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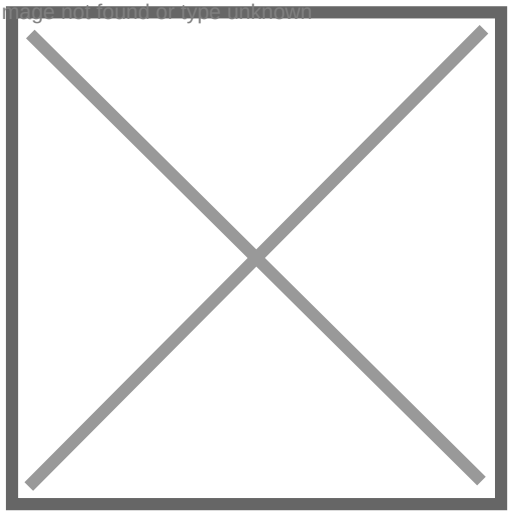

DT-SPIRE-06-2019

FACTLOG

Full Title: Energy-aware Factory Analytics for Process Industries

Aim:

Cognition can improve the behavior of a complex process system and FACTLOG offers a real-time processing layer where observations, knowledge and experience interoperate to understand and control the behavior of a complex system for several process industries.

Concept:
FACTLOG is driven by several specific business cases in the process industry and focuses in innovation about Analytics, AI and Optimization on the Deployment and Assessment of coherent Enhanced Cognitive Twins for the specific sectors represented in the project. By incorporating different pipelines of machine learning and analytical tools at different levels, FACTLOG enables the realisation of the Cognitive Factory as an ensemble of independent but intertwined ECTs, that are (i) able to self-learn, and thus to effectively detect and react to anomalies and disruptions but also to opportunities that may arise, (ii) enjoy a local or global view of operations and (iii) are capable for short-, mid- and long-term reasoning and optimization.

Start date:
01/11/2019

End date:
30/04/2023