

List of publications, Kalle Åström

Publication pattern: Within mathematics it is quite uncommon with more than one or two authors per paper. In cases where a PhD student publishes and his supervisor has only made minor contributions to a paper it is only the student who is considered the author. Many of the publications below follow this pattern. Some of the papers are written with researchers that have a different publication pattern, e.g. within medicine, where papers with 5-10 authors is not uncommon.

My main research is oriented towards computer vision, where one typically publish early findings in short conference papers (6-10 pages). Some of these conferences are quite competitive (10-20 percent acceptance rates) and are typically reviewed in a double blind review process. Such a paper typically forms the backbone of a longer version (10-20 pages) in a journal. Such journal papers typically include a more thorough investigation and with more experimental validation.

Papers in international journals

- [1] Zuzana Kukelova, Marin Byröd, Klas Josephsson, Tomas Pajdla, Kalle Åström: Fast and Robust Numerical Solutions to Minimal Problems for Cameras with Radial Distortion Computer Vision and Image Understanding, Vol. 114, No. 2, pp. 234-244, 2010.
- [2] Marin Byröd, Klas Josephsson, Kalle Åström: Fast and Stable Polynomial Equation Solving and Its Application to Computer Vision International Journal of Computer Vision, Vol. 84, No. 3, pp. 237-255, 2009.
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- [4] Karin M Henriksson, Karin Wickstrom, Nils Maltesson, Anders Ericsson, Johan Karlsson, Finn Lindgren, Kalle Astrom, Thomas F McNeil, Ingrid Agartz: A pilot study of facial, cranial, and brain MRI morphometry in men with schizophrenia, Psychiatry Research: Neuroimaging, in press.
- [5] Lomsky, M., Richter, J., Johansson, L., El-Ali, H., Åström, K., Ljungberg, M., Edenbrandt, L.: A new automated method for analysis of gated-SPECT images based on a 3-dimensional heart shaped model. Clinical Physiology and Functional Imaging, in press, 2005.
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- [12] Holger Holst, Karl Åström, Andreas Järund, John Palmer, Anders Heyden, Fredrik Kahl, Kristina Tägil, Eva Evander, Gunnar Sparr, Lars Edenbrandt: Automated Interpretation of Ventilation-Perfusion Lung Scintigrams for the Diagnosis of Pulmonary Embolism using Artificial Neural Networks European Journal of Nuclear Medicine, 27(4) pp. 400–406, 2000.

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Contributions to Books

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Miscellaneous

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Patents

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Works presenting science etc, research directed to the public (or non-experts)

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