



SVENSKA
SÄLLSKAPET
FÖR
AUTOMATISERAD
BILDANALYS

SWEDISH
SOCIETY
FOR
AUTOMATED
IMAGE ANALYSIS

MEMBER OF THE
INTERNATIONAL
ASSOCIATION FOR
PATTERN
RECOGNITION



DETAILED PROGRAMME SSBA2009, March 19-20, 2009

Session 1: Image Segmentation, 10.00 - 12.00, Malcussalen

Session chair: Yaregal Assabie, Halmstad university

Level Set Based Segmentation Using Gradient Descent with Momentum

Gunnar Låthen, Thord Andersson, Reiner Lenz and Magnus Borga, Linköping university

Measuring Distribution of Lignin in Wood Fibre Cross-Sections

Bettina Selig, Cris L. Luengo Hendriks and Gunilla Borgefors, Swedish university of Agricultural Science

Optimal Levels for the Two-phase, Piecewise Constant Mumford-Shah Functional

Petter Strandmark, Fredrik Kahl and Niels Chr. Overgaard, Lund university

Detecting Virus-like Particles Using Transmission Electron Microscopy

Gustaf Kylberg and Ida-Maria Sintorn, Centre for Image Analysis, Uppsala and Vironova AB, Nacka

Interactive Segmentation with Relaxed Image Foresting Transforms

Filip Malmberg and Ingela Nyström, Uppsala university

Plenary talk by Lucas van Vliet, 13.30 - 14.30, Malcussalen

Faculty of Applied Sciences, Delft university, The netherlands

Session 2: Feature Extraction I, 14.30 - 15.30, Malcussalen

Session chair: Fredrik Larsson, Linköping university

Spatio-Featural Scale-Space

Michael Felsberg, Linköping university

Curve Closing by Gradient Weighted Distance Transformation Applied in Automated Cervical Cancer Screening

Patrik Malm and Anders Brun, Centre for Image Analysis, Uppsala university

Classification of Multivariate Medical Datasets Using Deformable Models - A Work in Progress

Daniel Forsberg, Mats Andersson and Hans Knutsson, Linköping university and Sectra Imtec AB Linköping

Session 3: Image Retrieval, 14.30 - 15.30, Wigforssalen

Session chair: Carl Olsson, Lund university

Wyner-Ziv Coding for Large-Scale Face Image Retrieval

Jean-Paul Kouma and Haibo Li, Umeå university

Color Image Retrieval with Bags-of-Emotions

Martin Solli, Linköping university

A Comprehensive Dataset for Ethiopic Handwriting Recognition

Yaregal Assabie and Josef Bigun, Halmstad university

Session 4: Face Image Processing, 16.00 - 17.00, Malcussalen

Session chair: Martin Byröd, Lund university

Detection, Tracking and Reidentification of Persons in Video Sequences

Joakim Rydell and Fredrik Hemström, Swedish Defence Research Agency (FOI), Linköping

Evaluation Protocol for the DXM2VTS Database and Performance Comparison of Face Detection and Face Tracking on Video

Dereje Teferi and Josef Bigun, Halmstad university

A Simple Single-Camera Gaze Tracker using Infrared Illumination

Marcus Wallenberg, Linköping university

Session 5: Histogram and Pixel Based Processing, 16.00 - 17.00, Wigforssalen

Session chair: Filip Malmberg, Uppsala university

Signal Detection in 3D by Stable Wave Signal Verification

Amin Allalou and Carolina Wählby, Uppsala university

Interaction Design for “Digital Djurpark”

Karin Fahlquist, Umeå university

Dimensionality Reduction for Colour Based Pixel Classification

Milan Gavrilovic, Carolina Wählby, Joakim Lindblad and Ewert Bengtsson, Uppsala university and Swedish university of agricultural sciences

SSBA Annual Meeting, 17.00 - 18.00, Wigforssalen

Session 6: Motion and Correspondence, 8.30 - 10.00, Malcussalen

Session chair: Dereje Teferi, Halmstad university

Fast and Accurate Ego-Motion Estimation

Johan Hedborg and Per-Erik Forssen, Linköping university

A Parameter Estimation Based Approach to S&M Estimation

Ola Dahl and Anders Heyden, Malmö University and Lund university

Indoor Photorealistic 3D Mapping Using Stereo Images from SLR Cameras

Viktor Kolbe, Folke Isaksson, Thomas Beckman and Thomas B. Schön, C3 Technologies, Saab Bofors Dynamics and Linköping university

Optical Flow Computation on CUDA

Erik Ringaby, Linköping university

Session 7: Graph-based Processing, 8.30 - 10.00, Wigforssalen

Session chair: Khalid Niazi, Uppsala university

Continuous α -Expansion Moves

Carl Olsson, Martin Byröd, Niels Chr. Overgaard and Fredrik Kahl, Lund university

Offline Handwritten Amharic Word Recognition Using HMMs

Yaregal Assabie and Josef Bigun, Halmstad university

Anisotropic Metrics for Continuous Graph Cuts

Carl Olsson, Martin Byröd, Niels Chr. Overgaard and Fredrik Kahl, Lund university

Correspondence from Pairwise Constraints

Olof Enqvist, Klas Josephson and Fredrik Kahl, Lund university

Session 8: 3D Image Analysis, 10.30 - 12.00, Malcussalen

Session chair: Bettina Selig

Balancing an Inverted Pendulum by Thinking A Real-Time fMRI Approach

Anders Eklund, Henrik Ohlsson, Mats Andersson, Joakim Rydell, Anders Ynnerman and Hans Knutsson, Linköping university

Internal Textile Fabric Structure Analysis Using 3D X-ray μ CT Volumetric Data

Cristofer Englund and Lars Martinsson, Albany International AB

Octahedral Filters for 3D Image Processing

Reiner Lenz, Linköping university

Closing Pores and Segmenting Individual Fibres in 3D Images of Wood Fibre Composites Using Curvature Information and Graph Cuts

Erik L.G Wernersson, Anders Brun and Cris L Luengo Hendriks, Centre for Image Analysis, Uppsala

Session 9: Feature Extraction II, 10.30 - 11.10, Wigforssalen

Session chair: Gunnar Låthen, Linköping university

Using Fourier Descriptors for Local Region Matching

Fredrik Larsson, Per-Erik Forssen and Michael Felsberg, Linköping university

2D Loglets Filtering Image Enhancement

Qaiser Mahmood, Mats Andersson and Hans Knutsson, Linköping university

Pyramid Based Interpolation for Face-Video Playback in Audio Visual Recognition

Dereje Teferi and Josef Bigun, Halmstad university