



A physics-based statistical model for human gait analysis  
*Petrissa Zell and Bodo Rosenhahn*

PO2            Friday, 09.10.,  
                  10:00 - 10:45        **Plenary Oral Session 2**

Joint 3D Object and Layout Inference from a single RGB-D Image  
*Andreas Geiger and Chaohui Wang (GCPR)*

Variational Separation of Light Field Layers  
*Ole Johannsen, Antonin Sulc, Bastian Goldluecke (VMV)*

O6             Friday, 09.10.,  
                  11:15 - 12:30        **Recognition and Scene Understanding**

Object Proposals Estimation in Single Depth Images Using Compact 3D Shape Manifolds  
*Shuai Zheng, Victor Adrian Prisacariu, Melinos Averkiou, Ming-Ming Cheng, Niloy J. Mitra, Jamie Shotton, Philip H.S. Torr, and Carsten Rother*

The Long-Short Story of Movie Description  
*Anna Rohrbach, Marcus Rohrbach, and Bernt Schiele*

Graph-Based Deformable 3D Object Matching  
*Bertram Drost and Slobodan Ilic*

#### Poster Sessions

P1             Thursday, 08.10.,  
                  15:00 - 17:00        **Poster Session 1**

1              Line3D: Efficient 3D Scene Abstraction for the Built Environment  
*Manuel Hofer, Michael Maurer, and Horst Bischof*

2              An Efficient Linearisation Approach for Variational Perspective Shape From Shading  
*Daniel Maurer, Yong Chul Ju, Michael Breuß, and Andrés Bruhn*

3              TomoGC: Binary Tomography by Constrained GraphCuts  
*Jörg Hendrik Kappes, Stefania Petra, Christoph Schnörr, and Matthias Zisler*

4              An Improved Eikonal Method for Surface Normal Integration  
*Martin Baehr and Michael Breuß*

5              Fast Techniques for Monocular Visual Odometry  
*M. Hossein Mirabdollah and Bärbel Mertsching*

6              Iterative Automated Foreground Segmentation in Video Sequences Using Graph Cuts  
*Tomislav Hrkać and Karla Brkić*

7              A Novel Tree Block-Coordinate Method for MAP Inference  
*Christopher Zach*

8              A Parametric Spectral Model for Texture-Based Saliency  
*Kasim Terzić, Sai Krishna, and J.M.H. du Buf*

9              High Speed Lossless Image Compression  
*Hendrik Siedelmann, Alexander Wender, and Martin Fuchs*

10             Learning Reaction-Diffusion Models for Image Inpainting  
*Wei Yu, Stefan Heber, and Thomas Pock*

- 11 Image Orientation Estimation with Convolutional Networks  
*Philipp Fischer, Alexey Dosovitskiy, and Thomas Brox*
- 12 Semi-Automatic Basket Catheter Reconstruction from two X-ray views  
*Xia Zhong, Matthias Hoffmann, Norbert Strobel, and Andreas Maier*
- 13 Fast Brain MRI Registration with Automatic Landmark Detection Using a Single Template Image  
*Olga V. Senyukova and Denis S. Zornin*
- 14 Photorealistic Face Transfer in 2D and 3D Video  
*Daniel Merget, Philipp Tiefenbacher, Mohammadreza Babaei, Nikola Mitov, and Gerhard Rigoll*
- Young Researcher Forum Posters**
- YRF1 Random Forests for 3D Pose Estimation from 2D Images  
*Ilya Kostrikov*
- YRF2 Image Segmentation in Twenty Questions  
*Christian Rupprecht*
- Nectar Track Posters**
- NT1 Discovering Object Classes from Activities  
*Abhilash Srikanta, Jürgen Gall*  
(ECCV 2014)
- NT2 Stereo Ground Truth with Error Bars  
*Daniel Kondermann, Rahul Nair, Stephan Meister, Wolfgang Mischler, Burkhard Güssefeld, Claus Brenner, Bernd Jähne*  
(ACCV 2014)
- NT3 Visualizing Tensor Normal Distributions at Multiple Levels of Detail  
*A. Abbasloo, V. Wiens, M. Hermann, T. Schultz*  
(TVCG / IEEE VIS 2015)
- NT4 Learning Analysis-by-Synthesis for 6D Pose Estimation in RGB-D Images  
*Carsten Rother*  
(ICCV 2015)
- NT5 Selecting Influential Examples: Active Learning with Expected Model Output Changes  
*Alexander Freytag, Erik Rodner, and Joachim Denzler*  
(ECCV 2014)
- NT6 Traditional Saliency Reloaded: A Good Old Model in New Shape  
*Simone Frntrop, Thomas Werner, and Germán Martín García*  
(CVPR 2015)
- NT7 Material Classification based on Training Data Synthesized Using a BTF Database  
*Michael Weinmann, Juergen Gall, Reinhard Klein*  
(ECCV'14)
- NT8 Driven Learning for Driving: How Introspection Improves Semantic Mapping  
*R. Triebel, H. Grimmer, R. Paul, I. Posner*  
(ISRR 2013)
- NT9 Linguistic Knowledge for Visual Recognition and Natural Language Descriptions of Visual Content (DAGM MVTEC Dissertation Award)  
*Marcus Rohrbach*  
(DAGM MVTEC Dissertation Award)

**Poster Session 2**

- 15 GraphFlow - 6D Large Displacement Scene Flow via Graph Matching  
*Hassan Abu Alhaja, Anita Sellent, Daniel Kondermann, and Carsten Rother*
- 16 FlowCap: 2D Human Pose from Optical Flow  
*Javier Romero, Matthew Loper, and Michael J. Black*
- 17 3D Facial Landmark Detection: How to Deal with Head Rotations?  
*Anke Schwarz, Esther-Sabrina Wacker, Manuel Martin, M. Saquib Sarfraz, and Rainer Stiefelhagen*
- 18 Enhanced GPT Correlation for 2D Projection Transformation Invariant Template Matching  
*Toru Wakahara and Yukihiro Yamashita*
- 19 Semantic segmentation based traffic light detection at day and at night.  
*Vladimir Haltakov, Jakob Mayr, Christian Unger, and Slobodan Ilic*
- 20 Pose Estimation and Shape Retrieval with Hough Voting in a Continuous Voting Space  
*Viktor Seib, Norman Link, and Dietrich Paulus*
- 21 Fast Approximate GMM Soft-Assign for Fine-Grained Image Classification with Large Fisher Vectors  
*Josip Krapac and Siniša Šegvić*
- 22 Regressor Based Estimation of The Eye Pupil Center  
*Necmeddin Said Karakoc, Samil Karahan, and Yusuf Sinan Akgul*
- 23 Patch-level Spatial Layout for Classification and Weakly Supervised Localization  
*Valentina Zadrija, Josip Krapac, Jakob Verbeek, and Siniša Šegvić*
- 24 A Deeper Look at Dataset Bias  
*Tatiana Tommasi, Novi Patricia, Barbara Caputo, and Tinne Tuytelaars*
- 25 What is Holding Back Convnets for Detection?  
*Bojan Pepik, Rodrigo Benenson, Tobias Ritschel, and Bernt Schiele*
- 26 A Modified Isomap Approach to Manifold Learning in Word Spotting  
*Sebastian Sudholt and Gernot A. Fink*
- 27 Offline Writer Identification Using Convolutional Neural Network Activation Features  
*Vincent Christlein, David Bernecker, Andreas Maier, and Elli Angelopoulou*

**Young Researcher Forum Posters**

- YRF3 Implicit-to-Implicit Registration for Real-Time 3D Reconstruction from RGB-D Data  
*Miroslava Slavcheva*
- YRF4 Superpixel Segmentation: An Evaluation  
*David Stutz*
- YRF5 Robot Arm Tracking with Random Decision Forests  
*Felix Widmaier*

**Nectar Track Posters**

- NT10 U-Net: Convolutional Networks for Biomedical Image Segmentation  
*Olaf Ronneberger, Philipp Fischer, Thomas Brox*

(MICCAI 2015)

- NT11 Active Learning and Discovery of Object Categories in the Presence of Unnameable Instances  
*Christoph Käding, Alexander Freytag, Erik Rodner, Paul Bodesheim, Joachim Denzler*  
(CVPR 2015)
- NT12 Ask Your Neurons: A Neural-based Approach to Answering Questions about Images  
*Mateusz Malinowski, Marcus Rohrbach, Mario Fritz*  
(ICCV 2015)
- NT13 A TV Prior for High-Quality Local Multi-view Stereo Reconstruction  
*Andreas Kuhn, Helmut Mayer, Heiko Hirschmüller, Daniel Scharstein*  
(3DV 2014)
- NT14 Human Pose Estimation with Fields of Parts  
*Martin Kiefel, Peter Gehler*  
(ECCV 2014)
- NT15 The Language of Actions: Recovering the Syntax and Semantics of Goal-Directed Human Activities  
*Hilde Kuehne, Ali Arslan, Thomas Serre*  
(CVPR 2014)
- NT16 Expanding Object Detector's Horizon: Incremental Learning Framework for Object Detection in Videos  
*Alina Kuznetsova, Sung Ju Hwang, Bodo Rosenhahn, Leonid Sigal*  
(CVPR 2015)
- NT17 Extended Pie Menus for Immersive Virtual Environments  
*S. Gebhardt, S. Pick, F. Leithold, B. Hentschel, T.W. Kuhlen*  
(IEEE TVCG 2013)
- NT18 Dyna: A Model of Dynamic Human Shape in Motion  
*G. Pons-Moll, J. Romero, N. Mahmood, M.J. Black*  
(SIGGRAPH 2015)