



Contribution ID: 9

Type: **not specified**

Modelling and Machine Learning for industrial sensing applications

Friday, 8 November 2019 14:15 (15 minutes)

The Materials Center Leoben (MCL) is an internationally active research institution specialized in materials, production and processing engineering and innovative material applications. Besides a comprehensive range of services, the MCL carries out cooperative research and development projects in close collaboration with industry. The latter is the focus of my team, the embedded computing group: we support research projects along the whole product value chain from material design, to material processing and finally their use in innovative products. In this talk, I show two recent examples of my work. This includes a gas sensor device for indoor air quality control and algorithms for visual anomaly detection in semiconductor industry. The mathematics therein involve data analysis, mathematical modelling of dynamical systems, optimization, inverse problems, numerical methods and machine learning using real data from industrial sensors.

Primary author: BOIGER, Romana

Presenter: BOIGER, Romana