

Publications by Anders Lindquist

(some recent papers can be found at <http://www.math.kth.se/~alq/>)

Books

1. *Linear Stochastic Systems: A Geometric Approach to Modeling, Estimation and Identification* (with G. Picci), Springer Berlin Heidelberg, 2015.
2. *New Directions and Applications in Control Theory* (Editor, with W. P. Dayawansa and Y. Zhou), Springer Verlag, 2005.
3. *Computational and Combinatorial Methods in Systems Theory* (Editor, with C.I. Byrnes), North-Holland, 1986.
4. *Theory and Applications of Nonlinear Control Systems* (Editor, with C.I. Byrnes), North-Holland, 1986.
5. *Modeling, Identification and Robust Control* (Editor, with C.I. Byrnes), North-Holland, 1986.
6. *Frequency Domain and State Space Methods for Linear Systems* (Editor, with C.I. Byrnes), North-Holland, 1986.

Articles

1. *Kalman's influence on my scientific work: Some recollections and reflections*, IEEE Control Systems Magazine 37(2), April 2017, invited paper.
2. *Likelihood analysis of power spectra and generalized moment problems* (with T.T. Georgiou), IEEE Trans. Automatic Control 62, (September 2017), to be published (also arXiv:1605.03652).
3. *Optimal estimation with missing observations via balanced time-symmetric stochastic models* (with T.T. Georgiou), IEEE Trans. Automatic Control 62 (November 2017), to be published (also arXiv:1503.06014v2).
4. *Modeling of stationary periodic time series by ARMA representations* (with G. Picci), In: Boris Goldengorin (Ed.). Optimization and Its Applications in Control and Data Sciences: in Honor of Boris T. Polyaks 80th Birthday. Springer Optimization and Its Applications, Vol. 115, Pages 281-314, Springer, New York, 2016.
5. *Multidimensional rational covariance extension with applications to spectral estimation and image compression* (with A. Rindh and J. Karlsson), SIAM J. Control and Optimization 54(4) (2016), 1950-1982.

6. *The multidimensional moment problem with complexity constraint* (with J. Karlsson and A. Ringh), *Integral Equations and Operator Theory* 84 (2016), 395–418.
7. *An identification approach to image deblurring* (with Bin Zhu), 2016 Chinese control conference, Chengdu, China, pp. 235–241.
8. *The multidimensional circulant rational covariance extension problem: Solutions and applications in image compression* (with J. Karlsson and A. Ringh), *Proc. 1015 IEEE Decision and Control Conference*, Osaka, Japan, pp. 5320–5327.
9. *Spectral estimation of periodic and skew periodic random signals and approximation of spectral densities* (with A. Ringh), *Proceedings of the 33rd Chinese Control Conference*, July 28–30, 2014, Nanjing, China, pp. 5322–5327.
10. *On time-reversibility of linear stochastic models* (with T.T. Georgiou), *IFAC World Congress*, 2014.
11. *Moment-based Dirac mixture approximation of circular densities* (with Uwe D. Hanebeck), *IFAC World Congress*, 2014.
12. *On the multivariate circulant rational covariance extension problem* (with C. Masiero and G. Picci), *Proc. 52nd Conf. Decision and Control (CDC 2013)*, 2013.
13. *The circulant rational covariance extension problem: the complete solution* (with G. Picci), *IEEE Trans. Automatic Control* 58 (November 2013), 2848–2861.
14. *The separation principle in stochastic control, redux* (with T.T. Georgiou), *IEEE Trans. Automatic Control* 58 (October 2013), 2481–2494.
15. *ARMA identification of graphical models* (with E. Avventi and B. Wahlberg), *IEEE Trans. Automatic Control* 58 (May 2013), 1167–1178.
16. *Revisiting the separation principle in stochastic control* (with T.T. Georgiou), *Proc. 51st Conf. Decision and Control (CDC 2012)*, 2012.
17. *Graphical models of autoregressive moving-average processes* (with E. Avventi and B. Wahlberg), *Proc. 2010 MTNS*.
18. *The inverse problem of analytic interpolation with degree constraint and weight selection for control synthesis* (with J. Karlsson and T. T. Georgiou), *IEEE Trans. Automatic Control*, **AC-55** (2010), 405–418.

19. *On the stability and instability of Padé approximants* (with C. I. Byrnes), in *Perspectives in Mathematical System Theory, Control, and Signal Processing*, J.C. Willems, S. Hara, Y. Ohta and H. Fujioka (Eds.), Springer Verlag Lecture Notes Series in Control and Information Sciences, 2010, pp. 165–175.
20. *The moment problem for rational measures: convexity in the spirit of Krein* (with C. I. Byrnes), in *Modern Analysis and Application: Mark Krein Centenary Conference, Vol. I: Operator Theory and Related Topics*, Book Series: Operator Theory Advances and Applications Volume 190, Birkhuser, 2009, pp. 157 – 169.
21. *A global injective function theorem* (with C. I. Byrnes), submitted for publication.
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25. *Weight selection for gap robustness with degree-constrained controllers* (with J. Karlsson and T.T. Georgeou), *Proc. 47th IEEE Conf. Decision and Control*, 2008, pp. 4127–4134.
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27. *A convex optimization approach to ARMA modeling* (with T. T. Georgiou), *IEEE Trans. Automatic Control* **53** (2008), 1108–1119.
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35. *Generalized interpolation in H -infinity with a complexity constraint* (with C. I. Byrnes, T. T. Georgiou and A. Megretski), Transactions of the American Mathematical Society **358** (2006), no. 3, pp. 965–987 (electronically published on December 9, 2004).
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37. *A global analysis approach to passivity preserving model reduction* (with G. Fanizza, J. Karlsson and R. Nagamune), Proc. 45th IEEE Conf. Decision and Control, 2006, pp. 3399–3404.
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Book Reviews

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