

## **CALL FOR PAPERS**

### **Smart Data and Edge Computing for Rural Areas:**

in conjunction with the 8th IEEE International Conference on Smart Data (SmartData 2022)

August 22 - 25, 2022, Espoo, Finland

Supported by Federal Ministry of Food and Agriculture

Research Project KI-Pilot Grant number: 2820KI001

*Organized by Environmental Campus Birkenfeld of Trier University of Applied Sciences*

**Topic of the workshop:** Currently, there are many research projects and publications for the requirements regarding software tools and methods for smart data in various application areas such as industrial manufacturing or mobility and logistics. However, for the specific requirements and needs of rural areas, topics such as software platforms for smart data exchange, cloud systems, software development tools for machine learning and data analytics algorithms are currently not sufficiently researched.

**Objectives of this workshop:** This workshop addresses the particular challenges of communication technology, machine learning techniques, smart data platforms, sensor systems, and development tools for rural needs. Welcome are presentations, papers and discussion on the following topics (but not limited to):

- Edge computing for applications in agriculture
- Distributed data platforms for data sharing for training machine learning algorithms
- Software development tools for developing data analytics solutions for rural needs
- Smart contract systems for agriculture and rural areas.
- Smart sensor systems for rural areas
- Hardware solutions for edge computing
- System concepts and applications for LoRa-WAN
- Anomaly detection methods and data analytics
- Deep learning applications for rural areas
- Research demonstrators for machine learning applications for rural areas
- Apps for smart data in rural areas

### **Important dates:**

Due date for submissions: April 30, 2022

Notification of decision to authors: June 10, 2022

Camera-ready of accepted papers: June 25, 2022

Workshop: August 22-25, 2022

### **General Chair:**

- Prof. Dr.-Ing. Guido Dartmann
- Prof. Dr.-Ing. Klaus-Uwe Gollmer

### **Technical Program Committee Chairs:**

- Dr. Lejla Begic Fazlic
- Marlies Morgen
- Florian Stolz

**Submission Instructions:**

The submission link: <https://edas.info/N29463>.

The proceedings of the SmartData2022 Workshops will be published by IEEE (IEEE-DL and EI indexed) and will be made available to all conference registrants on site.

A workshop submission in PDF is limited to 6 pages following the IEEE proceedings format (or up to 8 pages with an additional charge for extra pages), including tables, figures, references and appendices.