1st IEEE Workshop on Video-Oriented Object and Event Classification

Organizers: Shuicheng Yan, Qingshan Liu, Changsheng Xu
Date: Monday, September 28, 2009, 9:30-17:15

Session 1: Action Recognition
Effective Codebooks for Human Action Categorization
Lamberto Ballan, Marco Bertini, Alberto Del Bimbo, Lorenzo Seidenari, Giuseppe Serra
Trajectons: Action Recognition Through the Motion Analysis of Tracked Features
Pyry Matikainen, Martial Hebert, Rahul Sukthankar
Human Action Detection by Boosting Efficient Motion Features
Ming Yang, Fengjun Lv, Wei Xu, Kai Yu, Yihong Gong
Action Recognition Using Randomised Ferns
Olusegun Oshin, Andrew Gilbert, John Illingworth, Richard Bowden
Boosted Exemplar Learning for Human Action Recognition
Tianzhu Zhang, Jing Liu, Si Liu, Yi Ouyang, Hanqing Lu
Efficient Human Action Recognition by Cascaded Linear Classification
Peter M. Roth, Thomas Mauthner, Inayatullah Khan, Horst Bischof
Event Detection and Semantic Identification Using Bayesian Belief Network
Maheshkumar H. Kolekar, K. Palaniappan, S. Sengupta, G. Seetharaman
ICA Mixture Hidden Conditional Random Field Model for Sports Event Classification
Xiaofeng Wang, Xiao-Ping Zhang

Session 2: Applications
Video-based Raindrop Detection for Improved Image Registration
Martin Roser, Andreas Geiger
Automatic Identification of Fusion Events in TIRF Microscopy Image Sequences
Katarina Mele, Adelle Coster, James G. Burchfield, Jamie Lopez, David E. James, William E. Hughes, Pascal Vallotton
Workflow Monitoring Based on 3D Motion Features
N. Padoy, D. Mateus, D. Weinland, M-O. Berger, N. Navab
Acquiring 3D Motion Trajectories of Large Numbers of Swarming Animals
Hai Shan Wu, Qi Zhao, Danping Zou, Yan Qiu Chen
Quantitative Comparison of Metrics for Change Detection in Video Patrolling Applications
B. Soibam, S. K. Shah, A. Chaudhry, J. Eledath

Session 3: Object and Scene Analysis
Transfer Pedestrian Detector Towards View-adaptiveness and Efficiency
Junbiao Pang, Qingming Huang, Shuqiang Jiang, Zhipeng Wu
Feature-Cut: Video Object Segmentation Through Local Feature Correspondences
Dan Ring, Anil Kokaram
Semantic Segmentation of Street Scenes by Superpixel Co-occurrence and 3D Geometry
Branislav Mičušik, Jana Košecká
(Multiscale) Local Phase Quantisation Histogram Discriminant Analysis with Score Normalisation for Robust Face Recognition

*Chi Ho Chan, Josef Kittler, Norman Poh, Timo Ahonen, Matti Pietikäinen*