Invitation to the 84. AMAP Colloquium

Presentation by

Dr. Rudolf Felix

PSI FLS Fuzzy Logik & Neuro Systeme GmbH

and Luc van Nerom

PSI Metals

Enhancing Manufacturing Execution Systems with Artificial Intelligence: A Collaborative Framework for Process Optimization

on Thursday, **_February 22nd, 2024 at 4.00 pm_**
with subsequent discussion <u>at AMAP</u>

All interested persons are sincerely invited to the AMAP foyer.
Snacks and refreshments will be available.

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Enhancing Manufacturing Execution Systems with Artificial Intelligence:
A Collaborative Framework for Process Optimization

Dr. Rudolf Felix (PSI FLS Fuzzy Logik & Neuro Systeme GmbH)
and Luc van Nerom (PSI Metals)

Abstract

The convergence of manufacturing execution systems (MES) and artificial intelligence (AI) frameworks has emerged as a pivotal force in driving operational excellence and transforming manufacturing strategies. By leveraging AI's predictive capabilities, MES systems can proactively identify potential production disruptions, enabling timely process intervention, reducing quality failures and minimizing downtime.

The collaboration of MES and AI frameworks represents a transformative step towards achieving Industry 4.0 principles. By harnessing the strengths of both technologies, metals producers can achieve unprecedented levels of operational excellence, quality, and responsiveness, putting them at the forefront of sustainable success in the ever-evolving manufacturing landscape.

The collaborative framework approach for process optimization combines the deep aluminium industry expertise of PSI Metals NF with the powerful tool PSI Qualicision AI and thus enables metals producers to unlock significant production efficiency gains and profitability enhancements.