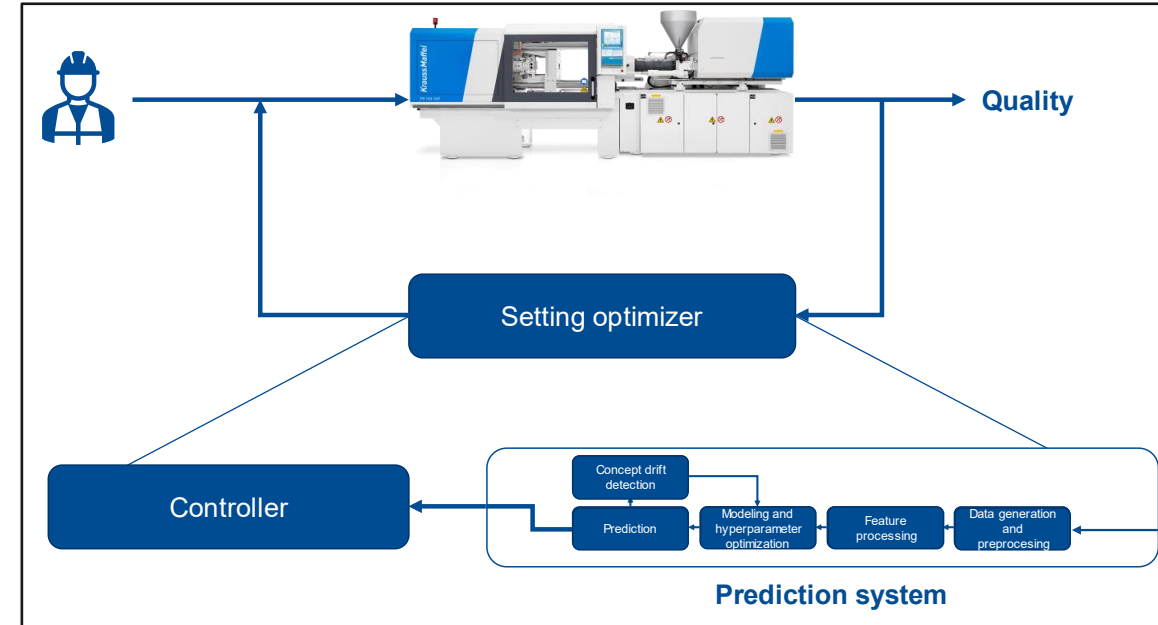## Design and development of robust and holistic quality prediction and control in injection molding using machine learning

Problem

- Injection molding process subject to internal and external disturbances
- 100% quality recording inefficient→ quality prediction
- Reduction of the resources required for model building

Objective

- Use of machine learning methods for quality prediction and control
- Use of simulation data to reduce data collection effort
- Model transfer from existing prediction models
- Fully automated and holistic system solution

Quality

Setting optimizer

Controller

Concept drift detection

Prediction | Modeling and hyperparameter optimization | Feature processing | Data generation and preprocesing

Prediction system

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