

Künstliche Intelligenz & Digitalisierung

1. Jahr 2. Jahr

3. Jahr

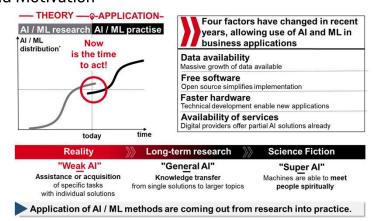


Künstliche Intelligenz im Einkauf

Zielbild und Motivation

In alignment with the Strategy 2030, purchasing can be recognized as innovation leader, utilizing the potential of digitization.

→Use cases of are identified, structured, and simply tried out in this Ph.D. project. What works can be can be scaled, if not that can be found out early without great costs.



Methode und Vorgehensweise



Reviewed 210 publications based on the strategic, tactical and operational level of procurement and according to the ACM framework from computer science.

The resulting 11 clusters were accessed by 20 experts of the procurement domain and information technology within and outside the VW Group highlighting cost analysis.

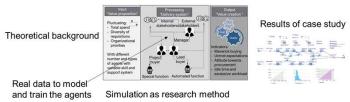
Weitere Schritte

A simulation study is currently set up to model the procurement organization and process flow as digital twin utilizing a bundling generator as module to propose bundling options across the organization.

→Interesting application for process conformity and optimization.

Research question: How to optimize procurement value creation through simulation?

Preposition I: The sizing problem can be solved by optimizing the value function Preposition II: Simulation shows flexibility value, e.g., through lean and agile principles Dynamic system with feedback loops



Interesting opportunity for a technical and business oriented master thesis ©

Design a prototype of a simulation-based procurement workflow system.

Betreuung Porsche: MBA Thomas Pichler



Jan Martin Spreitzenbarth

Betreuung Universität: Prof Dr.

Heiner Stuckenschmidt