

# Lennart Ljung

## List of Publications by Citations

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#	Paper	IF	Citations
251	Nonlinear black-box modeling in system identification: a unified overview. <i>Automatica</i> , <b>1995</b> , 31, 1691-1724	5.7	1340
250	System Identification <b>1999</b> ,		1319
249	Analysis of recursive stochastic algorithms. <i>IEEE Transactions on Automatic Control</i> , <b>1977</b> , 22, 551-575	5.9	943
248	Asymptotic behavior of the extended Kalman filter as a parameter estimator for linear systems. <i>IEEE Transactions on Automatic Control</i> , <b>1979</b> , 24, 36-50	5.9	712
247	Theory and applications of self-tuning regulators. <i>Automatica</i> , <b>1977</b> , 13, 457-476	5.7	525
246	Closed-loop identification revisited. <i>Automatica</i> , <b>1999</b> , 35, 1215-1241	5.7	495
245	Kernel methods in system identification, machine learning and function estimation: A survey. <i>Automatica</i> , <b>2014</b> , 50, 657-682	5.7	465
244	On global identifiability for arbitrary model parametrizations. <i>Automatica</i> , <b>1994</b> , 30, 265-276	5.7	454
243	Subspace-based multivariable system identification from frequency response data. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 960-979	5.9	335
242	Perspectives on system identification. <i>Annual Reviews in Control</i> , <b>2010</b> , 34, 1-12	10.3	326
241	Adaptation and tracking in system identification A survey. <i>Automatica</i> , <b>1990</b> , 26, 7-21	5.7	307
240	Convergence analysis of parametric identification methods. <i>IEEE Transactions on Automatic Control</i> , <b>1978</b> , 23, 770-783	5.9	300
239	On positive real transfer functions and the convergence of some recursive schemes. <i>IEEE Transactions on Automatic Control</i> , <b>1977</b> , 22, 539-551	5.9	296
238	On the estimation of transfer functions, regularizations and Gaussian processes Revisited. <i>Automatica</i> , <b>2012</b> , 48, 1525-1535	5.7	280
237	Identification of piecewise affine systems via mixed-integer programming. <i>Automatica</i> , <b>2004</b> , 40, 37-50	5.7	260
236	Nonlinear black-box models in system identification: Mathematical foundations. <i>Automatica</i> , <b>1995</b> , 31, 1725-1750	5.7	257
235	System Identification. <i>Applied and Numerical Harmonic Analysis</i> , <b>1998</b> , 163-173	0.6	232

234	Fast calculation of gain matrices for recursive estimation schemes. <i>International Journal of Control</i> , <b>1978</b> , 27, 1-19	1.5	217
233	Optimal experiment designs with respect to the intended model application. <i>Automatica</i> , <b>1986</b> , 22, 543-554	5.7	202
232	Error propagation properties of recursive least-squares adaptation algorithms. <i>Automatica</i> , <b>1985</b> , 21, 157-167	5.7	169
231	Identification of Hammerstein-Wiener models. <i>Automatica</i> , <b>2013</b> , 49, 70-81	5.7	159
230	Prediction error estimation methods. <i>Circuits, Systems, and Signal Processing</i> , <b>2002</b> , 21, 11-21	2.2	147
229	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 900-912	5.9	145
228	Linear approximations of nonlinear FIR systems for separable input processes. <i>Automatica</i> , <b>2005</b> , 41, 459-473	5.7	142
227	Maximum likelihood identification of Wiener models. <i>Automatica</i> , <b>2008</b> , 44, 2697-2705	5.7	139
226	Subspace identification from closed loop data. <i>Signal Processing</i> , <b>1996</b> , 52, 209-215	4.4	123
225	Comparing different approaches to model error modeling in robust identification. <i>Automatica</i> , <b>2002</b> , 38, 787-803	5.7	119
224	Nonlinear system identification via direct weight optimization. <i>Automatica</i> , <b>2005</b> , 41, 475-490	5.7	110
223	Asymptotic properties of black-box identification of transfer functions. <i>IEEE Transactions on Automatic Control</i> , <b>1985</b> , 30, 514-530	5.9	103
222	Stochastic Approximation and Optimization of Random Systems <b>1992</b> ,		96
221	Nonlinear System Identification: A User-Oriented Road Map. <i>IEEE Control Systems</i> , <b>2019</b> , 39, 28-99	2.9	93
220	System Identification Via Sparse Multiple Kernel-Based Regularization Using Sequential Convex Optimization Techniques. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2933-2945	5.9	89
219	Segmentation of ARX-models using sum-of-norms regularization. <i>Automatica</i> , <b>2010</b> , 46, 1107-1111	5.7	89
218	A Basic Convergence Result for Particle Filtering. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 1337-1348	4.4	82
217	Recursive Identification Techniques. <i>Lecture Notes in Statistics</i> , <b>1983</b> , 126-137	2.9	80

216	Some results on optimal experiment design. <i>Automatica</i> , <b>2000</b> , 36, 749-756	5.7	79
215	Estimating Linear Time-invariant Models of Nonlinear Time-varying Systems. <i>European Journal of Control</i> , <b>2001</b> , 7, 203-219	2.5	78
214	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1388-1402	5.9	77
213	On the estimation of transfer functions. <i>Automatica</i> , <b>1985</b> , 21, 677-696	5.7	75
212	Identification of switched linear regression models using sum-of-norms regularization. <i>Automatica</i> , <b>2013</b> , 49, 1045-1050	5.7	72
211	Recursive identification of bilinear systems. <i>International Journal of Control</i> , <b>1987</b> , 45, 453-470	1.5	72
210	Implementation of algorithms for tuning parameters in regularized least squares problems in system identification. <i>Automatica</i> , <b>2013</b> , 49, 2213-2220	5.7	71
209	Frequency domain versus time domain methods in system identification. <i>Automatica</i> , <b>1981</b> , 17, 71-86	5.7	70
208	Analysis of a general recursive prediction error identification algorithm. <i>Automatica</i> , <b>1981</b> , 17, 89-99	5.7	69
207	Strong Convergence of a Stochastic Approximation Algorithm. <i>Annals of Statistics</i> , <b>1978</b> , 6, 680	3.2	69
206	A novel subspace identification approach with enforced causal models. <i>Automatica</i> , <b>2005</b> , 41, 2043-2053	5.7	60
205	Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. <i>Advances in Applied Probability</i> , <b>1992</b> , 24, 412-440	0.7	59
204	Some facts about the choice of the weighting matrices in Larimore type of subspace algorithms. <i>Automatica</i> , <b>2002</b> , 38, 763-773	5.7	58
203	. <i>IEEE Control Systems</i> , <b>1999</b> , 19, 33-40	2.9	54
202	Construction of composite models from observed data. <i>International Journal of Control</i> , <b>1992</b> , 55, 141-152	5.7	52
201	The role of model validation for assessing the size of the unmodeled dynamics. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 1230-1239	5.9	51
200	A unified approach to smoothing formulas. <i>Automatica</i> , <b>1976</b> , 12, 147-157	5.7	49
199	Subspace-based identification of infinite-dimensional multivariable systems from frequency-response data. <i>Automatica</i> , <b>1996</b> , 32, 885-902	5.7	48

198	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , <b>1989</b> , 37, 1072-1089		48
197	Adaptive control based on explicit criterion minimization. <i>Automatica</i> , <b>1985</b> , 21, 385-399	5-7	48
196	Generalized Kalman smoothing: Modeling and algorithms. <i>Automatica</i> , <b>2017</b> , 86, 63-86	5-7	47
195	Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. <i>Advances in Applied Probability</i> , <b>1992</b> , 24, 412-440	0-7	47
194	Regressor and structure selection in NARX models using a structured ANOVA approach. <i>Automatica</i> , <b>2008</b> , 44, 383-395	5-7	46
193	Performance analysis of the forgetting factor RLS algorithm. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>1993</b> , 7, 525-537	2-8	44
192	Bacteria classification based on feature extraction from sensor data. <i>Biotechnology Letters</i> , <b>1998</b> , 12, 319-324		43
191	Ensuring monotonic gain characteristics in estimated models by fuzzy model structures. <i>Automatica</i> , <b>2000</b> , 36, 311-317	5-7	43
190	On consistency and identifiability. <i>Mathematical Programming Studies</i> , <b>1976</b> , 169-190		43
189	Four Encounters with System Identification. <i>European Journal of Control</i> , <b>2011</b> , 17, 449-471	2-5	41
188	Asymptotic variance expressions for closed-loop identification. <i>Automatica</i> , <b>2001</b> , 37, 781-786	5-7	40
187	Revisiting Hammerstein system identification through the Two-Stage Algorithm for bilinear parameter estimation. <i>Automatica</i> , <b>2009</b> , 45, 2627-2633	5-7	39
186	A review of time-delay estimation techniques		39
185	. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 4201-4214	5-9	39
184	Identification of unstable systems using output error and Box-Jenkins model structures. <i>IEEE Transactions on Automatic Control</i> , <b>2000</b> , 45, 137-141	5-9	37
183	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1376-1387	5-9	37
182	A General Convergence Result for Particle Filtering. <i>IEEE Transactions on Signal Processing</i> , <b>2011</b> , 59, 3424-3429	4-8	36
181	Closed-loop subspace identification with innovation estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 861-866		36

180	Identification of composite local linear state-space models using a projected gradient search. <i>International Journal of Control</i> , <b>2002</b> , 75, 1385-1398	1.5	36
179	Black-box identification of multivariable transfer functions—symptotic properties and optimal input design. <i>International Journal of Control</i> , <b>1984</b> , 40, 233-256	1.5	36
178	Issues in sampling and estimating continuous-time models with stochastic disturbances. <i>Automatica</i> , <b>2010</b> , 46, 925-931	5.7	34
177	Perspectives on System Identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 7172-7184		34
176	Unprejudiced optimal open loop input design for identification of transfer functions. <i>Automatica</i> , <b>1985</b> , 21, 697-708	5.7	34
175	A projection method for closed-loop identification. <i>IEEE Transactions on Automatic Control</i> , <b>2000</b> , 45, 2101-2106	5.9	33
174	Regularized linear system identification using atomic, nuclear and kernel-based norms: The role of the stability constraint. <i>Automatica</i> , <b>2016</b> , 69, 137-149	5.7	32
173	Convergence of an adaptive filter algorithm. <i>International Journal of Control</i> , <b>1978</b> , 27, 673-693	1.5	32
172	A shift in paradigm for system identification. <i>International Journal of Control</i> , <b>2020</b> , 93, 173-180	1.5	31
171	Version 8 of the Matlab System Identification Toolbox. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 1826-1831		30
170	Identification of structured state-space models. <i>Automatica</i> , <b>2018</b> , 90, 54-61	5.7	29
169	Regressor selection with the analysis of variance method. <i>Automatica</i> , <b>2005</b> , 41, 693-700	5.7	29
168	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 1004-1008	5.9	29
167	Necessary and sufficient conditions for stability of LMS. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 761-770	5.9	28
166	On asymptotic properties of hyperparameter estimators for kernel-based regularization methods. <i>Automatica</i> , <b>2018</b> , 94, 381-395	5.7	28
165	Recursive identification algorithms. <i>Circuits, Systems, and Signal Processing</i> , <b>2002</b> , 21, 57-68	2.2	27
164	On the choice of norms in system identification. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1367-1372	5.7	27
163	Maximum entropy properties of discrete-time first-order stable spline kernel. <i>Automatica</i> , <b>2016</b> , 66, 34-38	5.7	27

162	System Identification <b>2017</b> , 1-19		26
161	Smoothed state estimates under abrupt changes using sum-of-norms regularization. <i>Automatica</i> , <b>2012</b> , 48, 595-605	5.7	26
160	. <i>IEEE Transactions on Signal Processing</i> , <b>2011</b> , 59, 465-478	4.8	26
159	Maximum Entropy Kernels for System Identification. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1471-1477	5.9	25
158	Using the bootstrap to estimate the variance in the case of undermodeling. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 395-398	5.9	25
157	A result on the mean square error obtained using general tracking algorithms. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>1991</b> , 5, 231-248	2.8	25
156	Frequency-domain identification of continuous-time ARMA models from sampled data. <i>Automatica</i> , <b>2009</b> , 45, 1371-1378	5.7	24
155	L2 Model reduction and variance reduction. <i>Automatica</i> , <b>2002</b> , 38, 1517-1530	5.7	24
154	A Tutorial on Auditory Attention Identification Methods. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 153	5.1	23
153	Kernel selection in linear system identification part II: A classical perspective <b>2011</b> ,		23
152	Initialisation aspects for subspace and output-error identification methods <b>2003</b> ,		22
151	Regularized system identification using orthonormal basis functions <b>2015</b> ,		21
150	Clustering using sum-of-norms regularization: With application to particle filter output computation <b>2011</b> ,		20
149	On The Consistency of Prediction Error Identification Methods. <i>Mathematics in Science and Engineering</i> , <b>1976</b> , 126, 121-164		20
148	Frequency domain identification of continuous-time output error models, Part II: Non-uniformly sampled data and B-spline output approximation. <i>Automatica</i> , <b>2010</b> , 46, 11-18	5.7	19
147	Asymptotic variance expressions for estimated frequency functions. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1887-1899	5.9	18
146	Two filter smoothing formulae by diagonalization of the Hamiltonian equations—This work was supported in part by the U.S. Army Research Office, under Contract DAAG29-79-C-0215, the Air Force Office of Scientific Research, Air Force Systems Command under Contract AF49-620-79-C-0058, and the Defense Research Projects Agency under Contract	1.5	18
145	On-line identification and adaptive trajectory tracking for nonlinear stochastic continuous time systems using differential neural networks. <i>Automatica</i> , <b>2001</b> , 37, 1257-1268	5.7	17

144	An alternative motivation for the indirect approach to closed-loop identification. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 2206-2209	5.9	17
143	Frequency domain identification of continuous-time output error models, Part I: Uniformly sampled data and frequency function approximation. <i>Automatica</i> , <b>2010</b> , 46, 1-10	5.7	15
142	Recursive methods for off-line identification. <i>International Journal of Control</i> , <b>1985</b> , 41, 177-191	1.5	15
141	On parameter and state estimation for linear differential-algebraic equations. <i>Automatica</i> , <b>2007</b> , 43, 416-425	5.7	14
140	Model Identification of Linear Parameter Varying Aircraft Systems. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2006</b> , 220, 337-346	0.9	14
139	Model Error Modeling and Control Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 31-36		14
138	Deep Learning and System Identification. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 1175-1181	0.7	14
137	An improved phase method for time-delay estimation. <i>Automatica</i> , <b>2009</b> , 45, 2467-2470	5.7	13
136	Recursive least-squares and accelerated convergence in stochastic approximation schemes. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2001</b> , 15, 169-178	2.8	13
135	On adaptive smoothing of empirical transfer function estimates. <i>Control Engineering Practice</i> , <b>2000</b> , 8, 1309-1315	3.9	13
134	Some Classical and Some New Ideas for Identification of Linear Systems. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2013</b> , 24, 3-10	1.5	12
133	<b>2013</b> ,		12
132	Impulse response estimation with binary measurements: a regularized FIR model approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 113-118		12
131	Initialization of Physical Parameter Estimates. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 1483-1488		12
130	Decomposition methods for solving least-squares parameter estimation. <i>IEEE Transactions on Signal Processing</i> , <b>1996</b> , 44, 2847-2852	4.8	12
129	Asymptotic normality of prediction error estimators for approximate system models <b>1978</b> ,		12
128	Trajectory generation using sum-of-norms regularization <b>2010</b> ,		11
127	Classical model validation for control design purposes. <i>Mathematical Modelling of Systems</i> , <b>1997</b> , 3, 27-42		11



126	Aspects and Experiences of User Choices in Subspace Identification Methods. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 1765-1770		11
125	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 737-747	4	10
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122	From structurally independent local LTI models to LPV model. <i>Automatica</i> , <b>2017</b> , 84, 232-235	5.7	9
121	Linear Dynamic Network Reconstruction from Heterogeneous Datasets. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10586-10591	0.7	9
120	Blind Identification of Wiener Models*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 5597-5602		9
119	Variance Properties of a Two-step ARX Estimation Procedure. <i>European Journal of Control</i> , <b>2003</b> , 9, 422-430		9
118	Remarks on the mean square tracking error. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>1991</b> , 5, 395-403	2.8	9
117	Regularization Features in the System Identification Toolbox. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 745-750	0.7	8
116	Identification of wiener systems with process noise is a nonlinear errors-in-variables problem <b>2014</b> ,		8
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112	Manifold-constrained regressors in system identification <b>2008</b> ,		8
111	Parameter Estimation of Polytopic Models for a Linear Parameter Varying Aircraft System. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , <b>2006</b> , 49, 129-136	0.8	8
110	Wiener System Identification Using the Maximum Likelihood Method. <i>Lecture Notes in Control and Information Sciences</i> , <b>2010</b> , 89-110	0.5	8
109	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. <i>IFAC-PapersOnLine</i> , 2015, 48, 620-625	0.7	7

108	Model Error Modeling and Stochastic Embedding. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 75-79	0.7	7
107	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	0.7	7
106	Sparse multiple kernels for impulse response estimation with majorization minimization algorithms <b>2012</b> ,		7
105	Difference algebra and system identification. <i>Automatica</i> , <b>2011</b> , 47, 1896-1904	5.7	7
104	SOME ASPECTS ON NONLINEAR SYSTEM IDENTIFICATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 110-121		7
103	Linear Models of Nonlinear FIR Systems with Gaussian Inputs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 1873-1878		7
102	Multiple steps prediction with nonlinear ARX models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2004</b> , 37, 309-314		7
101	Aspects on the system identification problem. <i>Signal Processing</i> , <b>1982</b> , 4, 445-456	4.4	7
100	Deep State Space Models for Nonlinear System Identification. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 481-486	0.7	7
99	Asymptotic Properties of Generalized Cross Validation Estimators for Regularized System Identification. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 203-208	0.7	7
98	Frequency Domain Versus Time Domain Methods in System Identification [Revisited]277-291		7
97	Using horizon estimation and nonlinear optimization for grey-box identification. <i>Journal of Process Control</i> , <b>2015</b> , 30, 69-79	3.9	6
96	Benchmark problems for continuous-time model identification: Design aspects, results and perspectives. <i>Automatica</i> , <b>2019</b> , 107, 511-517	5.7	6
95	Scalable anomaly detection in large homogeneous populations. <i>Automatica</i> , <b>2014</b> , 50, 1459-1465	5.7	6
94	Constructive state space model induced kernels for regularized system identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 1047-1052		6
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91	Shaping frequency-dependent time resolution when estimating spectral properties with parametric methods. <i>IEEE Transactions on Signal Processing</i> , <b>1997</b> , 45, 1025-1035	4.8	6

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88	Asymptotic gain and search direction for recursive identification algorithms <b>1980</b> ,		6
87	Regularized LTI System Identification with Multiple Regularization Matrix. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 180-185	0.7	6
86	Tuning of Hyperparameters for FIR models in an Asymptotic Theory. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2818-2823		5
85	On kernel structures for regularized system identification (I): a machine learning perspective. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 1035-1040	0.7	5
84	Rank-1 kernels for regularized system identification <b>2013</b> ,		5
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82	State smoothing by sum-of-norms regularization <b>2010</b> ,		5
81	AN INTEGRATED SYSTEM IDENTIFICATION TOOLBOX FOR LINEAR AND NON-LINEAR MODELS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 931-936		5
80	Version 6 of the system identification toolbox. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 957-962		5
79	LTI approximations of slightly nonlinear systems: Some intriguing examples. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2004</b> , 37, 495-500		5
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