

**International Workshop on Intelligent Systems and Computational Intelligence
WISCI 2018, March 22-23, 2018**

Johann Bernoulli Institute for Mathematics and
Computer Science, University of Groningen

The First International Workshop on Intelligent Systems and Computational Intelligence will present recent advances in the development, theory and application of Machine Learning. Talks will be strictly limited to 20 minutes for the presentation + 10 minutes of discussion.

Attending the workshop (or selected sessions) is free, registration is not required!

Preceding Computer Science Colloquium: Thursday, March 22

Bernoulliborg, Lecture Hall 267 (5161.0267)

16:00-17:00 **Sascha Saralajew**, Porsche AG, Weissach, Germany

Data-driven function development: A key essential for autonomous driving

Themed Sessions: Friday, March 23, Bernoulliborg, Lecture Hall 151 (5161.0151)

Session I: Feature extraction, selection and representations

08:45 - 09:00 *Opening*

09:00 - 09:30 **Christina Göpfert**, Bielefeld University, Germany

An (incomplete) survey of feature selection

09:30 - 10:00 **Jan Philip Göpfert**, Bielefeld University, Germany

Analyzing Feature Relevance for Linear Reject Option SVM using Relevance Intervals

10:00 - 10:30 **Nicola Strisciuglio**, University of Groningen, The Netherlands

Learning sound representation with trainable COPE feature extractors

10:30 - 11:00 **Break**

Session II: Astroinformatics

11:00 - 11:30 **Mohammad Mohammadi**, University of Groningen, The Netherlands

Detection of globular clusters in the halo of the Milky Way

11:30 - 12:00 **Aleke Nolte**, University of Groningen, The Netherlands

Prototype-based analysis of galaxy catalogue data

12:00 - 13:00 **Break**

Session III: Applications and Implementations

13:00 - 13:30 **Laura Fernandez Robles**, University of Leon, Spain

PipeGraph: A Python toolbox to express machine learning models using directed acyclic graphs

13:30 - 14:00 **Sascha Saralajew**, University of Applied Sciences Mittweida, Germany

Anysma: Tensor-based transition networks in Keras

14:00 - 14:30 **Sreejita Ghosh**, University of Groningen, The Netherlands

Learning Vector Quantization for the child's body and mind

14:30 - 15:00 **Break**

Session IV: Classification

15:00 - 15:30 **Marika Kaden**, University of Applied Sciences Mittweida, Germany

Learning Vector Quantization with cross-entropy for probabilistic class assignment

15:30 - 16:00 **Frank-Michael Schleich**, University of Applied Sciences Würzburg, Germany

Sparse learning models in non-metric spaces - initial results

16:00 - 16:30 **Thomas Villmann**, University of Applied Sciences Mittweida, Germany

Classification evaluation by information theoretic measures

16:30 **Closing**