Institut für
Integrierte Produktion Hannover

Master thesis

Knowledge-Based Derivation of Application-Specific Measures

To lower the barriers to the implementation of AGVs in SMEs, the FTS-Ready project aims to develop a method based on a maturity model (MM). The MM assesses, based on the existing infrastructure, the extent to which SMEs meet the requirements for implementing AGVs and identifies any measures that need to be implemented beforehand. Furthermore, the method includes a decision-support tool designed to propose a vendor-neutral AGV solution based on given logistical requirements. The entire method is implemented in a software demonstrator.







Your tasks

- Structured research on prerequisites, maturity gaps, and measures related to the planning, implementation, and operation of AGVs, as well as on knowledge-based decision-making approaches
- Formalization of a suitable input and output format, including application scenarios, AGV technology class, prerequisites, current capability level, target capability level, and measures
- Development of a source-based catalog of measures, including their association with prerequisites, triggers, target states, dependencies, and validity conditions
- Identification of possible inference methods
- Definition of selection criteria and criteria-based selection of methods
- Prototype implementation of the selected inference logic, including clear justification and references to the sources of the generated actions
- Evaluation based on AGV application scenarios and defined maturity gap analysis

Your profile

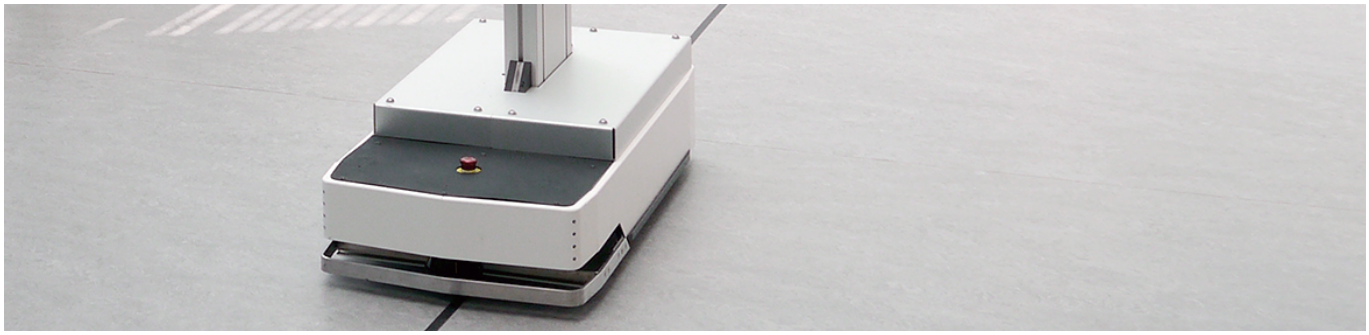
You are studying one of the following subjects:

- Mechanical Engineering
- Mechatronics
- Industrial Engineering
- Sustainable Engineering
- Production and Logistics
- or a related field

You are interested in automation, data, etc., and are able to come up with good solutions on your own. Some experience with data analysis and software development is a plus. Good written and spoken German or English skills are required for the job.

We offer

- Independent work
- Flexible work hours
- Well-equipped workstations
- Work from home by arrangement
- Conducting experiments
- Long-term collaboration, if applicable



Bitte sende deine aussagekräftige Bewerbung in einer einzigen PDF-Datei an jobs@iph-hannover.de.

Die Bewerbung muss Anschreiben, Lebenslauf sowie Prüfungsleistungen des Studiums / Zeugnisse enthalten.

Contact



Alexander Poschke
M.Sc.

+49 (0)511 279 76-229

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IPH – Institut für Integrierte Produktion Hannover gGmbH
Hollerithallee 6
30419 Hannover

www.iph-hannover.de