

Topic: AI-Induced Changes of Processes and Organizational Structures in Technology Management

Start: Immediately (duration approx. 5-6 months)
Location: Flexible
Supervisors: DI Dr.techn. Thomas Draschbacher

PROBLEM DEFINITION / GOAL:

Artificial Intelligence (AI) is a general purpose technology that affects almost every aspect of Technology Management: It changes the way how companies identify, select, and develop technologies. While the general impact of AI on technology management is broadly recognized, the exact implications are less well understood.

This thesis has the goal to develop an overview of the most important AI-induced changes in technology management with a particular focus on the following areas:

- Processes: How can companies apply AI technologies to increase the efficiency and effectiveness of their processes in the identification and development of technologies?
- Organization: How do the required roles, organizational competences and individual skillsets change due to the application of AI in these processes?

These questions should be answered through a systematic literature review and semi-structured interviews.

TASKS:

- Build up an understanding of the most important processes and organizational questions of technology management
- Conduct a systematic literature review to collect AI-induced changes in technology management described in the scientific literature
- Conduct semi-structured interviews to validate and complement the findings from the systematic literature review
- Summarize the findings in a report and a master thesis

Requirements: Courses General Management and Organisation, Business Model Management, and Technology Management desired but not mandatory

Field of Study: preferably Mechanical Engineering and Business Economics, Production Science and Management, or Software Engineering Management

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Curious? To apply for this master thesis, please send us your detailed application (CV & Transcript of Records) via e-mail. We are looking forward to your application!