

## List of publications Kalle Åström

Publication list extracted from Mathematical Imaging Group on 2013-08-24

<http://www.maths.lth.se/vision/publications/>.

Citation counts from Google Scholar at 2013-08-24.

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Publication summary:

Refereed journal and conference publications: 128.

Citation summary:

Citations: 2157.

h-index: 23.

i10-index: 52.

Top five citations: 245, 201, 95, 77, 74.

### Journal Papers

[J1] Ardö, Håkan and Åström, Kalle, “Bayesian Formulation of Image Patch Matching Using Cross-correlation,” *Journal of Mathematical Imaging and Vision*, vol. 43, no. 1, pp. 72–87, 2012.

[J2] Enqvist, Olof and Kahl, Fredrik and Olsson, Carl and Åström, Kalle, “Global Optimization for One-Dimensional Structure and Motion Problems,” *SIAM Journal of Imaging Science*, vol. 3, no. 4, 2010. Citation count: 1.

[J3] Byröd, Martin and Josephson, Klas and Åström, Kalle, “Fast and Stable Polynomial Equation Solving and Its Application to Computer Vision,” *International Journal of Computer Vision*, vol. 84, no. 3, pp. 237–, 2009. Citation count: 23.

[J4] Laureshyn, Aliaksei and Åström, Kalle and Brundell-Freij, Karin, “From Speed Profile Data to Analysis of Behaviour,” *IATSS Research*, vol. 33, no. 2, pp. 88-98, 2009. Citation count: 1.

[J5] Kukulova, Zuzana and Byröd, Martin and Josephson, Klas and Pajdla, Tomas and Åström, Kalle, “Fast and Robust Numerical Solutions to Minimal Problems for Cameras with Radial Distortion,” *Computer Vision and Image Understanding*, 2008. Citation count: 35.

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[J10] Åström, Kalle and Kahl, Fredrik, “Ambiguous Configurations for the 1D Structure and Motion Problem,” *Journal of Mathematical Imaging and Vision*, vol. 18, no. 2, pp. 191–203, 2003. Citation count: 8.

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- [J14] Berthilsson, Rikard and Åström, Kalle and Heyden, Anders, “Reconstruction of Curves in  $R^3$  using Factorization and Bundle Adjustment,” *Int. Journal of Computer Vision*, vol. 41, no. 3, pp. 171–182, 2001. Citation count: 19.
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### Conference papers with peer-review

[C1] Kuang, Yubin and Burgess, Simon and Torstensson, Anna and Åström, Kalle, “A Complete Characterization and Solution to the Microphone Position Self-Calibration Problem,” *The 38th International Conference on Acoustics, Speech, and Signal Processing*, 2013. Citation count: 1.

[C2] Simayijiang, Zhayida and Backman, Sofia and Ulén, Johannes and Wikström, Sverre and Åström, Kalle, “Exploratory study of EEG burst characteristics in preterm infants,” *35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, 2013.

[C3] Jiang, Fangyuan and Enqvist, Olof and Kahl, Fredrik and Åström, Kalle, “Improved Object Detection and Pose Using Part-Based Models,” *Scandinavian Conference on Image Analysis*, 2013. Citation count: 0.

[C4] Ask, Erik and Burgess, Simon and Åström, Kalle, “Minimal Structure and Motion Problems for TOA and TDOA Measurements with Collinearity Constraints,” *Proceedings of the 2nd International Conference on Pattern Recognition Applications*, 2013.

[C5] Kuang, Yubin and Åström, Kalle and Tufvesson, Fredrik, “Single Antenna Anchor-Free UWB Positioning based on Multipath Propagation,” *IEEE International Conference on Communications*, 2013.

[C6] Kuang, Yubin and Åström, Kalle, “Stratified Sensor Network Self-Calibration From TDOA Measurements,” *21st European Signal Processing Conference 2013*, 2013.

[C7] Jiang, Fangyuan and Kuang, Yubin and Åström, Kalle, “Time Delay Estimation for TDOA Self-Calibration using Truncated Nuclear Norm,” *The 38th International Conference on Acoustics, Speech, and Signal Processing*, 2013.

[C8] Burgess, Simon and Kuang, Yubin and Åström, Kalle, “TOA Sensor Network Calibration for Receiver and Transmitter Spaces with Difference in Dimension,” *Proceeding of the 21st European Signal Processing Conference 2013*, 2013.

[C9] Ask, Erik and Kuang, Yubin and Åström, Kalle, “Exploiting p-Fold Symmetries for Faster Polynomial Equation Solving,” *Proceedings of the 21st International Conference on Pattern Recognition*, 2012. Citation count: 0.

[C10] Källén, Hanna and Heyden, Anders and Åström, Kalle and Lindh, Per, “Measurement of Bitumen Coverage of Stones for Road Building, Based on Digital Image Analysis,” *IEEE Workshop on Applications of Computer Vision, WACV 2012, Breckenridge, CO, USA, January 9-11, 2012*, pp. 337-344, 2012. Citation count: 0.

[C11] Burgess, Simon and Kuang, Yubin and Åström, Kalle, “Node Localization in Unsynchronized Time of Arrival Sensor Networks,” *Proceedings of the 21st International Conference on Pattern Recognition*, 2012. Citation count: 3.

[C12] Kuang, Yubin and Åström, Kalle, “Numerically Stable Optimization of Polynomial Solvers for Minimal Problems,” *Lecture Notes in Computer Science*, pp. 100–113, 2012. Citation count: 0.

[C13] Burgess, Simon and Kuang, Yubin and Åström, Kalle, “Pose Estimation from Minimal Dual-Receiver Configurations,” *Proceedings of the 21st International Conference on Pattern Recognition*, 2012. Citation count: 0.

[C14] Enqvist, Olof and Ask, Erik and Kahl, Fredrik and Åström, Kalle, “Robust Fitting for Multiple View Geometry,” *Lecture Notes in Computer Science*, pp. 738–751, 2012. Citation count:

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- [C15] Kuang, Yubin and Ask, Erik and Burgess, Simon and Åström, Kalle, “Understanding TOA and TDOA Network Calibration using Far Field Approximation as Initial Estimate,” *International Conference on Pattern Recognition Applications and Methods*, 2012. Citation count: 4.
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- [C19] Byröd, Martin and Åström, Kalle, “Conjugate Gradient Bundle Adjustment,” *European Conference on Computer Vision*, 2010. Citation count: 21.
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