

OnDaA

On-line Predictive Analytics In Continuous Casting



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MOTIVATION & GOALS

Identification of correlation based on process parameters

- Pattern extraction from time series
- Classification model for predicting dynamic phenomena from mold level fluctuation sensors
- No labelled cases available
- Visual analytics on large streams of time-series data

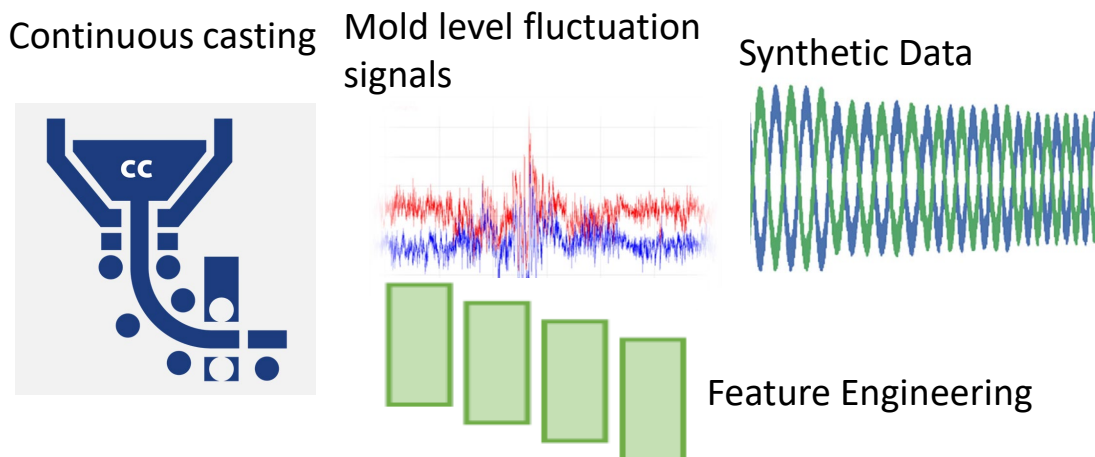
Project FactBox

Project Name OnDaA
Project ID MFP 3.1-3
Duration 23 Months

Area 3
Cognitive Decision Support

Project Lead
DI Heimo Gursch

APPROACH



CONTRIBUTION

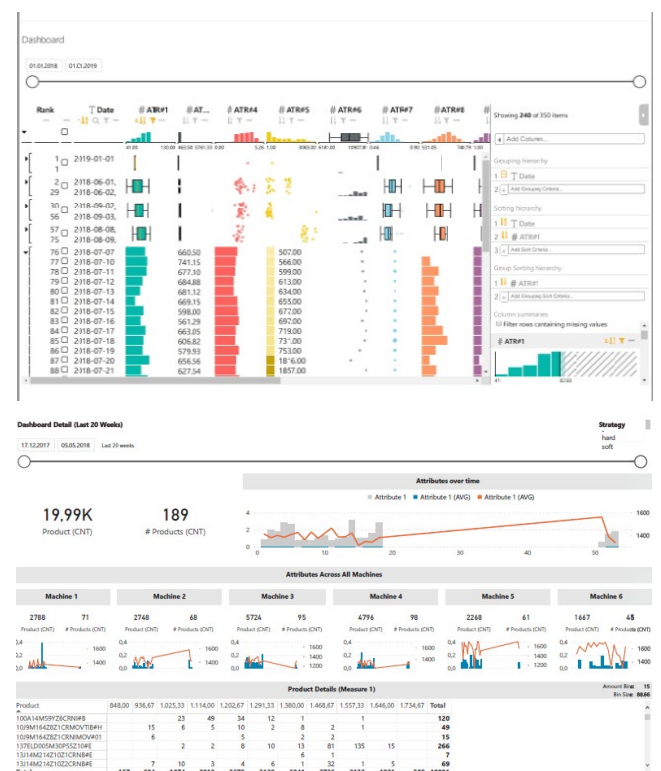
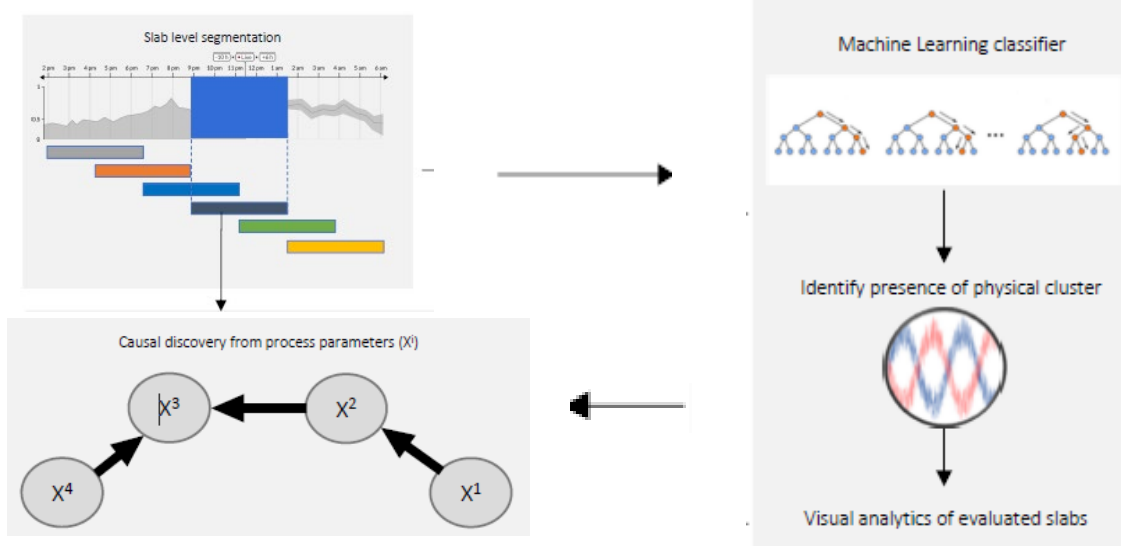
Scientific contribution

Identified specified phenomena and their influence on each slab
Forecast intensity of critical phenomena within each slab
Development of visual analytics application in Microsoft Power BI
Development of custom visual for exploring ranking of items based on a set of heterogeneous attributes

Economic contribution

Delivered a fully functional visual analytics prototype for gaining insights into the process
Through our predictive analytics tool downtime or shutdown of the process can be prevented and even eliminated

ANALYTICS FRAMEWORK



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EINEN SCHRITT VORWAUS.

