This paper presents an approach to enable automatic identification and generation of operation strategies for field-level automation software of manufacturing systems. Contrary to the traditional way of implementing field control software, we suggest the modelling and implementation of machine capabilities as basic operations. Driven by the idea to describe what a system is able to do in contrast to traditional formulation of processes in automation software engineering, it is possible to derive necessary sequences of control operations automatically. This results in a framework for automatic generation of such operation strategies to limit the re-engineering effort of field-level automation control software in case of changed requirements caused by modifications of the technical system.
Occurences:

· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Automatisierung und Informationssysteme (Prof. Vogel-Heuser) > 2012

entries: