2nd IEEE Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NORDIA)

Organizers: Alexander Bronstein, Michael Bronstein, Guillermo Sapiro
Date: Sunday, September 27, 2009, 9:30-18:30

Shape similarity and retrieval
Spectral Gromov-wasserstein Distances for Shape Matching
Facundo Mémoli
Efficient Retrieval of Deformable Shape Classes Using Local Self-similarities
Ken Chatfield, James Philbin, Andrew Zisserman

Inverse problems
On Reconstruction of Non-rigid Shapes with Intrinsic Regularization
Yohai S. Devir, Guy Rosman, Alexander M. Bronstein, Michael M. Bronstein, Ron Kimmel
Detailed Body Shapes from Flash Photographs
Yusuke Yoshiyasu, Nobutoshi Yamazaki

Deformable shapes and image alignment
Probabilistic Constrained Adaptive Local Displacement Experts
Jason M. Saragih, Simon Lucey, Jeffrey F. Cohn
Markov Chain Monte Carlo Shape Sampling Using Level Sets
Siqi Chen, Richard J. Radke
Fast Nonrigid Mesh Registration with a Data-driven Deformation Prior
David C. Schneider, Peter Eisert
Non-rigid Registration between Color Channels Based on Joint-histogram Entropy in Subspace
Masao Shimizu, Rafael H. C. de Souza, Shin Yoshimura, Masatoshi Okutomi

Poster session
Shape Google: A Computer Vision Approach to Isometry Invariant Shape Retrieval
Maks Ovsjanikov, Alexander M. Bronstein, Michael M. Bronstein, Leonidas J. Guibas
Learning Shape Metrics Based on Deformations and Transport
Guillaume Charpiat
Unsupervised Learning of Human Body Parts from Video Footage
Thomas Wältner, Rolf P. Würtz
Learning Varying Dimension Radial Basis Functions for Deformable Image Alignment
Di Yang, Hongdong Li
Uncalibrated Non-rigid Factorisation with Automatic Shape Basis Selection
Sami S. Brandt, Pekka Koskenkorva, Juho Kannala, Anders Heyden
Integrating Contour and Skeleton for Shape Classification
Xiang Bai, Wenyu Liu, Zhuowen Tu
Online Active Feature Model for Lip Tracking
Quoc Dinh Nguyen, Maurice Milgram
Effective and Efficient Interpolation for Mutual Information Based Multimodality Elastic Image Registration  
_Edoardo Ardizzone, Roberto Gallea, Orazio Gambino, Roberto Pirrone_

Bending Invariant Meshes and Application to Groupwise Correspondences  
_Stefanie Wuhrer, Chang Shu, Jonathan Boisvert, Guy Godin_

Joint Estimation of Deformable Motion and Photometric Parameters in Single View Video  
_Anna Hilsmann, Peter Eisert_

A Phase Field Higher-order Active Contour Model of Directed Networks  
_Aymen El Ghoul, Ian H. Jermyn, Josiane Zerubia_