IEEE International Workshop on Machine Learning for Vision-based Motion Analysis (MLVMA09)

Organizers: Matti Pietikäinen, Liang Wang, Li Cheng, Guoying Zhao
Date: Monday, September 28, 2009, 9:30-17:20

S2: Motion Estimation
Combining Discriminative Appearance and Segmentation Cues for Articulated Human Pose Estimation
Sam Johnson, Mark Everingham
Two-layer Generative Models for Estimating Unknown Gait Kinematics
Xin Zhang, Guoliang Fan, Li-Shan Chou

S3: Learning Methods
Fitting Parametric Road Models to Spatio-temporal Derivatives
Manfred Georg, Robert Pless
On-line Learning of the Transition Model for Recursive Bayesian Estimation
Samuele Salti, Luigi Di Stefano
Sparse Learning Approach to the Problem of Robust Estimation of Camera Locations
Arnak Dalalyan, Renaud Keriven

S4: Motion tracking
Learning Mixed-state Markov Models for Statistical Motion Texture Tracking
T. Crivelli, P. Bouthemy, B. Cernuschi-Frias, J.-F. Yao
H-APF: Using Hierarchical Representation of Human Body for 3-D Articulated Tracking and Action Classification
Leonid Raskin, Michael Rudzsky, Ehud Rivlin

S5: Segmentation
An Improved Local Descriptor and Threshold Learning for Unsupervised Dynamic Texture Segmentation
Jie Chen, Guoying Zhao, Matti Pietikäinen
Randomized Algorithm of Spectral Clustering and Image/Video Segmentation Using a Minority of Pixels
Tomoya Sakai, Atsushi Imiya

S6: Action recognition
Supervised Neighborhood Topology Learning for Human Action Recognition
Jinhua Ma, Pong C Yuen, Weiwen Zou, Jian-Huang Lai
Human Action Recognition from a Single Clip per Action
Weilong Yang, Yang Wang, Greg Mori
Evaluation of Threshold Model HMMs and Conditional Random Fields for Recognition of Spatiotemporal Gestures in Sign Language
Daniel Kelly, John Mc Donald, Charles Markham
Action Exemplar Based Real-time Action Detection

Sang-Hack Jung, Yanlin Guo, Harpreet Sawhney, Rakesh Kumar