

Anomaly and Change Point Detection

Thursday, September 8, 2022

DFKI, Trippstadter Str. 122, Kaiserslautern
Room 0.01 (Zuse)

13:00 Arrival and reception

14:00 Opening

Jörn Hees, DFKI, Kaiserslautern

14:15 Keynote: Deep Anomaly Detection

Marius Kloft, TU Kaiserslautern

14:45 Coffee break

15:05 Transferring Outliers from Internal to Public Dataset

Dayananda Herurkar, DFKI, Kaiserslautern

15:20 Insights into Anomaly Detection Methods

Manu Somasagar Kamalakar, Fraunhofer ITWM, Kaiserslautern

15:35 Coffee break

15:55 Anomaly Detection for Predictive Maintenance

Johannes Ehlert, esentri AG, Ettlingen

**16:10 Anomaly Detection in Variable Subsets of
Multivariate Time Series for Predictive Maintenance**

Melina Meyer, Hochschule RheinMain, Rüsselsheim

16:25 Coffee break

**16:45 Explaining Anomalies using Denoising Autoencoders
for Mixed Type Tabular Data**

Timur Sattarov, Deutsche Bundesbank, Frankfurt a. M.

17:00 Explainable Deep One-Class Classification

Philipp Liznerski, TU Kaiserslautern

17:15 Break and relocation to restaurant "Sommerhaus"

18:00 Social dinner

Friday, September 9, 2022

Fraunhofer ITWM, Fraunhofer-Platz 1, Kaiserslautern
Room E4.09 (Riemann)

9:00 Opening

Jörn Hees, DFKI, Kaiserslautern

9:15 Keynote: Anomaly Detection in Images of Materials Structures

Prof. Dr. Claudia Redenbach, TU Kaiserslautern

9:45 Coffee break

10:05 Advanced Methods for Change-Point Detection

Christof Schroth, Fraunhofer IESE, Kaiserslautern

10:20 Change-Point Problems for m -Dependent Multivariate Random Field

Duc Nguyen, Institut für Stochastik, Uni Ulm

10:35 Coffee break

10:55 Strukturbrucherkennung in kommunalen Energieverbrauchsdaten

Benjamin Adrian, Fraunhofer ITWM, Kaiserslautern

11:10 Unsupervised Anomaly Detection with Auditing Data

Ajay Chawda, Fraunhofer ITWM, TU Kaiserslautern

**11:25 Unsupervised Anomaly Detection of Implausible Electronic Health
Records: A Real-World Evaluation in Cancer Registries**

Philipp Röchner, Johannes Gutenberg-Universität, Mainz

11:40 Coffee break

12:00 Closing, feedback, next steps

12:15 End of workshop