

Machine Learning Techniques in Metallographic Analysis and Alloy Development

Webinar November 17, 2020

Agenda

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|-------------|---|
| 09:00–09:10 | Opening: Welcome and Introduction to Swerim MRC program
<i>Shirin Nouhi/Fredrik Gustavsson, Swerim</i> |
| 09:10–09:35 | Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification
<i>Ignacio Arganda-Carreras, University of Basque Country</i> |
| 09:35–10:00 | Metals characterization using deep learning image analysis
<i>Sammy Nordqvist, SciSpot: MIPAR representative</i> |
| 10:00–10:10 | Short break |
| 10:10–10:35 | ZEN – Open Ecosystem for integrated Machine-Learning workflows
<i>Sebastian Rhode, ZEISS</i> |
| 10:35–11:00 | Apeer – Open Cloud-based Platform for Image-Processing and Machine-Learning
<i>Simon Franchini, ZEISS</i> |
| 11:00–11:10 | Short break |
| 11:10–11:35 | Effective classification of microstructures via the application of machine-learning to EBSD data
<i>Patrick Trimby, Oxford Instruments</i> |
| 11:35–12:00 | Machine Learning for Alloy Development
<i>Josh Green, Citrine Informatics</i> |
| 12:00–12:25 | Overview of ESTEP webinar: Impact and opportunities of Artificial Intelligence in the Steel Industry
<i>Shirin Nouhi, Swerim</i> |
| 12:25–12:30 | Closing of the webinar |