



Consistent Goal-Modeling in the Early Phases of Factory Planning

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Background Information

In the context of designing the factory of the future, it is important to efficiently capture and manage the requirements as early as possible in the design process. In a next step suitable indicators for their assessment shall be assigned and target values have to be defined. In the context of the factory planning process the defined target values serve as the goals that shall be reached in the end.

In order to reach a useful output that mets all pre-defined target values, a consistent goal-modelling plays a crucial role. The definition of consistency-rules is seen as a good starting point, but the creation of these rules has to be seamlessly integrated in the distributed, iterative and creative process of factory planning. Generally, this work aims at a review of existing solutions for this problem and at an application of the most prospective approach in the context of the development of a new production system.

Workpackages

- get familiar with related literature
- review methods related to consistent goal-modeling (focus on rule-based approaches)
- analyze which methods are the most prospective ones within the context of factory planning
- identify
- · set up an example that demonstrates your findings
- documentation, mid-term and final presentation

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