ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE PRESENTATION ABOUT THE WORK-PLACEMENT

Advancing Computer Vision for Dislocation Detection in SEM Imagery

Miriam Marie Dreger | University of Klagenfurt

Chaired by Albrecht Gebhardt | Department of Statistics

Wednesday, 16 July 2025 | 11:00–11:30

N.1.43

ABSTRACT

The talk will unveil the outcomes of my recent internship project, carried out within the Data Science/Math Team at KAI GmbH. The focus of this project was the application of cutting-edge computer vision methodologies for detecting dislocations in Scanning Electron Microscope (SEM) images. Through this presentation, I will not only showcase the technical strategies and tools employed - including image preprocessing, feature extraction, and detection algorithms - but also provide an in-depth look into a typical ”project flow”. From the initial idea to the development and delivery of a finished plugin, this session will highlight key milestones, challenges, and solutions encountered during the process.

We hope to see you there!