List of publications

Thomas B. Schön

Department of Information Technology
Uppsala University
Sweden

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Working manuscripts


Books and monographs


Peer reviewed journal papers


[J65] Li-Hui Geng, Adrian Wills, Brett Ninness and Thomas B. Schön. Smoothed state estimation via efficient solution of linear equations. IEEE Transactions on Automatic Control, 2023. (Accepted for publication)


**Editorials**


**Debate articles**


**Popular scientific**


**Peer reviewed book chapters**


Peer reviewed conference papers


[C99] Lawrence M. Murray, Daniel Lundén, Jan Kudlicka, David Broman and Thomas B. Schön. Delayed sampling and automatic Rao-Blackwellization of probabilistic programs. In Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS), Lanzarote, Spain, April, 2018. (Oral presentation)


[C53] Fredrik Lindsten, Thomas B. Schön and Lennart Svensson. A non-degenerate Rao-

[C52] Soren Henriksen, Adrian Wills, Thomas B. Schön and Brett Ninness. Parallel implementation of particle MCMC methods on a GPU. In Proceeding of the 16th IFAC Symposium on System Identification (SYSID), Brussels, Belgium, July 2012.


[C46] Zoran Sjanic, Martin A. Skoglund, Thomas B. Schön and Fredrik Gustafsson. A nonlinear least-squares approach to the SLAM problem. In Proceeding of the 18th World Congress of the International Federation of Automatic Control (IFAC), Milan, Italy, August-September 2011.


Adrian Wills, Thomas B. Schön, and Brett Ninness. Parameter estimation for discrete-time nonlinear systems using EM. In Proceedings of the 17th World Congress of the International Federation of Automatic Control (IFAC), Seoul, South Korea, July 2008.


Relevant national conference papers


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Limited peer reviewed workshop, conference papers and abstracts

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<td>[CA20]</td>
<td>Fredrik K. Gustafsson, Martin Danelljan and Thomas B. Schön</td>
<td>Accurate 3D object detection using energy-based models</td>
<td>In the Workshop on Autonomous Driving (WAD) at the conference on Computer Vision and Pattern Recognition (CVPR), Online, 2021.</td>
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<td>[CA19]</td>
<td>Antônio H. Ribeiro and Thomas B. Schön</td>
<td>Overparametrized regression under $\ell_2$ adversarial attacks</td>
<td>In Workshop on the Theory of Overparametrized Machine Learning (TOPML), online, April, 2021.</td>
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[CA3] Christian A. Naesseth, Fredrik Lindsten and Thomas B. Schön. **Sequential Monte Carlo to estimate the partition function of rectangular graphical models.** In *Second Bayesian Young Statisticians Meeting (BAYSM)*, Vienna, Austria, September, 2014.

Thomas B. Schön. **Fusion of data from different sources.** In *Proceedings of the 10th International Symposium on 3D Analysis of Human Movement (3DMA)*, Invited plenary lecture (the H. J. Woltring lecture), Santpoort-Amsterdam, The Netherlands, October 2008.

Technical reports not published elsewhere


**Theses**

