Monday, 12/Sep/2016	WORKSHOP
9:00am-18:00pm	Workshop - New Challenges in Neural Computation (NC ²)
9:00am	Opening
9:05am-10:00am	Advances in learning vector quantization Classification Margin Dependent Exploration Horizons of Prototypes for Outlier Robust Classification in Learning Vector Quantization T. Villmann, M. Kaden, A. Bohnsack Linear Supervised Transfer Learning for Generalized Matrix LVQ B. Paassen, A. Schulz, B. Hammer Relevance Learning Vector Quantization in Variable Dimensional Spaces K. Bunte, E. S. Baranowski, W. Arlt, P. Tino
10:00am-11:00am	Processing time series data Parameterized Pattern Generation via Regression in the Model Space of Echo State Networks F. Melchert, U. Seiffert, M. BiehlW. Aswolinskiy, J. Steil Symbolic Association Learning inspired by the Symbol Grounding Problem F. Raue, M. Liwicki, A. Dengel
11:00am-11:30am	Coffee break
11:30am-12:30pm	Keynote talk Representation Learning – I've heard that one before Marc Toussaint (University of Stuttgart)
12:30pm-2:00pm	Lunch Break
2:00pm-3:00pm	Keynote talk Neural Simpletrons – Minimalistic Deep Neural Networks for Probabilistic with Few Labels Jörg Lücke (University of Oldenburg)
3:00pm-4:00pm	Sampling, modelling, and optimization Unsupervised Word Discovery from Speech using Bayesian Hierarchical Models O. Walter, R Häb-Umbach Goal Babbling with Direction Sampling for simultaneous exploration and learning of inverse kinematics of a humanoid robot R. Rayyes, J. Steil Virtual optimisation for improved production planning J. Brinkrolf, T. Mittag, R. Joppen, A. Dröge, KH. Pietsch, B. Hammer
4:00pm-4:30pm	Coffee break
4:30pm-5:40pm	Computer vision and deep learning The Artificial Mind's Eye - Resisting Adversarials for Convolutional Neural Networks using Internal Projection H. Berntsen, W. Kuijper, T. Heskes Handcrafting vs Deep Learning: An Evaluation of NTraj+ Features for Pose Based Action Recognition M. Garbade, J. Gall

	Prediction for a Road Detection System J. Kreger, L. Fischer, U. Bauer-Wersing, T. Weisswange Quality Object Detection Based on Deep Learning and Context Information P. P. Fouopi, G. Srinivas, S. Knake-Langhorst, F. Köster
5:40pm-5:50pm	Nomination of the best presentation award, closing
5:50pm-6:30pm	Meeting of the GI Fachgruppe Neural Networks

Monday, 12/Sep/2016	TUTORIALS
09:00am-12:00pm	Tutorial - Embeddings and Metric Learning
09:00am-09:45am	Embeddings Talk by Zeynep Akata
09:45am-10:00am	Break
10:00am-11:00am	Applications of Embeddings Talk by Zeynep Akata (Max Planck Institute for Informatics, Saarbrucken) Practical Session by Yongqin Xian (Max Planck Institute for Informatics, Saarbrucken)
11:00am-11:15am	Coffee break
11:15am-12:00pm	Metric Learning
2:00pm-6:00pm	Tutorial – NVIDIA
	 General Overview of natural Networks Deep Naturals Networks Convolutional Neural Networks The benefit of GPUs for DNN Frameworks for deep learning on GPUs Introduction to Caffe Hands-on examples doing Digit Recognition
07:00pm	Icebreaker