

Publications, Nov-09, Maria Axelsson, PhD

Thesis

Maria Axelsson

Image Analysis for Volumetric Characterisation of Microstructure

Doctoral diss. Centre for Image Analysis, SLU. Acta Universitatis agriculturae Sueciae vol. 2009:19.

Journal publications

Maria Axelsson, Stina Svensson

3D pore structure characterisation of paper

Pattern Analysis and Applications, 2009

Gary Chinga-Carrasco, **Maria Axelsson**, Øyvind Eriksen, Stina Svensson

Structural characteristics of pore networks affecting print-through

Journal of Pulp and Paper Science, Vol 34(1), 2008

Maria Axelsson, Catherine Östlund, Hannes Vomhoff, Stina Svensson

Estimation of the pore volume at the interface between paper web and press felt

Nordic Pulp and Paper Research Journal, Vol 21(3), 2006

Ida-Maria Sintorn, Stina Svensson, **Maria Axelsson**, Gunilla Borgefors

Segmentation of individual pores in 3D paper images

Nordic Pulp and Paper Research Journal, Vol 20(3), 2005

Peer reviewed conference proceedings

Maria Axelsson

An evaluation of scale and noise sensitivity of fibre orientation estimation in volume images

In proceedings of 15th International Conference on Image Analysis and Processing (ICIAP), 2009

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Estimating 3D Fibre Orientation in Volume Images

In proceedings of 19th International Conference on Pattern Recognition (ICPR), 2008

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3D Tracking of Cellulose Fibres in Volume Images

In proceedings of 2007 IEEE International Conference on Image Processing (ICIP), Volume 4, pg. IV-309, 2007

Maria Axelsson, Stina Svensson, Gunilla Borgefors
Reduction of Ring Artifacts in High Resolution X-Ray Microtomography Images
In K. Franke et al. (Eds.): DAGM 2006, LNCS 4174, pp. 61-70, 2006

Conference proceedings

Maria Axelsson
Tracking Tubular Structures in Volume Image Data
Proceedings SSBA 2008, Symposium on image analysis, Lund, 2008

Maria Axelsson, Stina Svensson, Gunilla Borgefors
2D Ring Artifact Reduction of X-ray Tomography Images
Proceedings SSBA 2007, Symposium on image analysis, Linköping, 2007

Maria Axelsson, Gary Chinga, Stina Svensson, Per Nygård, Filip Malmberg, Olav Solheim, Joakim Lindblad, Gunilla Borgefors
Detailed quantification of the 3D structure of newsprints in X-ray synchrotron radiation microtomography images
Progress in Paper Physics Seminar, Oxford, Ohio, 2006

Karin Bogren, Kristofer Gamstedt, Fredrik Berthold, Mikael Lindström, Per Nygård, Filip Malmberg, Joakim Lindblad, **Maria Axelsson**, Stina Svensson, Gunilla Borgefors
Stress transfer and failure in pulpfibre reinforced composites: Effects of microstructure characterized by Xray microtomography
Progress in Paper Physics Seminar, Oxford, Ohio, 2006

Per Nygård, Per Gradin, Øyvind Gregersen, Joakim Lindblad, **Maria Axelsson**, Stina Svensson, Filip Malmberg, Gunilla Borgefors
Damage Mechanisms in Paper
Progress in Paper Physics Seminar, Oxford, Ohio, 2006

Maria Axelsson, Catherine Östlund, Hannes Vomhoff, Stina Svensson
Volume estimation of the interface pores between paper web and press felt
Proceedings SSBA 2006, Symposium on image analysis, Umeå, 2006

Maria Axelsson, Ida-Maria Sintorn, Stina Svensson, Gunilla Borgefors
Individual pore segmentation in 3D volumes of fibrous materials
Proceedings SSBA 2005, Symposium on image analysis, Malmö, 2005

Technical reports

Internal report, STFI-Packforsk, 2005

Master's Thesis

Maria Axelsson

*Automatic segmentation and volume measurement of the hippocampus
using trainable filters and a PCA model*

Department of Biomedical Engineering, Linköping university, LiU-IMT-EX-344,
2003