Abstract:

Various roadmaps concerning research and developments for future factory automation conclude that both information and communication will be key issues for future production systems. These visions imply architectural shifts and, hence, the roadmaps envision (production) systems being able to flexibly adjust their behaviour to changing conditions. This implies changing business conditions, e.g. changing demand or product portfolio, and technical conditions, e.g. technical faults. They provide novel, sophisticated mechanisms, which are enabled by the availability of communication and realized by the significantly increased intelligence of computing entities. One means in order to realize these visions are agent-based technologies. Nevertheless, existing agent platforms are either following the heavyweight FIPA standard or implemented in high-level languages not supported by every micro controller. Therefore, a lightweight platform for realizing agent-based cyber-physical production systems (CPPS) is required, which is introduced in this presentation.
Occurences:

· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Automatisierung und Informationssysteme (Prof. Vogel-Heuser) > 2014

entries: