Sunday 29.8. (Max Planck House)

14:00 - 16:00  
**Tutorial 1: Carl Edward Rasmussen**  
Title: Gaussian Processes in Machine Learning

16:00 - 17:00  
*break*

17:00 - 19:00  
**Tutorial 2: Martin Giese**  
Title: Learning-based representation of human body movements: Studies in brains and machines

19:30  
*Registration + Get-Together, in Max Planck House*
Monday 30.8. (Kupferbau)

from 8:00 30.8. - 1.9. Registration

9:00 - 9:15 Opening

9:15 - 10:00 Olympus-Award-Presentation + Talk

10:00 - 10:30 break

10:30 - 12:00 Session 1: Learning - Chair: Joachim Buhmann
10:30 - 11:00 Predictive Discretization during Model Selection, by Steck, Jaakkola
11:00 - 11:30 Adaptive Feature Selection in Image Segmentation, by Roth, Lange
11:30 - 12:00 Semi-supervised kernel regression using whitened function classes, by Franz, Rasmussen, Schoelkopf

12:00 - 14:00 Lunch break

14:00 - 15:15 Stefan Schaal (Invited Speaker)
Title: Real-Time Statistical Learning for Humanoid Robotics

15:15 - 16:15 Session 2: Bayesian Approaches - Chair: Gerald Sommer
15:15 - 15:45 Fast Monocular Bayesian Detection of Independently Moving Objects by a Moving Observer, by Woelk, Koch
15:45 - 16:15 Kernel Density Estimation and Intrinsic Alignment for Knowledge-driven Segmentation: Teaching Level Sets to Walk, by Cremers, Osher, Soatto

16:15 - 16:30 break

16:30 - 18:00 Session 3: Vision/Faces - Chair: Hermann Ney
16:30 - 17:00 3D Head Pose Estimation with Symmetry based Illumination Model in Low Resolution Video, by Gründig, Hellwich
17:00 - 17:30 Efficient Approximations for Support Vector Machines in Object Detection by Kienzle, Bakir, Franz, Schoelkopf
17:30 - 18:00 Efficient Face Detection by a Cascaded Support Vector Machine using Haar-like Features, by Rätsch, Romdhani, Vetter

18:00 - 20:00 Dinner break

20:00 Poster Night
Tuesday 31.8. (Kupferbau)

**9:00 - 10:30**  
*Session 4: Vision/Motion - Chair: Bernd Jaehne*
- 9:00 - 9:30 Differential Analysis of Two Model-Based Vehicle Tracking Approaches, by Dahlkamp, Pece, Ottlik, Nagel
- 9:30 - 10:00 Efficient Computation of Optical Flow, by Stein
- 10:00 - 10:30 Hybrid Model-based Estimation of Multiple Non-dominant Motions, by Jacobs, Hermes, Herzog

**10:30 - 11:00**  
*break*

**11:00 - 12:00**  
*Session 5: Biologically Motivated Approaches - Chair: Walther Kropatsch*
- 11:00 - 11:30 A probabilistic measure for evaluating regions-of-interest based attention algorithms, by Clauss, Bayerl, Neumann
- 11:30 - 12:00 POI Detection using Channel Clustering and the 2D Energy Tensor, by Felsberg, Granlund

**12:00 - 14:00**  
*Lunch break*

**14:00 - 15:15**  
*Vladimir Vapnik (Invited Speaker)*  
Title: Empirical Inference

**15:15 - 15:45**  
*break*

**15:45 - 17:15**  
*Session 6: Segmentation - Chair: Friedrich Wahl*
- 15:45 - 16:15 3D Segmentation and Quantification of Human Vessels based on a New 3D Parametric Intensity Model, by Wörz, Rohr
- 16:15 - 16:45 Hierarchical Image Segmentation based on Semidefinite Programming, by Keuchel, Schnoerr, Heiler
- 16:45 - 17:15 Fast Random Sample Matching of 3d Fragments, by Winkelbach, Rilk, Schönfelder, Wahl

**17:30 - 18:30**  
DAGM-Member-Assembly (Lecture Hall Kupferbau No. 21)

**20:00**  
*Conference Dinner*
**Wednesday 1.9. (Kupferbau)**

9:00 - 10:15
*Pietro Perona (Invited Speaker)*
Title: Towards unsupervised learning of object categories

10:15 - 10:30
*break*

10:30 - 12:00
**Session 7: Object Recognition - Chair: Heinrich Niemann**
10:30 - 11:00 Invariants for Discrete Structures - An Extension of Haar Integrals over Transformation Groups to Dirac Delta Functions, by Burkhardt, Reisert, Li
11:00 - 11:30 Scale-Invariant Object Categorization using a Scale-Adaptive Mean-Shift Search, by Leibe, Schiele
11:30 - 12:00 Pixel to Pixel Matching for Image Recognition using Hungarian Graph Matching, by Keysers, Deselaers, Ney

12:00 - 14:00
*Lunch break*

14:00 - 15:30
**Session 8: Object Recognition / Synthesis - Chair: Hans Burkhardt**
14:00 - 14:30 Estimation of Multiple Orientations at Corners and Junctions, by Mota, Stuke, Aach, Barth
14:30 - 15:00 Phase Based Image Reconstruction in the Monogenic Scale Sapce, by Zang, Sommer
15:00 - 15:30 Synthesizing Movements for Computer Game Characters, by Thurau, Bauckhage, Sagerer

15:30 - 15:45
*break*

15:45 - 17:00
*William T. Freeman (Invited Speaker)*
Title: Sharing features for multi-class object detection

17:00
*Closing + Farewell Drink*