

IEEE

Winter Vision Meetings

Pocket Guide

January 16-18, 2013

Sheraton Clearwater Beach Hotel
Clearwater Beach, Florida



Wednesday, January 16

0845–0900 Welcome and Introduction

- Gregor Miller, University of British Columbia (General Chair)

0900–0945: Session 1

Chair – TBA

Location - TBD

- Applying Force Fields to Black-Box GUIs Using Computer Vision, *Florian van de Camp, Fraunhofer IOSB, Rainer Stiefelhagen, Karlsruhe Institute of Technology*
- User-Guided Pedestrian and Object Removal, *Antonio Haro, Nokia*
- Speeding up Scientific Imaging Workflows: Design of Automated Image Annotation Tool, *Dirk Colbry, Michigan State University, Fred Dyer, Michigan State University, Ian Dworkin, Michigan State University, Yang Wang, Michigan State University, Lifeng Wang, Michigan State University*

0945–1015: Coffee Break

1015–1100: Plenary (Location – TBD)

- Dong Ping Zhang, AMD Inc.

1100–1230: Session 2

Chair – TBA

Location - TBD

- How Interaction Methods Affect Image Segmentation: User Experience in the Task, *Ramya Hebbalaguppe, Dublin City University, Kevin McGuinness, Dublin City University, Jogile Kuklyte, Dublin City University, Graham Healy, Dublin City University, Noel O'Connor, Dublin City University, Alan Smeaton, Dublin City University*

- Multi-User Natural Interaction with Sensor on Activity, *Shamsuddin N. Ladha, Indian Institute of Technology, Bombay - Monash Research Academy, Kate Smith-Miles, Monash University, Sharat Chandran, Indian Institute of Technology Bombay*
- Developer-Friendly Segmentation using OpenVL, a High-Level Task-Based Abstraction, *Gregor Miller, University of British Columbia, Daesik Jang, Kunsan National University, Sidney Fels, University of British Columbia*
- A Novel Blink Detection System for User Monitoring, *Jaikrishna Mohanakrishnan, Fujitsu Laboratories Ltd, Satoshi Nakashima, Fujitsu Laboratories Ltd, Junichi Odagiri, Fujitsu Laboratories Ltd, Shanshan Yu, Fujitsu Laboratories Ltd*
- Augmenting Physical Books Towards Education Enhancement, *George Margetis, FORTH-ICS, Antonios Ntelidakis, FORTH-ICS, Xenophon Zabulis, FORTH-ICS, Stavroula Ntoa, FORTH-ICS, Panagiotis Koutlemanis, FORTH-ICS, Constantine Stephanidis, FORTH-ICS*
- Democratizing 3D Dynamic Gestures Recognition, *Maurizio Caon, HEFR / University of Bedfordshire, Yong Yue, University of Bedfordshire, Julien Tscherrig, HEFR, Omar Abou Khaled, HEFR, Elena Mugellini, HEFR*

1220–1230: Closing Remarks

- Gregor Miller, University of British Columbia (General Chair)

1230–1330: Lunch

1300–1700: Tutorial: Iris Recognition: Fundamentals to Research Frontiers

Location – Gulf room

- Kevin W. Bowyer, University of Notre Dame (General Chair)

Latest information about the WVM 13 can be found from the link below

<http://cvl.cse.sc.edu/wvm2013/>

Wednesday, January 16

0700–0800 Breakfast

0800–0940 Oral Session 1

Chair – TBA

Location - TBD

1. A Compositional Approach for 3D Arm-Hand Action Recognition, *Ilaria Gori, Sean Ryan Fanello, Francesca Odone, and Giorgio Metta*
2. Subspace and Motion Segmentation via Local Subspace Estimation, *Ali Sekmen and Akram Aldroubi*
3. Meal Support System with Spoon Using Laser Range Finder and Manipulator, *Yutaro Ohshima, Yuichi Kobayashi, Toru Kaneko, Atsushi Yamashita and Hajime Asama.*
4. Design of Microassembly System and Research on Coarse-to-Fine Alignment Strategy in combination with Active Zooming, *Zhengtao Zhang, Juan Zhang and De Xu*
5. Panorama Creation Using a Team of Robots, *Yongqiang Huang and Wesley Snyder*

0940–1015: Break

1015–1100: Plenary (Location – TBD)

- Dong Ping Zhang, AMD Inc.

1100–1220 Oral Session 2

Chair – TBA

Location - TBD

1. Sensitivity Evaluation of Embedded Code Detection in Imperceptible Structured Light Sensing, *Jingwen Dai and Ronald Chung*
2. Quasi-perspective stereo-motion for 3D reconstruction, *Mu Fang and Chi-Kit Ronald Chung*
3. Calibration of a Network of Kinect Sensors for Robotic Inspection over a Large Workspace, *Rizwan Macknojia, Alberto Chávez-Aragón, Pierre Payeur and Robert Laganière*

4. Why Would I Want a Gyroscope on my RGB-D Sensor?
Hannes Ovrén, Per-Erik Forssén, and David Törnqvist

1220–1330: Lunch

1330–1430: Two Invited Talks

1430–1510 Session 3

Chair – TBA

Location - TBD

1. Detecting Partially Occluded Objects via Segmentation and Validation, *Martin Levihn, Matthew Dutton, Alexander Trevor, and Mike Stilman*
2. Clustering of Image Features Based on Contact and Occlusion among Robot Body and Objects, *Takayuki Somei, Yuichi Kobayashi, Akinobu Shimizu and Toru Kaneko*

Thursday, January 17

0700–0800 Breakfast

0800–0940 Oral Session 4

Chair – TBA

Location - TBD

1. Autonomous Navigation and Sign Detector Learning, *Liam Ellis, Nicolas Pugeault, Kristoffer Ojfall, Johan Hedborg, Richard Bowden and Michael Felsberg*
2. Spatial Structure Analysis for Autonomous Robotic Vision Systems, *Kai Zhou, Karthik Mahesh Varadarajan, Michael Zillich and Markus Vincze*
3. Automated Tuning of the Nonlinear Complementary Filter for an Attitude Heading Reference Observer, *Oscar De Silva and George K.I. Mann*
4. Moving Pedestrian Detection Based on Motion Segmentation, *Shanshan Zhang, Christian Bauckhage, Dominik A. Klein and Armin B. Cremers*
5. Monocular Visual Odometry From Frame to Frame Intensity Differences for Planetary Exploration Mobile Robots, *Geovanni Martinez*

0940–1015: Break

1015–1100: Plenary (Location – TBD)

- Larry Matthies, JPL

1100–1230 Poster teaser

1230–1330: Lunch

1230–1530: Poster Session

Thursday, January 17

0700–0800 Breakfast

0800–0810 Intro by chairs

0810–0945 Short Oral Session 1

Chair – TBA

Location - TBD

Oral Papers (5 min. each with no questions)

1. 3D Free Form Object Recognition using Rotational Projection Statistics, *Yulan Guo, National University of Defense Technology; Mohammed Bennamoun, Ferdous Sohel, The University of Western Australia; Jianwei Wan, National University of Defense Technology; Min Lu, National University of Defense Technology*
2. Are You Using the Right Approximate Nearest Neighbor Algorithm? *Stephen O'Hara, Colorado State University; Bruce Draper, Colorado State University*
3. Large-scale Web Video Event Classification by use of Fisher Vectors, *Chen Sun, University of Southern California*
4. Nonuniform Image Patch Exemplars for Low Level Vision, *Vincent De Smet, KU Leuven; Vinay Nambodiri, Alcatel-Lucent Bell Labs, Antwerp, Belgium; Luc Van Gool, KU Leuven*
5. Towards a Practical PTZ Face Detection and Tracking System, *Yinghao Cai, USC; Gerard Medioni*
6. Separation of Specular-Diffuse Reflection Components in the HSI Color Space, *Yang Jianwei, CBSR&NLPR*
7. Image segmentation for large-scale subcategory flower recognition, *Anelia Angelova, NEC Labs America; Shenghuo Zhu, Yuanqing Lin*
8. Heteroscedastic Probabilistic Linear Discriminant Analysis for Manifold Learning in Video-Based Face Recognition, *Moh Wibowo, QUT Brisbane Australia; Dian Tjondronegoro, QUT Brisbane Australia; Ligang Zhang, QUT Brisbane Australia; Ivan Himawan, QUT*
9. MHAD: A Comprehensive Multimodal Human Action Database, *Ferda Ofli, UC Berkeley; Rizwan Chaudhry, Johns Hopkins University; Gregorij Kurillo, UC Berkeley; Rene Vidal, Johns Hopkins University; Ruzena Bajcsy, UC Berkeley*
10. Human Behavior Segmentation and Recognition using Continuous Linear Dynamic System, *Jinjun Wang, Epsom; Jing Xiao, Epsom Research and Development*
11. Statistical Angular Error-Based Triangulation for Efficient and Accurate Multi-View Scene Reconstruction, *Shawn Recker, University of California Davis; Mauricio Hess-Flores, UC Davis; Ken Joy, University of California Davis*
12. Automatic Region-of-Interest Detection and Prioritisation for Visually Optimised Coding of Low Bit Rate Videos, *Ivan Himawan, QUT; Wei Song, QUT; Dian Tjondronegoro, QUT*
13. Clustering of video-patches on Grassmannian manifold for facial expression recognition from 3D videos, *Munawar Hayat, UWA; Mohammed Bennamoun, The University of Western Australia; Amar A. El-Sallam, UWA*
14. Automatic Identification of Exudates in Retinal Images, *Flavio Henrique Araujo, Universidade federal do Piau; Andre Santana, Universidade federal do Piau; Rodrigo Veras, Universidade federal do Piau; Romuere Silva, Universidade Federal do Piau; Kelson Romulo Aires, UFPI*
15. Classification of Human Epithelial Type 2 Cell Indirect Immunofluorescence Images via Codebook Based Descriptors, *Arnold Wiliem, National ICT Australia, NICTA; Yongkang Wong, NICTA; Conrad Sanderson, NICTA; Shaokang Chen, NICTA; Peter Hobson, Sullivan Nicolaides Pathology; Brian Lovell, University of Queensland*
16. Spatio-Temporal Covariance Descriptors for Action and Gesture Recognition, *Mehrdad Sanin, NICTA; Conrad Sanderson, NICTA; Mehrtash Harandi, NICTA; Brian Lovell, University of Queensland*
17. Relational Divergence Based Classification on Riemannian Manifolds, *Azadeh Alavi, NICTA; Mehrtash Harandi, NICTA; Conrad Sanderson, NICTA; Brian Lovell, University of Queensland*
18. Relative Ranking of Facial Attractiveness, *Hani Altwajiry, UCSD; Serge Belongie, UCSD*
19. Robust classification system with reliability prediction for semi-automatic traffic-sign inventory systems, *Lykele Hazelhoff, CycloMedia Technology B.V.; Ivo Creusen, Peter de With, Eindhoven University of Technology*

0945-1015 Coffe Break

1015-1100 Planery Talk (Location - TBD)

- Larry Matthies, JPL

1100-1230 Short Oral Session 2

Chair - TBA

Location - TBD

Oral Papers (5 min. each with no questions)

1. A Lip Extraction Algorithm Using Region-based ACM With Automatic Contour Initialization, *Chao Sui, UniversityOfWesternAustralia; Mohammed Bennamoun, ; Roberto Togneri, University of Western Australia; Serajul Haque, University of Western Australia*
2. Scene Image Categorization and Video Event Detection using Naive Bayes Nearest Neighbor, *Shiv Vitaladevuni, Raytheon BBN Technologies; Pradeep Natarajan, Raytheon BBN Technologies; Shuang Wu, Raytheon BBN Technologies; Rohit Prasad, Raytheon BBN Technologies; Premkumar Natarajan, Raytheon BBN Technologies*
3. Accurate Motion Deblurring using Camera Motion Tracking and Scene Depth, *HyeoungHo Bae, University of California, Irvi; Charless Fowlkes, UC Irvine; Pai Chou, UC Irvine*
4. DIRSAC: A Directed Sampling And Consensus Approach to Quasi-Degenerate Data Fitting, *Chris Baker, NREC; William Hoff, CSM*
5. Scallop Detection in Multiple Maritime Environments, *Matthew Dawkins, RPI/Kitware; Charles Stewart, RPI*
6. What is the Space of Spectral Sensitivity Functions for Digital Color Cameras? *JUN JIANG, Rochester Institute of Technol; Dengyu Liu, Rochester Institute of Technology; Jinwei Gu, Rochester Institute of Technology; Sabine Susstrunk, EPFL*
7. Robust Rank-4 Affine Factorization for Structure from Motion, *Guanghui Wang, University of Waterloo; John Zelek, University of Waterloo; Q.M. Jonathan Wu, University of Windsor; Ruzena Bajcsy, UC Berkeley*
8. Using Kinect for Face Recognition Under Varying Poses, Expressions, Illumination and Disguise, *Y.L. Billy Li, Curtin University; Ajmal Mian, University of Western Australia; Wanquan Liu, Curtin University; Aneesh Krishna, Curtin University*
9. Expanding gait identification methods from straight to curved trajectories, *Yumi Iwashita, Kyushu University; Koichi Ogawara, ; Ryo Kurazume*
10. Wildfire Smoke Detection Using SpatioTemporal Bag-of-Features of Smoke, *ByoungChul Ko, Keimyung University; Jun-Oh Park, Keimyung University; Jae-Yeal Nam, Keimyung University; SooYeong Kwak*
11. Animal Recognition in the Mojave Desert: Vision Tools for Field Biologists, *Michael Wilber, University of Colorado; Walter Scheirer, Securics, Inc.; Terry Boulton, University of Colorado at Colorado Springs*
12. Webcam2Satellite: Estimating Cloud Maps from Ground Sensors, *Calvin Murdock, WUSTL; Nathan Jacobs, University of Kentucky; Robert Pless, WUSTL*
13. A low cost 3D markerless system for the reconstruction of athletic techniques, *Amar A. El-Sallam, UWA; Mohammed Bennamoun, The University of Western Australia; Andrew Lyttle, Univ of Western Australia; Ferdous Sohel, Univ. of Western Australia; jacqueline Alderson, Univ of Western Australia*
14. HotSpotter - Species Independent Animal Instance Recognition, *Jonathan Crall, RPI; Charles Stewart, RPI; Tanya Berger-Wolf, University of Illinois; Daniel Rubenstein, Princeton University*
15. Reconstructing a Fragmented Face from a Cryptographic Identification Protocol, *Andy Luong, University of Texas at Austin; Michael Gerbush, Brent Waters, UT Austin; Kristen Grauman, UT Austin*
16. Periocular Biometric Recognition using Image Sets, *Muhammad Uzair, CSSE, UWA; Arif Mahmood, CSSE, UWA; Ajmal Mian, University of Western Australia; Chris McDonald, CSSE, UWA*
17. An Experimental Study of Pupil Constriction for Liveness Detection, *Xinyu Huang, North Carolina Central Univ.; Changpeng Ti, University of Kentucky; Alade Tokuta, North Carolina Central University; Ruigang Yang, University of Kentucky*

18. Automatic Content-Based Temporal Alignment of Image Sequences with Varying Spatio-Temporal Resolution, *Sam Ogden, Brigham Young University; Bryan Morse, Brigham Young University*

1230-1330 Lunch

1230-1500 Day 1 Poster Session

Friday, January 18

0700–0800 Breakfast

0805–0945 Short Oral Session 3

Chair – TBA

Location - TBD

Oral Papers (5 min. each with no questions)

1. Ridge Regression based Classifiers for Large Scale Class Imbalanced Datasets, *Devansh Arpit, Raytheon BBN Technologies; Shuang Wu, Raytheon BBN Technologies; Pradeep Natarajan, Raytheon BBN Technologies; Rohit Prasad, Raytheon BBN Technologies; Premkumar Natarajan, Raytheon BBN Technologies*
2. A Relational Kernel-based Approach to Scene Classification, *Laura Antanas, KUL; McElory Hoffmann, KUL; Paolo Frasconi, KUL; UNIFI; Tinne Tuytelaars, KUL; Luc De Raedt, KUL*
3. Person Re-identification using Semantic Color Names and RankBoost, *Cheng-Hao Kuo, Siemens Corporate Research; Sameh Khamis, University of Maryland; Vinay Shet, Siemens Corporate Research*
4. OpenVL: A Task-Based Abstraction for Developer-Friendly Computer Vision, *Gregor Miller, University of British Columbia; Sidney Fels, University of British Columbia*
5. Image Quality Quantification for Fingerprints Using Quality-Impairment Assessment, *Anurag Awasthi*, IIT Kanpur; Krithika Venkataramani, IIT Kanpur; Avani Nandini, IIT Kanpur*
6. Shape and Image Retrieval by Organizing Instances Using Population Cues, *Andrew Temyakov, University of South Carolina; Pahal Dalal, Jarrell Waggoner, ; Dhaval Salvi, ; Song Wang*
7. "RegionCut" - Interactive Multi-Label Segmentation Utilizing Cellular Automaton, *Björn Scheuermann, Inst. f. Informationsverarbeitung; Jakob Arndt, Bodo Rosenhahn*
8. A High Resolution 3D Tire and Footprint Impression Acquisition for Forensics Applications, *Ruwan Egoda Gamage, IUPUI; Abhishek Joshi, IUPUI; Jiang Zheng, IUPUI; Mihran Tuceryan, IUPUI*
9. Domain Adaptive Object Detection, *Fatemeh Mirrashed, University of Maryland; Larry Davis, University of Maryland; vlad Morariu, ; Behjat Siddiquie, Rogerio Feris*
10. A Weakly Supervised Approach for Object Detection Based on Soft-Label Boosting, *Weihong Wang, Nitional ICT Australia; Yang Wang, National ICT Australia; Fang Chen, National ICT Australia (NICTA); Arcot Sowmya, University of New South Wales*
11. Video Event Recognition Using Concept Attributes, *Jingen Liu, SRI International Sarnoff; Qian Yu, SRI International*
12. Single View Pose Estimation of Mobile Devices in Urban Environments, *Aaron Hallquist, UC Berkeley; Avideh Zakhor*
13. A Full-Spherical Device for Simultaneous Geometry and Reflectance Acquisition, *Johannes Koehler, DFKI GmbH; Tobias Nöll, Gerd Reis, Didier Stricker*
14. Depth SEEDS: Recovering Incomplete Depth Data using Superpixels, *Michael Van den Bergh, ETH Zurich; Luc Van Gool, ETH Zurich, KU Leuven*
15. Unwrapping the Eye for Visible-Spectrum Gaze Tracking on Wearable Devices, *Bernardo Pires, Carnegie Mellon University; Michael Devyver, Carnegie Mellon University; Akihiro Tsukada, Takeo Kanade, Carnegie Mellon University*
16. Semantic Tie Points, *Javier Montoya, ETHZ; Konrad Schindler, Christian Leistner*
17. Multi-Pose Multi-Target Tracking for Activity Understanding, *Hamid Izadinia,; Varun Ramakrishna, Kris Kitani, Carnegie Mellon University; Daniel Huber*
18. Estimation of Camera Pose with Respect to Terrestrial LiDAR Data, *Wei Guan, University of Southern Califor; Suyu You, University of Southern California*
19. Fusing appearance and geometric constrains for estimating the epipolar geometry, *Miguel Lourenço, ISR-UC; Nuno Gonçalves, ISR*
20. Illumination Invariant Mean-Shift Tracking, *Gargi Phadke, IIT,Bombay*

0945–1015 Coffe Break

1015–1100 Plenary Talk (Location – TBD)

- Robert Pless, Washington University

1100–1230 Short Oral Session 4

Chair - TBA

Location - TBD

Oral Papers (5 min. each with no questions)

1. Image to LIDAR Matching for Geotagging in Urban Environments, *Bogdan Matei, SRI International; Nicholas Vander Valk, SRI International; Zhiwei Zhu, SRI International; Hui Cheng, SRI International; Harpreet Sawhney, SRI International*
2. Improving Pollen Classification with Less Training Effort, *Nhat Nguyen, UNC Charlotte; Min Shin, UNC Charlotte; Matina Donaldson-Matasci, University of Arizona*
3. Boosting Object Detection Performance in Crowded Surveillance Videos, *Rogério Feris, Ankur Datta, IBM Research; Sharath Pankanti, IBM Research*
4. Robust Autocalibration for Surveillance Camera Network, *Jingchen Liu, Penn State Univ; Robert Collins, Penn. State; Yanxi Liu, Penn. State*
5. Real-time Tracking of Low-Resolution Vehicles for Wide-Area Persistent Surveillance, *Mark Keck, BAE Systems; Luis Galup, ; Chris Stauffer, BAE*
6. Laparoscopic Instrument Localization using a 3-D Time-of-Flight/RGB Endoscope, *Sven Haase, Friedrich-Alexander-Universität Erlangen-Nürnberg; Thomas Kilgus, German Cancer Research Center; Jakob Wasza, Friedrich-Alexander-Universität Erlangen-Nürnberg; Joachim Hornegger, Friedrich-Alexander-Universität Erlangen-Nürnberg*
7. Automatic curve selection for lens distortion correction using Hough transform energy, *Jinhai Cai, University of South Australia*
8. Gender Recognition Using 2-D Ear Images and Sparse Representation, *Rahman Khorsandi, University of Miami; Mohamed Abdel-Mottaleb, University of Miami*
9. Geometric Calibration for a Multi-Camera-Projector System, *Ricardo Garcia, UC Berkeley; Avideh Zakhor*
10. SAGE: A Principled Approach and Implementation Empowering Quick and Reliable Quantitative Analysis for Segmentation Comparison, *Danna Gurari, Boston University; Seule Ki Kim, ; Eugene Yang, ; Brett Isenberg, ; Tuan Pham, ; Alberto Purwada, ; Patricia Solski, ; Matthew Walker, Joyce Wong, ; Margrit Betke*
11. A Bayesian Non-parametric Viewpoint to Visual Tracking, *Yi Wang, UNSW/NICTA; Zhidong Li, Yang Wang, National ICT Australia; Fang Chen, National ICT Australia (NICTA)*
12. A Graph-Based Algorithm for Multi-Target Tracking with Occlusion, *Dhaval Salvi, Jarrell Waggoner, Andrew Temlyakov, University of South Carolina; Song Wang*
13. The Gixel Array Descriptor (GAD) for Multi-Modal Image Matching, *Guan Pang, Univ of Southern California; Ulrich Neumann, Univ of Southern California*
14. Handwritten Text Segmentation using Average Longest Path Algorithm, *Dhaval Salvi, Jun Zhou, University of South Carolina; Jarrell Waggoner, Song Wang*
15. Spatial-Temporal Structural and Dynamics Features for Surveillance Video Fire Detection, *Hongcheng Wang, UTRC*
16. Whale Blow Detection in Infrared Video using Fractal Analysis as Tool for Representing Dynamic Shape Variation, *Varun Santhaseelan, University of Dayton; Vijayan Asari, University of Dayton*
17. Mass Anomaly Depth Estimation From Full Tensor Gradient Gravity Data, *Daniel Wedge, The University of Western Aust*
18. Tracking Multiple Ants in a Colony, *Thomas Fasciano, UNC Charlotte; Hoan Nguyen, UNCC; Anna Dornhaus, University of Arizona; Min Shin, UNC Charlotte*

1230-1330 Lunch

1230-1500 Day 2 Poster Session + Awards

Friday, January 18

0800-0835 Breakfast**0835-0840 Welcome and Introduction**

- James Ferryman, University of Reading; James L. Crowley, INP Grenoble; (co-chairs)

0840-0945 Session 1: PETS2013 Challenge and People Detection

Chair – TBA

- PETS09 Dataset and Challenge, *J. Ferryman, University of Reading, UK*
- Performance Evaluation of an Improved Relational Feature Model for Pedestrian Detection, *Andreas Zweng, Vienna University of Technology; Martin Kampel, Cogvis GmbH*
- A Motion-Enhanced Hybrid Probability Hypothesis Density Filter for Real-Time Multi-Human Tracking in Video Surveillance Scenarios, *Volker Eiselein, Technische Universität Berlin; Tobias Senst, Technische Universität Berlin; Ivo Keller, Technische Universität Berlin; Thomas Sikora, Technische Universität Berlin*

0945-1015 Coffee Break**1100-1230 Session 2: People Tracking**

- Real-Time Tracking of Single People and Groups Simultaneously by Contextual Graph-Based Reasoning Dealing Complex Occlusions, *Pasquale Foggia, University of Salerno; Gennaro Percannella, University of Salerno; Alessia Saggese, University of Salerno; Mario Vento, University of Salerno*
- Improved Multiple Target Mean Shift Tracking, *Gargi Phadke, Indian Institute of Technology, Bombay; Rajbabu Velmurugan, Indian Institute of Technology, Bombay*
- Unified Hierarchical Multi-Object Tracking using Global Data Association, *Martin Hoffman, Technische Universität München; Michael Haag, Technische Universität München; Gerhard Rigoll, Technische Universität München*

- Parameter Estimation and Contextual Adaptation for a Multi-Object Tracking CRF Model, *Alexandre Heili, Idiap Research Institute, Switzerland; Jean-Marc Odobez, Idiap Research Institute, Switzerland*

1240-1340 Lunch**1340-1445 Session 3: Event Detection and Overall Evaluation**

- Learning Crowd Behaviour for Event Recognition, *Eduardo Cermeño, Vaelsys; Silvana Mallor Hoya, Universidad Autónoma de Madrid; Juan Alberto Sigüenza, Universidad Autónoma de Madrid*
 - Histograms of Optical Flow Orientation for Abnormal Events Detection, *Tian Wang, University of Technology of Troyes; Hichem Snoussi, University of Technology of Troyes*
- Overall Evaluation of PETS09 Results, *A. Ellis and J. Ferryman, Computational Vision Group, University of Reading, UK*

1455-1510 Discussion - PETS: Future (Challenges, Benchmark Datasets, Venues)

- James Ferryman, University of Reading; James L. Crowley, INP Grenoble

1510-1555 - Plenary

- STIMULATE – Spatio-Temporal Multi-Camera Location Tracking Evaluation, *John Garofolo (NIST)*

1555-1600 - Closing Remarks

- James Ferryman, University of Reading; James L. Crowley, INP Grenoble; (co-chairs)

1600 - End of Workshop

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