

R&D: Research projects for the fourth industrial revolution

AUTONOMIK—Optimised planning and control of very small series production


As part of our series on research projects regarding Industry 4.0, we present the second out of five: AUTONOMIK—KPI-managed optimisation of production planning and control of small-series by means of fuzzy logic.

Small-series manufacturing requires a radical new approach for lean production planning. The project, funded by the German Federal Ministry for Economic Affairs and Energy, favours decentralised, highly flexible material flow units realised by cyber-physical systems (CPS) that perceive their surroundings by means of intelligent sensors.

A new planning methodology is under development, as are an operating concept for



decentralised very small-series production of electric vehicles, a control concept for

CPS for automotive production and material supply, a monitoring and assistance system for early fault detection and a simulation system for production control. 

►Your contact

Dr. Rudolf Felix

Managing Director

*F/L/S Fuzzy Logik Systeme GmbH, Dortmund,
Germany*

Phone: +49 231 9700-920

rfelix@psi.de

www.fuzzy.de