October 30 (Tuesday)

** Registration **

Tutorial #1  
_Tuesday 9:30 - 11:30_  
Faisal Quereshi  
_Virtual Vision_

** Lunch **

Tutorial #2  
_Tuesday 13:00 - 15:00_  
Christian Micheloni  
_Video analysis in Pan-Tilt-Zoom camera networks_

** Coffee break **

Tutorial #3  
_Tuesday 15:30 - 17:30_  
Senem Velipasalar  
_Smart Cameras Getting Smarter_

** Reception **

October 31 (Wednesday)

** Keynote #1: (chair: Edmund Lam) **  
_Wednesday 9:00 - 10:15_  
Yi Ma  
_The Pursuit of Low-dimensional Structures in High-dimensional Data_

** Coffee break **

** Session Wed.Oral (chair: Andrea Prati) **  
_Smart Cameras and Embedded Computer Vision_  
_Wednesday 11:00 - 12:40_
11:00 Ahmed Nabil Belbachir and Manfred Mayerhofer  
*BiCa360: High-speed Rotating Line Sensor for Real-time 360° Panoramic Vision*

11:20 Michele Fornaciari and Andrea Prati  
*Very Fast Ellipse Detection for Embedded Vision Applications*

11:40 Mauricio Casares, Koray Ozcan, Akhan Almagambetov and Senem Velipasalar  
*Automatic Fall Detection by a Wearable Embedded Smart Camera*

12:00 Franck Vandewiele, Cina Motamed and Tarek Yahiaoui  
*Visibility Management for Object Tracking in the Context of a Fisheye Camera Network*

12:20 Chih-Wei Chen, Tommi Määttä, Kevin Bing-Yung Wong and Hamid Aghajan  
*A Framework for Providing Ergonomic Feedback Using Smart Cameras*

** Lunch **

### Session Wed. Poster+Demo (chair: Andrea Prati)

**Wednesday 14:30 - 16:00**

Krishna Reddy Konda and Nicola Conci  
*Camera positioning for global and local coverage optimization*

Qiang Wang, Jing Wu, Chengnian Long and Bo Li  
*P-FAD: Real-time Face Detection Scheme on Embedded Smart Cameras*

Niki Martinel, Christian Micheloni and Claudio Piciarelli  
*Distributed Signature Fusion for Person Re-Identification*

Franck Ulrich Yonga Yonga, Christophe Bobda and Ali Akbar Zarazadeh  
*Improving Video Communication in Distributed Smart Camera Systems Through ROI-Based Video Analysis and Compression*

Kuan-Hui Lee, Jenq-Neng Hwang, Jang-Hee Yoo and Kyoung-Ho Choi  
*Effective Car Video Retrieval Using Feature Matching in a Mobile Video Cloud*

Akhan Almagambetov, Mauricio Casares and Senem Velipasalar  
*Autonomous Tracking of Vehicle Taillights from a Mobile Platform using an Embedded Smart Camera*

Csaba Beleznai, Nabil Belbachir and Peter Roth  
*Density-based rare event detection from streams of neuromorphic sensor data*
Michael Rauter, Dan Shao and Csaba Beleznai

*Demo: Real-time contour-based pedestrian detection*

Simen Sægrov, Alexander Eichhorn, Jørgen Emerslund, Håkon Stensland, Carsten Griwodz, Dag Johansen and Pål Halvorsen

*Demo: Bagadus: An Integrated System for Soccer Analysis*

** Coffee break **

**Session Wed.PhD (chair: Abbas Bigdeli)**

*Wednesday 16:30 - 17:50*

Melanie Schranz and Bernhard Rinner

*PhD Forum: Consensus in Visual Sensor Networks Consisting of Calibrated and Uncalibrated Cameras*

Prabhu Natarajan

*PhD Forum: Decision-Theoretic Coordination and Control for Active Multi-Camera Surveillance*

Nyan Bo Bo, Sebastian Grünwedel, Peter Van Hese, Jorge Oswaldo Niño-Castañeda, Dirk Van Haerenborgh, Dimitri Van Cauwelaert, Peter Veelaert and Wilfried Philips

*PhD Forum: Illumination-robust Foreground Detection for Multi-camera Occupancy Mapping*

Junzhi Guan, Peter Van Hese, Jorge Oswaldo Niño-Castañeda, Sebastian Grünwedel, Dirk Van Haerenborgh, Dimitri Van Cauwelaert, Peter Veelaert and Wilfried Philips

*PhD Forum: Correlation Coefficient based Template Matching for Indoor People Tracking*

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**November 1 (Thursday)**

**Keynote #2 (chair: Edmund Lam)**

*Thursday 9:00 - 10:15*

Ronald Chung

*The latest development of Structured light based Sensing*

** Coffee break **

**Session Thu.Oral (Senem Velipasalar / Faisal Qureshi)**

*Distributed Smart Cameras for Emerging Applications*

*Thursday 11:00 - 12:40*

11:00 Jiuqing Wan and Fan Zhang

*Multi-camera People Localization via Cascaded Optimization on Higher-order MRFs*
11:20 Sebastian Gruenwedel, Xingzhe Xie, Chih-Wei Chen, Hamid Aghajan and Wilfried Philips  
A Best View Selection in Meetings through Attention Analysis Using a Multi-camera Network

11:40 Yixiao Yun, Irene Yu-Hua Gu and Hamid Aghajan  
Maximum-Likelihood Object Tracking from Multi-View Video by Combining Homography and Epipolar Constraints

12:00 Chun-Te Chu, Jenq-Neng Hwang, Jen-Yu Yu and Kual-Zheng Lee  
Tracking Across Nonoverlapping Cameras Based On The Unsupervised Learning Of Camera Link Models

12:20 Le An, Mehran Kafai and Bir Bhanu  
Face Recognition in Multi-Camera Surveillance Videos using Dynamic Bayesian Network

** Lunch **

Session Thu.Oral.Special (chair: Vincent Tam)  
Uses of Smart Cameras/Mobile Devices for Human Well-Being  
Thursday 14:00 - 16:00

14:00 Feng Tian and Zu-ren Feng  
Coordinating the Navigation of Multiple Wheelchairs in Indoor Environment with Wireless Sensor Networks

14:20 Xiang Meng, Chung-Ming Cheung, Ka-Lok Ho, King-Shan Lui, Edmund Y. Lam, and Vincent Tam  
Building smart cameras on mobile tablets for hand gesture recognition

14:40 Bingshu Yang, Jinshi Cui, Hongbin Zha, Hamid Aghajan and Tian Lu  
Visual Context Based Infant Activity Analysis

15:00 Andrew Kwok-Fai Lui, Ka-Fai Wong, Sin-Chun Ng, Ka-Hing Law  
Development of a Mental Stress Relaxation Tool based on Guided Imagery and Microsoft Kinect

15:20 Wilton Fok and Jacqueline Lam  
Real-time interactive learning through smart mobile devices

15:40 Hui Zhao, Qinghua Zheng and Weizhan Zhang  
A Mobile Learning System for Supporting Heterogeneous Clients based on P2P Live Video Streaming

** Tour and Banquet **

November 2 (Friday)
Keynote #3 (chair: King-Shan Lui)
Friday 9:00 - 10:15
Klara Nahrstedt
View-Based TeleCast for Distributed Multi-Camera Systems

** Coffee break **

Session Fri.Oral.am (chair: Jie Yang)
Visual Sensor Networks
Friday 11:00 - 12:40

11:00 Bernhard Dieber, Lukas Esterle and Bernhard Rinner
Distributed Resource-aware Task Assignment for Complex Monitoring Scenarios in Visual Sensor Networks

11:20 Lukas Esterle, Peter R. Lewis, Bernhard Rinner and Xin Yao
Improved Adaptivity and Robustness in Decentralised Multi-Camera Networks

11:40 Rahul Raman, Pankaj K. Sa and Bansidhar Majhi
Occlusion prediction algorithms for multi-camera network

12:00 Chong Ding, Akshay A. Morye, Jay A. Farrell and Amit K. Roy-Chowdhury
Opportunistic Sensing in a Distributed PTZ Camera Network

12:20 Prabhu Natarajan, Trong Nghia Hoang, Kian Hsiang Low and Mohan Kankanhalli
Active Multi-Camera Surveillance of Targets in Uncertain, Partially Observable Environments

** Lunch **

Session Fri.Poster+Demo (chair: Faisal Qureshi)
Friday 14:00 - 15:30

Keren Fu, Chen Gong, Yu Qiao, Jie Yang and Irene Gu
One-Class SVM Assisted Accurate Tracking

Alex Susu
Using Python for Cross-platform Video Surveillance Mobile Application Development

Fang Zhu, Chen Zhao and Jinmei Cheng
ECLC: edge character and latency connection enhanced inter-frame difference algorithm for real-time outdoor surveillance
Maarten Slembrouck, Michaël Heyvaert, Dimitri Van Cauwelaert, David Van Hamme, Peter Veelaert and Wilfried Philips

*Time complexity of traditional vision algorithms on a block-based image processor (BLIP)*

Jose Luis Alarcon Herrera and Xiang Chen

*Real-Time Configuration of PTZ Camera Networks*

Qiao Huang, Jie Yang and Yu Qiao

*Person re-identification across multi-camera system based on local descriptors*

Fatemeh Rezaei and Babak Hossein Khalaj

*Distributed Human Tracking in SmartCamera Networks by Adaptive Particle Filtering and Data Fusion*

Carsten Grenz, Uwe Jaenen and Joerg Haehner

*Demo: CamInSens - A Distributed Smart Camera System for In-Situ Threat Detection*

Hui Zhao, Qinghua Zheng and Weizhan Zhang

*Demo: SkyClass: a Large-scale Mobile Learning System for Heterogeneous Clients*

Quentin De Neyer, Li Sun, Christophe Chaudy, Christophe Parisot and Christophe De Vleeschouwer

*Demo: Point Matching for PTZ Camera Auto-tracking*

**Coffee break**

**Session Fri.Oral.pm (chair: Abbas Bigdeli)**

**Distributed Computer Vision**

*Friday 16:00 - 17:40*

16:00 Michael Bredereck, Xiaoyan Jiang, Marco Körner and Joachim Denzler

*Data Association for Multi-Object Tracking-by-Detection in Multi-Camera Networks*

16:20 Xingzhe Xie, Sebastian Gruenwedel, Vedran Jelaca, Jorge Oswaldo Nino Castaneda, Dirk Van Haerenborgh, Dimitri Van Cauwelaert, Peter Van Hese, Peter Veelaert, Wilfried Philips and Hamid Aghajan

*Learning about Objects in the Meeting Rooms from People Trajectories*

16:40 Jiajia Luo and Hairong Qi

*Motion Local Ternary Pattern for Distributed Multi-View Human Action Recognition*

17:00 Mohamed Helala, Luis A. Zarrabeitia and Faisal Z. Qureshi

*Mosaic of near ground UAV videos under parallax effects*

17:20 Zhixing Jin and Bir Bhanu

*Integrating Crowd Simulation for Pedestrian Tracking in a Multi-Camera System*