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# Monday January 9, 2012

**8:00-20:00** – Registration Desk / Computer Rm – *Evergreen Rm*

**8:30 - 9:00** – Breakfast (included) -- *Miners A+B*

**9:00 - 10:00 MMBIA Oral 1 – DTI** - *Ten Mile Room*

**A Geometric Analysis of ODFs As Oriented Surfaces for Interpolation, Averaging and Denoising in HARDI Data**  
*Sentibaleng Ncube, Qian Xie, Florida State University; Anuj Srivastava, FSU*

**A Generalized Correlation Coefficient: Application to DTI and Multi-Fiber DTI**  
*Maxime Taquet, UCL, Belgium; Benoît Macq, Simon Warfield, Harvard Medical School*

**Reconstruction of HARDI using compressed sensing and its application to contrast HARDI**  
*Sudipto Dolui, University of Waterloo; Iván Salgado Patarroyo, University of Waterloo; Oleg Michailovich, University of Waterloo; Yogesh Rathi, Brigham and Women's Hospital, Harvard Medical School*

**10:00 – 10:40 Plenary Talk** *Ten Mile Room*

**Milan Sonka** --*Optimal Image Segmentation: Incorporating Context and Priors*

**10:40 – 11:00 Coffee Break** – *Miners A+B*

**11:00 – 12:00 MMBIA Oral 2 – Modeling** – *Ten Mile room*

**Sparse Shape Representation using the Laplace-Beltrami Eigenfunctions and Its Application to Modeling Subcortical Structures**

*Seung-Goo Kim, Seoul National University; Moo Chung, University of Wisconsin, Madison; Stacey Schaefer, University of Wisconsin, Madison; Carien van Reekum, University of Reading; Richard Davidson, University of Wisconsin-Madison*

**Elastic Symmetry Analysis of Anatomical Structures**

*Sebastian Kurtek, Florida State University; Anuj Srivastava, Florida State University Department of Statistics*

**Vascular Bifurcation Detection in Scale-Space**

*Daniel Baboiu, Simon Fraser University; Ghassan Hamarneh, Simon Fraser University*

**12:00 – 13:40 Lunch (included) Forest Room**

**13:40 – 15:00 MMBIA Oral 3 – Segmentation Ten Mile**

**Building Spatiotemporal Anatomical Models through Joint Segmentation, Registration, and 4D-Atlas Estimation**

*Marcel Prastawa, University of Utah; Suyash Awate, Guido Gerig, U of Utah*

**Using a Flexibility Constrained 3D Statistical Shape Model for Robust MRF-Based Segmentation**

*Tahir Majeed, Medical Image Analysis Center; Ketut Fundana, Silja Kiriyanthan, University of Basel; Marcel Luethi, Dept of Computer Science, University of Basel; Joerg Beinemann, Philippe Cattin, University of Basel*

**Pictorial Multi-atlas Segmentation of Brain MRI**

*CHENG-YI LIU, UCLA; Juan Eugenio Iglesias, UCLA; Zhuowen Tu, UCLA*

**Multi-region Competitive Tractography via Graph-based Random Walks**

*Brian Booth, Simon Fraser University; Ghassan Hamarneh, Simon Fraser University*

**15:00 – 16:00 MMBIA Oral 4 – Applications – Ten Mile Rm**

**Automated Abdominal Fat Quantification and Food Residue Removal in CT**

*Sokratis Makrogiannis, NIA/NIH; Ramona Ramachandran, NIA/NIH; Chee Chia, NIA/NIH; Ferrucci Luigi, NIA/NIH*

**Disease-Specific Context Modeling and Retrieval with Fast Structure Localization**

*Yang Song, University of Sydney; Weidong Cai, Dagan Feng,*

**Learning Features for Streak Detection in Dermoscopic Color Images using Localized Radial Flux of Principal Intensity Curvature**

*Hengameh Mirzaalian, SFU; Ghassan Hamarneh, Simon Fraser University; Tim Lee, UBC*

**16:00 – 16:30 Coffee Break** *Forest Room*

**16:30 – 18:00 MMBIA Poster Session 1** *Forest Room*

- 1 - Max Margin General Linear Modeling for Neuroimage Analyse**  
*Nagesh Adluru, University of Wisconsin-Madison; Chad Ennis, University of Wisconsin-Madison; Richard Davidson, University of Wisconsin-Madison; Andrew Alexander, University of Wisconsin-Madison*
- 3 - Registration of Unseen Images Based on the Generative Manifold Modeling of Variations of Appearance and Anatomical Shape in Brain Population** *Weiwei Zhang , University of Pennsylvania*
- 5 - Volume of Interest (VOI)-Based Retrieval using Psychophysical Similarity and Graph Cut** *Ravi Samala, Ming-Ying Leung, Sergio Cabrera, Jianying Zhang , Univ of Texas, El Paso; Wilfrido Moreno, Univ of South Florida, Tampa; wei Qian, Univ of Texas, El Paso*
- 7 - A Coupled Segmentation and Registration Framework for Medical Image Analysis Using Robust Point Matching and Active Shape Model** *Chao Lu, Yale University; James Duncan, Yale University*



- 9 - A Fiber Tracking Method Guided by Volumetric Tract Segmentation** *Chuyang Ye, Johns Hopkins University; Pierre-Louis Bazin, Sarah Ying, Jerry Prince, Johns Hopkins U*
- 11 -Parametric non-rigid registration using a stationary velocity field** *Marc Modat, UCL; Gerard Ridgway, Pankaj Daga, Jorge Cardoso, John Ashburner, Sebastien Ourselin, UCL*
- 13 -Multi-STEPS: Multi-Label Similarity and Truth Estimation for Propagated Segmentations** *Jorge Cardoso, Marc Modat, UCL; Shiva Keihaninejad, ; Dave Cash, UCL; Sebastien Ourselin, UCL*
- 15 -Automatic Detection of Subcellular Particles in Fluorescence Microscopy via Feature Clustering and Bayesian Analysis** *Liang Liang, Yale University; Yingke xu, Yale; hongying Shen, Yale; derek Toomre, Yale; pietro Camilli, Yale; James Duncan, Yale University*
- 17 -Non-rigid Image Registration using Electric Current Flow** *Shu Liao, HKUST; Max W K Law, HKUST; Albert Chung, Hong Kong U of Science and Technology*
- 19 -Supervised localization of cell nuclei on TMA images** *Alessandro Ibba, TU Delft; Marco Loog, TU Delft; Robert P.W. Duin, TU Delft*
- 21 -Topology Preserving Brain Tissue Segmentation Using Graph Cuts** *Xinyang Liu, Johns Hopkins University; Pierre-Louis Bazin, Aaron Carass, Johns Hopkins University; Jerry Prince, Johns Hopkins University*
- 23 -Toward Whole-Brain Maps of Neural Connections: Logical Framework and Fast Implementation** *Myron Zhang, Cleveland Clinic Foundation; Ken Sakaie, The Cleveland Clinic; Stephen Jones, The Cleveland Clinic*

**14:00-18:00 WACV Tutorial** -- *Aspen Room*

**Introduction to PyVision and CSU Face Recognition Baseline Algorithm** by *David Bolme and Steve O'Hara* – *Colorado State University.*

# Tuesday January 10, 2012

**8:00-20:00 Registration Desk/Computer Room – Evergreen rm**

**8:30-9:00 Breakfast – Miners A+B**

**9:00–10:00 MMBIA Oral 5 – Tracking /Registration Ten Mile room**

**Best Linear Unbiased Estimator for Kalman Filter Based Left Ventricle Tracking in 3D+T Echocardiography**

*Engin Dikici, NTNU; Fredrik Orderud, GE Vingmed Ultrasound; Hans Torp, Norwegian University of Science and Technology*

**Robust Tumour Tracking From 2D Imaging Using a Population-Based Statistical Motion Model**

*Frank Preiswerk, University of Basel; Patrik Arnold, MIAC; Beat Fasel, University of Basel; Philippe Cattin, University of Basel*

**Sparsity and Scale: Compact Representations of Deformation for Diffeomorphic Registration**

*Stefan Sommer, University of Copenhagen; Mads Nielsen, University of Copenhagen; Xavier Pennec, INRIA Sophia-Antipolis*

**10:00 – 10:40 Plenary Talk 2 – Ten Mile Room –**

**Simon Warfield -- *Mathematical Methods for Pediatric MR Image Analysis***

**10:40 – 10:45 Best Paper Award Ten Mile Room**

**10:45 – 11:00 Coffee Break Forest Room**

**11:00 – 12:30 MMBIA Poster Session 2 Forest Room**

**2 - Reconstructing A Sequence of Magnetic Resonance Images**

**Simultaneously Using Low-Rank and Sparse Model** *Shiqian Ma, University of Minnesota; Amit Chakraborty, Siemens*

- 4 - Peak Geodesic Concentration: A measure of WM complexity in HARDI** *Arvind Rao, University of Pennsylvania; Alex Smith, University of Pennsylvania; Robert Schultz, Children's Hospital of Philadelphia; Timothy Roberts, Lurie Family Foundations; Ragini Verma, University of Pennsylvania*
- 6 - Automatic Atlas-based Three-label Cartilage Segmentation from MR Knee Images** *Liang Shan, UNC Chapel Hill; Marc Niethammer, UNC Chapel Hill*
- 8 - Super-Resolution Reconstruction of Diffusion-Weighted Images from Distortion Compensated Orthogonal Anisotropic Acquisitions.** *Benoit Scherrer, Harvard Medical School; Ali Gholipour, Harvard Medical School; Simon Warfield, Harvard Medical School*
- 10 -Robust Non-Rigid Registration and Characterization of Uncertainty** *Firdaus Janoos, Harvard Medical School; Petter Risholm, Harvard Medical School; William Wells, Harvard Medical School*
- 12 -Iterative Segmentation and Motion Correction for Dynamic PET Images based on Radioactive Tracer Kinetics** *Hengameh Mirzaalian, SFU; Ahmed Saad, SFU; Ghassan Hamarneh, Simon Fraser University*
- 14 -Spatial dispersion of lesions as a surrogate biomarker for disability in multiple sclerosis** *Fahime Sheikhzadeh, University of British Columbia; Roger Tam, Ghassan Hamarneh, Simon Fraser University*
- 16-Motion modelling and motion compensated reconstruction of tumours in cone-beam computed tomography** *James Martin, UCL; Jamie McClelland, UCL; David Hawkes, UCL*
- 18 -Polyaffine parametrization of Image registration based on geodesic flows** *Michael Hansen, Harvard Medical School; Signe Thorup, Childrens Hospital Boston, Harvard Medical School; Simon Warfield, Harvard Medical School*

**20 -Automatic Extraction of Coronary Artery Tree in 2D X-ray Angiography** *Tanveer Syeda-Mahmood, IBM Almaden Research*

**22 -Segmentation of Left Ventricles from Echocardiographic Sequences via Sparse Appearance Representation** *Xiaojie Huang, Yale University*

**14:00-22:00 WACV**

**14:00-14:15 Coffee and snack** *Miners A+B*

**14:15-14:20 Intro by Chairs** *Ten Mile Room*

**14:20-15:00 Invited Speaker = Ten Mile Room**

**Luc Vincent** *Google Street View: Overview and Recent Developments*

**15:00-15:45 WACV Long Oral Session 1** *Ten Mile Room*

**Street View Goes Indoors: Automatic Pose Estimation From Uncalibrated Unordered Spherical Panoramas**

*Mohamed Aly, Google*

**Implementing High Resolution Structured Light by Exploiting Projector Blur** *Camillo Taylor, University of Pennsylvania*

**A New Upsampling Method for Mobile LiDAR Data**

*Ruisheng Wang, NAVTEQ; Jeff Bach, Jane Macfarlane, NAVTEQ; Frank Ferrie*

**15:45-16:00 Break**

**16:00-17:00 WACV Short Oral Session 1** *Ten Mile Room*

- 1. PTZ Camera Network Calibration from Moving People in Sports Broadcasts** *Jens Puwein, ETH Zurich; Remo Ziegler, LiberoVision; Ballan Luca, ETH Zurich; Marc Pollefeys, ETH Zurich*

2. **Real-time 3-D Face Tracking and Modeling From a Webcam** *Jongmoo Choi, University of Southern California; Gerard Medioni, Univ of Southern California; Yann Dumortier, USC-IRIS; Sang-Il Choi, USC; Muhammad Bilal Ahmad, Univ. of So. Calif*
3. **Improving Realism of 3D Texture using Component Based Modeling** *Siddharth Kherada, IIIT-H*
4. **Mutual Occlusion between Real and Virtual Elements in Augmented Reality based on Fiducial Markers** *Silvio Sanches, Universidade de São Paulo; Daniel Tokunaga, Universiadde de São Paulo; Valdinei Silva, Universiadde de São Paulo; Antonio Sementille, Universidade Estadual Paulista; Romero Tori, Universiadde de São Paulo*
5. **Efficient Tracking of Ants in Long Video with GPU and Interaction** *Corey Poff, Davidson College; Hoan Nguyen, UNCC; Tim Kang, UNC-Chapel Hill; Min Shin, UNCC*
6. **Fast Graph Cuts using Shrink-Expand Reparameterization** *Parikshit Sakurikar, IIIT, Hyderabad; P. J. Narayanan, IIIT, Hyderabad*
7. **Non-Rigid Surface Detection for Gestural Interaction with Applicable Surfaces** *Andrew Ziegler, UCSD; Serge Belongie, UCSD*
8. **Face Typing: Vision-Based Perceptual Interface for Hands-Free Text Entry with a Scrollable Virtual Keyboard** *Yulia Gizatdinova, University of Tampere; Oleg Spakov, University of Tampere; Veikko Surakka, University of Tampere*
9. **Real-time Stereo and Flow-based Video Segmentation with Superpixels** *Michael Van den Bergh, ETZ Zurich; Luc Van Gool, ETH Zurich, KU Leuven*
10. **Illumination-Free Photometric Metric for Range Image Registration** *Diego Thomas, National Institute of Informatics; Akihiro Sugimoto*

11. **Robust Tracking for Interactive Social Video** *Stefan Wilk, University of Mannheim; Stephan Kopf, University of Mannheim; Wolfgang Effelsberg, University of Mannheim*
12. **A Sparse Representation Approach to Face Matching across Plastic Surgery** *Gaurav Aggarwal, University of Notre Dame; Soma Biswas, Notre Dame; Patrick Flynn, University of Notre Dame; Kevin Bowyer, University of Notre Dame*

**17:00-18:00 WACV Poster Session 1** (see papers in Short Orals Session 1) *Forest Room*

**18:00-19:00 Dinner (included) + Poster Session 1** *Forest*

**19:00-19:45 WACV Long Oral Session 2** *Ten Mile Room*

**A Complementary Local Feature Descriptor for Face Identification**

*Jonghyun Choi, University of Maryland; William Schwartz, Univ. of Campinas (Unicamp); Huimin Guo, University of Maryland; Larry Davis, University of Maryland*

**A Passive Stereo System for 3D Human Face Reconstruction and Recognition at a Distance**

*Mostafa Abdelrahman, University of Louisville*

**Quaternion DCT Spectral Saliency: Predicting Human Gaze using Quaternion DCT Image Signatures and Face Detection**

*Boris Schauerte, Karlsruhe Inst. Tech.; Rainer Stiefelhagen, Karlsruhe Inst. Tech. & Fraunhofer IOSB*

**19:45-20:40 Short Oral Session 2** *Ten Mile Room*

1. **CompactKdt: Compact Signatures for Accurate Large Scale Image Search** *Mohamed Aly, Google*
2. **A Blob Representation for Tracking Robust to Merging and Fragmentation** *Vinay Sharma, Texas Instruments*

3. **Secure remote matching with privacy: Scrambled Support Vector Vaulted Verification (S<sup>2</sup>V<sup>3</sup>)** *Michael Wilber, VAST lab, UCCS; Terrance Boulton, Univ. of Colorado at Colorado Springs*
4. **Measuring Face Familiarity and Its Application to Face Recognition** *Ce Zhan, University of Wollongong; Wanqing Li, Philip Ogunbona*
5. **Image Congealing via Efficient Feature Selection** *Ya Xue, GE Global Research; Xiaoming Liu, GE Global Research*
6. **For Your Eyes Only** *Brian Heflin, Securics; Terrance Boulton, UCCS; Walter Scheirer, Securics*
7. **Unconstrained Periocular Biometric Acquisition and Recognition Using COTS PTZ Camera for Uncooperative and Non-Cooperative Subjects** *Felix Juefei-Xu, Carnegie Mellon University; Marios Savvides, Carnegie Mellon University*
8. **New Hope for Recognizing Twins by Using Facial Motion** *Li Zhang, NUS ; Ning Ye, Elisa Martinez-Marroquin, La Salle-Ramon Llull University; Terence Sim, National University of Singapore*
9. **A Nonintrusive System for Behavioral Analysis of Children using Multiple RGB+Depth Sensors** *Nicholas Walczak, Joshua Fasching, University of Minnesota; Bill Toczyski, University of Minnesota; Nathaniel Bird, University of Minnesota; Barbra Murphy, Guillermo Sapiro, Vassilios Morellas, Nickolaos Papanikolopoulos*
10. **Image Alignment for Multiple Camera High Dynamic Range Microscopy** *Brian Eastwood, Colby College; Elisabeth Childs, Colby College*
11. **Automatic Identification of Frankfurt Plane and Mid-Sagittal Plane of Skull** *Yuan Cheng, National Univ. of Singapore; Wee Kheng Loew, National University of Singapore; Thiam Chye Lim, National University Hospital, Singapore*

**20:40-22:00 WACV Poster Session 2 + Dessert** *Forest*

**Wednesday, Jan 11, 2012**

**10:00-22:00** Registration Desk/Computer Room - *Evergreen Room*

**14:00-14:15** Coffee and snack *Miners A+B*

**14:15-15:00** WACV Long Oral Session 3 *Ten Mile Room*

**Multimodal Ranking for Non-Compliance Detection in Retail Surveillance**

*Hoang Trinh, IBM T J Watson Research Center; Sharath Pankanti, IBM T J Watson Research Center; Quanfu Fan, IBM T J Watson Research Center*

**Group-Level Context Learning for Event Recognition**

*Yimeng Zhang, Cornell University; Weina Ge, Ming-Ching Chang; Xiaoming Liu, Ge Global Research*

**A Systems Level Approach to Perimeter Protection**

*Peter Tu, GE Global Research; Ting Yu, GE Global Research; Dashan Gao, GE Global Research; Ram Nevatia, Univ. of Southern California; Sung Chun Lee, University of Southern California; Hale Kim, Inha University; Phill Kyu Rhee, Inha University; Joong-Hwan Baek, Korean Aeronautics University*

**15:05-15:15** Break

**15:15 – 16:40** WACV Short Oral Session 3 *Ten Mile Room*

1. **Indian Classical Dance Classification by Learning Dance Pose Bases** *Soumitra Samanta, ISI, Kolkata; Pulak Purkait, Bhabatosh Chanda*
2. **Accurate Efficient Mosaicking for Wide Area Aerial Surveillance** *Jan Prokaj, Univ of Southern California; Gerard Medioni, Univ of Southern California*



3. **Simultaneous Inference of Activity, Pose and Object** *Furqan Khan, Univ of Southern California; Vivek Singh, Univ of Southern California; Ram Nevatia, Univ. of Southern California*
4. **Enhanced Rail Component Detection and Consolidation for Rail Track Inspection** *Hoang Trinh, IBM T J Watson Research Center; Ying Li, Charles Otto, Norman Haas, Sharath Pankanti, IBM T J Watson Research Center*
5. **LOST: Longterm Observation of Scenes (with Tracks)** *Austin Abrams, Washington University in St. L.; Jim Tucek, Washington University in St. L.; Nathan Jacobs, University of Kentucky; Robert Pless, Washington University in St. Louis*
6. **Estimating the Spatial Extents of Geospatial Objects Using Hierarchical Models** *Shawn Newsam, Univ. of California, Merced; Yi Yang, UC Merced*
7. **Robust Detection, Classification and Positioning of Traffic Signs from Street-Level Panoramic Images for Inventory Purposes** *Lykele Hazelhoff, CycloMedia Technology B.V.; Ivo Creusen, CycloMedia Technology B.V.; Peter de With, Eindhoven University of Technology*
8. **Reconfigurable Templates for Robust Vehicle Detection and classification** *Yang Lv, Beijing Institute of Tech; Benjamin Yao, Yongtian Wang, Song-Chun Zhu, University of California, Los Angeles*
9. **Classification of Plant Structures from Uncalibrated Image Sequences** *Debadeepta Dey, The Robotics Institute, CMU; Lily Mummert, Intel Labs, Pittsburgh; Rahul Sukthankar, Intel Labs, Pittsburgh*
10. **Measurement of Bitumen Coverage of Stones for Road Building, Based on Digital Image Analysis** *Hanna Källén, Lund University; Anders Heyden, Lund University; Kalle Åström, Lund University; Per Lindh, Peab*

11. **Photographic Steganography for Visual MIMO: A Computer Vision Approach** *Wenjia Yuan, Rutgers University; Kristin Dana, Rutgers University*
12. **Localization Accuracy of Interest Point Detectors Evaluated on Intensity-Depth Images** *Xiaojin Gong, Zhejiang University; Jilin Liu, Zhejiang University*
13. **A Modular System Architecture for Online Parallel Vision Pipelines** *Jeremie Papon, University of Goettingen; Alexey Abramov, Georg-August University; Eren Erdal Aksoy, University of Goettingen; Florentin Woergoetter*
14. **Tools for Richer Crowd Source Image Annotations** *Joshua Little, Washington University in St. Louis; Austin Abrams, Washington University in St. L.; Robert Pless, Washington University in St. Louis*
15. **Point-less Calibration: Camera Parameters from Gradient-Based Alignment to Edge Images** *Peter Carr, Disney Research, Pittsburgh*
16. **Color Balancing for Change Detection in Multitemporal Images** *Jim Thomas, University of Notre Dame; Kevin Bowyer, University of Notre Dame; Ahsan Kareem, University of Notre Dame*
17. **LSDA Solution Schemes for Modelless 3D Head Pose Estimation** *Fadi Dornaika, Univ. of Basque Country; Alireza Bosaghzadeh, ; Bogdan Raducanu, Computer Vision Center*

**16:50-18:00 WACV Poster Session 3** *Forest Room*

**18:00-19:00 Dinner (included) + Poster Session 3** *Forest Room*

## **19:00-19:45 Long Oral Session 4** *Ten Mile Room*

### **Batch Mode Active Learning For Multi-Label Image Classification With Informative Label Correlation Mining**

*Bang Zhang, University of New South Wales; Yang Wang, National ICT Australia; Wei Wang, University of New South Wales*

### **Learning and Recognizing Complex Multi-Agent Activities with Applications to American Football Plays**

*Eran Swears, Kitware Inc.; Anthony Hoogs, Kitware*

### **Non-Parametric Motion-Priors for Flow Understanding**

*Vasilis Lasdas, K.U. Leuven; Radu Timofte, K.U. Leuven; Luc Van Gool, K.U. Leuven*

## **19:45-20:40 WACV Short Oral Session 4** *Ten Mile Room*

- 1. Online Discriminative Object Tracking with Local Sparse Representation** *Qing Wang, Tsinghua University; Ming-Hsuan Yang, UC-Merced; Feng Chen, Tsinghua University; Wenli Xu, Tsinghua University*
- 2. Kernel Analysis over Riemannian Manifolds for Visual Recognition of Actions, Pedestrians and Textures** *Mehrtash Harandi, National ICT Australia (NICTA); Conrad Sanderson, National ICT Australia (NICTA); Arnold Wiliem, National ICT Australia (NICTA); Brian Lovell, National ICT Australia (NICTA)*
- 3. Improving Evolution-Constructed Features Using Speciation**, *Kirt Lillywhite, Brigham Young University; Dah-Jye Lee, Brigham Young University; Beau Tippetts, Brigham Young University*
- 4. Learning Reconfigurable Scene Representation by Tangram Model** *Jun Zhu, Shanghai Jiao Tong University; Tianfu Wu, Song-Chun Zhu, University of California, Los Angeles ; Xiaokang Yang, Shanghai Jiao Tong University; Wenjun Zhang, Shanghai Jiao Tong University*

5. **Depth-supported real-time video segmentation with the Kinect***Alexey Abramov, Georg-August University; Babette Dellen, Karl Pauwels, Jeremie Papon, Florentin Woergoetter*
6. **Appearance-based Face Recognition Using A Supervised Manifold Learning Framework***Bogdan Raducanu, Computer Vision Center; Fadi Dornaika*
7. **Fast Planar Object Detection and Tracking via Edge Distribution Templates***Taehee Lee, UCLA; Stefano Soatto, UCLA*
8. **Multiple-Instance Learning from Multiple Perspectives: Combining Models for Multiple-Instance Learning***Bang Zhang, University of New South Wales; Yang Wang, National ICT Australia; Wei Wang, University of New South Wales*
9. **Apparel Silhouette Attributes Recognition***Wei Zhang, Google; Emilio Antunez, Google Inc; Salih Gokturk, Google Inc; Baris Sumengen, Google Inc.*
10. **Real Time Moving Vehicle Detection and Reconstruction for Improving Classification***Tao Wang, City College of New York; Zhigang Zhu, CCNY*
11. **Predicting Good, Bad and Ugly Match Pairs***Gaurav Aggarwal, University of Notre Dame; Soma Biswas, Notre Dame; Patrick Flynn, University of Notre Dame; Kevin Bowyer, University of Notre Dame*

**20:40-22:00 Poster Session 4 + Dessert** *Forest Room*

**21:30 WACV Best Paper Awards** *Forest Room*