

**Call for Papers**  
**SS12 - Automation of Automation**

**Organized and Co-Chaired by**

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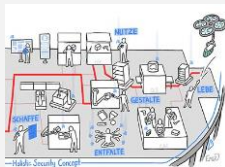
❖ **FOCUS.** In this Special Session we will focus on methods, tools and technologies aimed at the reduction of lead time and engineering effort for designing, implementing or adapting a production line for new products, product variants or higher/lower production volumes.

❖ **TOPICS**

- ❖ Manufacturability of products in general and w.r.t. specific production systems
- ❖ Discovery of resource skills/capabilities, as well as asset management
- ❖ Capability-based resource selection and task assignment
- ❖ Generation of cell layouts and AGV transportation routes
- ❖ Scheduling of production and logistic jobs
- ❖ Generation of executable control programs
- ❖ Coordination and orchestration of production and logistic agents
- ❖ Usage of Machine Learning for robot programming
- ❖ Automated risk assessment and CE declaration

**Examples for »Automation of Automation« (not exhaustive)**

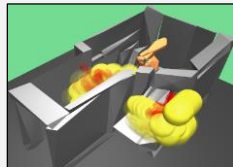
Utilization optimized matrix production



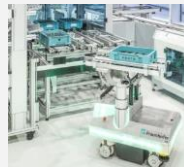
Automated layout generation



Automated risk assessment



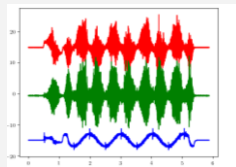
Automated material flow with AMR



Self-configuring bin picking



Self-optimization of process parameter



❖ **AIM.** The aim of the Special Session is to bring together researchers and practitioners from industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of "Automation of Automation"; both on a conceptual/planning level, as well as on deployment/ execution level.

❖ **CONFERENCE FORMAT.** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.

❖ **AUTHOR'S SCHEDULE (2022)**

❖ **Regular and special sessions papers**

Submission deadline ..... April 1  
Acceptance notification ..... May 6  
Deadline for final manuscripts ..... June 17

❖ **Work-in-progress/Industry practice papers**

Submission deadline ..... May 13  
Acceptance notification ..... June 10  
Deadline for final manuscripts ..... June 17