

Publications: Lennart Ljung 2005-2010

1. **Decentralized particle filter with arbitrary state decomposition**
Authors: T. Chen, T. Schön, H. Ohlsson, L. Ljung
Published: IEEE Transactions on Signal Processing, Vol 59, pp 465-478, 2011.
2. **Frequency-Domain Identification of Continuous-Time Output Error Models: Part II - Non-uniformly Sampled Data and B-spline output approximation**
Authors: J. Gillberg, L. Ljung
Published: Automatica, Vol 46, pp 11-18, 2010.
3. **Frequency-Domain Identification of Continuous-Time Output Error Models: Part I - Uniformly Sampled Data and Frequency-function Approximation**
Authors: J. Gillberg, L. Ljung
Published: Automatica, Vol 46, pp 1-10, 2010.
4. **Issues in sampling and estimating continuous-time models with stochastic disturbances**
Authors: L. Ljung, A. Wills
Published: Automatica, Vol 46, pp 925-931, 2010.
5. **Perspectives on System Identification**
Author: L. Ljung
Published: Annual Reviews in Control, Vol 34, pp 1--12, 2010.
6. **Semi-supervised regression and System Identification**
Authors: H. Ohlsson, L. Ljung
Published: Three Decades of Progress in Systems and Control, Ed: X. Hu, U. Jonsson, B. Wahlberg and B. Ghosh, Springer Verlag, 2010.
7. **Segmentation of ARX-models using sum-of-norms regularization**
Authors: H. Ohlsson, L. Ljung, S. Boyd
Published: Automatica, Vol 46, pp 1107 - 1111, 2010.
8. **On Manifolds, Climate Reconstruction and Bivalve Shells**
Authors: H. Ohlsson, M. Bauwens, L. Ljung
Published: LiTH-ISY-R-2945, Mar 2010.
9. **Segmentation of ARX-models using sum-of-norms regularization**
Authors: H. Ohlsson, L. Ljung, S. Boyd
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10. **Semi-supervised regression and System Identification**
Authors: H. Ohlsson, L. Ljung
Published: LiTH-ISY-R-2940, Mar 2010.
11. **Grey-box identification based on horizon estimation and nonlinear optimization**
Authors: A. Isaksson, D. Törnqvist, J. Sjöberg, L. Ljung
Published: LiTH-ISY-R-2963, Jul 2010.
12. **Wiener system identification using the maximum likelihood method**

- Authors:** Wills,, A., L. Ljung
Published: Block-Oriented Nonlinear System Identification, Ed: F. Giri and E. W. Bai, Springer, 2010.
13. **Approaches to identification of nonlinear systems**
Author: L. Ljung
Published: Proc. 29th Chinese Control Conference, 2010.
14. **Frequency Domain Identification of Continuous Time ARMA Models from Sampled Data**
Authors: J. Gillberg, L. Ljung
Published: LiTH-ISY-R-2983, Dec 2010.
15. **Revisiting Hammerstein system identification through the two-stage algorithm for bilinear parameter estimation**
Authors: Wang, J, Zhang, Q, L. Ljung
Published: LiTH-ISY-R-2984, Dec 2010.
16. **An improved phase method for time-delay estimation**
Authors: S. Björklund, L. Ljung
Published: LiTH-ISY-R-2985, Dec 2010.
17. **Frequency-domain Identification of Continuous-time Output Error Models. Part I - Uniformly Sampled Data and Frequency Function Approximation**
Authors: J. Gillberg, L. Ljung
Published: LiTH-ISY-R-2986, Dec 2010.
18. **Frequency-domain Identification of Continuous-time Output Error Models. Part II - Non-uniformly Sampled Data and B-spline Output Approximation**
Authors: J. Gillberg, L. Ljung
Published: LiTH-ISY-R-2987, Dec 2010.
19. **Issues in Sampling and Estimating Continuous-time Models with Stochastic Disturbances**
Authors: L. Ljung, Wills, A
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20. **Perspectives on System Identification**
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21. **Wiener System Identification Using the Maximum Likelihood Method**
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Published: LiTH-ISY-R-2990, Dec 2010.
22. **Approaches to Identification of Nonlinear Systems**
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23. **Decentralization of Particle Filters Using Arbitrary State Decomposition**
Authors: T. Chen, T. Schön, H. Ohlsson, L. Ljung
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Authors: H. Ohlsson, F. Gustafsson, L. Ljung, Boyd, S.
Published: 49th IEEE Conference on Decision and Control, 2010.
25. **Trajectory Generation Using Sum-of-Norms Regularization**
Authors: H. Ohlsson, F. Gustafsson, L. Ljung, Boyd, S.
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26. **Handling Certain Structure Information in Subspace Identification**
Authors: C. Lyzell, M. Enqvist, L. Ljung
Published: LiTH-ISY-R-2890, Apr 2009.
27. **Handling Certain Structure Information in Subspace Identification**
Authors: C. Lyzell, M. Enqvist, L. Ljung
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28. **Identification Aspects of Ritt's Algorithm for Discrete-Time Systems**
Authors: C. Lyzell, T. Glad, M. Enqvist, L. Ljung
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32. **Frequency Domain Identification of Continuous Time {ARMA} models from Sampled Data**
Authors: J. Gillberg, L. Ljung
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33. **Wiener Hammerstein Benchmark**
Authors: J. Schoukens, J. Suykens, L. Ljung
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34. **Optimality Analysis of the two stage algorithm Hammerstein System Identification**
Authors: J. Wang, Q. Zhang, L. Ljung
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35. **Minimax confidence intervals for pointwise nonparametric regression estimation**
Authors: A. Juditsky, L. Ljung, A. V. Nazin, A. Nemirovski
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36. **Experiments with identification of continuous time models**

- Author:** L. Ljung
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37. **Developments in {M}athworks System Identification Toolbox**
Authors: L. Ljung, R. Singh, Q. Zhang, P. Lindskog, A. Juditski
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38. **Perspectives on System Identification**
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Authors: L. Ljung, A. Wills
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Authors: A. Hagenblad, L. Ljung, A. Wills
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41. **Maximum Likelihood Identification of Wiener models: Journal version**
Authors: A. Hagenblad, L. Ljung, A. Wills
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42. **New Convergence Results for Least Squares Identification Algorithm**
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43. **Frequency-Domain Identification of Continuous-Time ARMA Models from**
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47. **Optimality analysis of the Two-Stage Algorithm for Hammerstein system identification**
Authors: Q. Zhang, J. Wang, L. Ljung
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51. **On Manifolds, Climate Reconstruction and Bivalve Shells**
Authors: H. Ohlsson, M. Bauwens, L. Ljung
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52. **Basic Convergence Results for Particle Filtering Methods: Theory for the Users**
Authors: X. Hu, T. Schön, L. Ljung
Published: LiTH-ISY-R-2914, Aug 2009.
53. **Direct prediction-error identification of unstable nonlinear systems applied to flight test data**
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Authors: I. Lind, L. Ljung
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58. **Direct Weight Optimization in Statistical Estimation and System Identification**
Authors: A. Nazin, J. Roll, L. Ljung, I. Grama
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59. **Direct Weight Optimization Applied to Discontinuous Functions**
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Authors: S. Gunnarsson, L. Ljung, L. Nielsen, I. Klein
Published: Ingenjörsutbildningarnas Utvecklingskonferens, 2008.
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67. **Perspectives on System Identification**
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68. **The Use of Nonnegative Garrote for Order Selection of ARX Models**
Authors: C. Lyzell, J. Roll, L. Ljung
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71. **On parameter and state estimation for linear differential-algebraic equations**
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- 73. Global Identifiability of Complex Models, Constructed from Simple Submodels**
Authors: M. Gerdin, T. Glad, L. Ljung
Published: Lecture Notes in Control and Information Sciences, 2007.
- 74. A Basic Convergence Result for Particle Filtering**
Authors: X. Hu, T. Schön, L. Ljung
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- 75. Direct Weight Optimization in Nonlinear Function Estimation and System Identification**
Authors: A. Nazin, J. Roll, L. Ljung
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- 76. A Basic Convergence Result for Particle Filtering**
Authors: X. Hu, T. Schön, L. Ljung
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- 77. Using Manifold Learning for Nonlinear System Identification**
Authors: H. Ohlsson, J. Roll, T. Glad, L. Ljung
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- 78. Using Manifold Learning for Nonlinear System Identification**
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- 80. Identification of Nonlinear Systems**
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- 81. Some Aspects on Nonlinear System Identification**
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- 82. An integrated System Identification toolbox for linear and non-linear models**
Authors: L. Ljung, Qinghua Zhang, Peter Lindskog, Anatoli Iouditski, Rajiv Singh
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- 83. Identification of Wiener systems with monotonous nonlinearity**
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- 84. Frequency Domain Versus Time Domain Methods in System Identification --- Revisited**
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85. **Model identification of linear parameter varying aircraft systems**
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86. **Interactive visualization as a tool for analysing time-varying and non-linear systems**
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87. **Nonlinear dynamics identified by multi-index models**
Authors: D. Lindgren, L. Ljung
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88. **Estimation of grey box and black box models for non-linear circuit data**
Authors: L. Ljung, Q. Zhang, P. Lindskog, A. Juditski
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89. **Multiple steps prediction with nonlinear ARX models**
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92. **State of the Art in Linear System Identification: Time and Frequency Domain Methods**
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93. **Interactive analysis of time-varying systems using volume graphics**
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97. **Direct Weight Optimization in Nonlinear Function Estimation and System Identification**
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98. **Regressor and Structure Selection in NARX Models Using a Structured ANOVA Approach**
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104. **On Consistency of Closed-loop Subspace Identification with Innovation Estimation**
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