auto-regressions. Journal of Econometrics, 2004, 118, 247-256.	6.5	5
197	Well-posedness of Filtering Problems for Stochastic Linear DAE Models. , 0, , .		5
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