

54<sup>th</sup> CIRP Conference on Manufacturing Systems

## Determine similarity of assembly operations using semantic technology

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### Abstract

Dealing with increasing product variants, workers can adapt to changing tasks after a learning process. Frequent changes of product variants imply risk of early termination of learning curve. A decisive option is the consideration of similarity of assembly operations supporting experiential learning. The similarity is determined by *used tool*, *joining technology* and *subsequent steps*. Currently, no objective quantified measurement method exists. In the paper at hand, a suitable semantic approach is selected and implemented in a similarity graph. The application of the selected approach is validated in a case example of the assembly of a throttle valve.

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Peer-review under responsibility of the scientific committee of the 54<sup>th</sup> CIRP Conference on Manufacturing System

*Keywords:* Semantic technologies; Semantic similarity; Assembly operations;

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