

Weihnachten 2018



Highlights

- Jahrgang AU18 Studiengangs AuTec
 - 75 Studierende (größter SG im FB: INW)
 - 10 Dozenten
 - 7 Akademische Mitarbeiter
- Ausbau der Technika (T-PPA/EAM/RT)
- Konferenzen: xPlore, AALE, InnoTesting, i-ESA
- Solarboot SUNcaTcher: 2x1. Platz + 2. Platz Wildau
- Projekte:
SmCoCo, SPICE, HFB, TelHydrA, LTAfit, vaionic, InnoHub13
- Erster Jahrgang im Studiengang AEM



HANNOVER MESSE

Industrial Automation
Internationale Leihmesse für Fertigungs-
maschinen



- Global Business & Markets (Halle/Hall 3)
- job and career (Halle/Hall 13)
- Tec2You (Pavillon/Pavilion 1)
- Robotation Academy (Pavillon/Pavilion 36)
- Eingang Entrance
- IC Informations-Centrum Information Center
- CC Convention Center
- MN Haus der Nationen House of Nations
- PC Presse-Centrum Press Center
- IC 4.0 Informations-Centrum 4.0



world's first truly collaborative dual-arm robot







Leben im Studiengang





TH Wildau– Regatta
2. Platz (08.09.2018)



IPK - Business Game 2018



 **Fraunhofer**
IPK

FRAUENHOFER-INSTITUT FÜR PRODUKTIONSANLAGEN UND KONSTRUKTIONSTECHNIK IPK

Teilnahmebescheinigung

Jörg Reiff-Stephan

hat am 23. August 2018 an dem
Unternehmensplanspiel LIFE1
erfolgreich teilgenommen.

Themen:

- Serious Games für die integrierte Fabrikplanung
- Interdisziplinäre Zusammenarbeit
- Grundlage zum modellbasierten Engineering

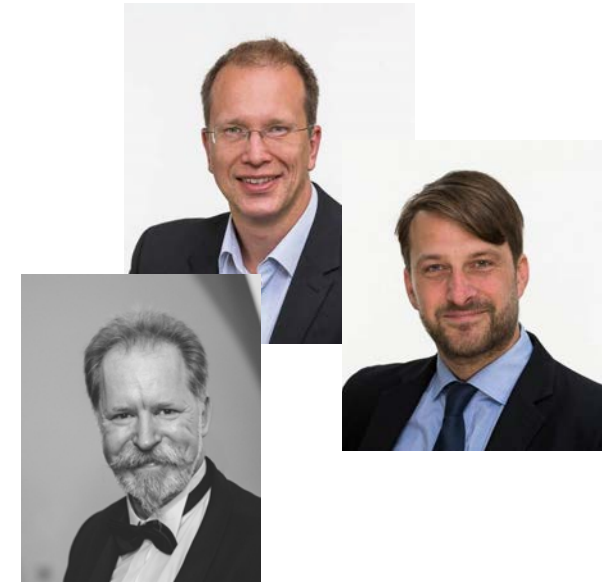


Berlin, den 24. August 2018


Prof. Dr.-Ing. Th. Klotze, Fraunhofer IPK



- **Prof. Dr. Jörg Reiff-Stephan**
Automation Technology
- **Prof. Dr. Rainer Stollhoff**
Data Science (Statistical Learning, Analytics)
- **Prof. Dr. Alexander Stolpmann**
Image Processing



Research Engineers at iC3@AI/ML

- Kay Ritzmann M.Eng.
- Sebastian Schulz M.Eng.
- Ron van de Sand M.Eng.



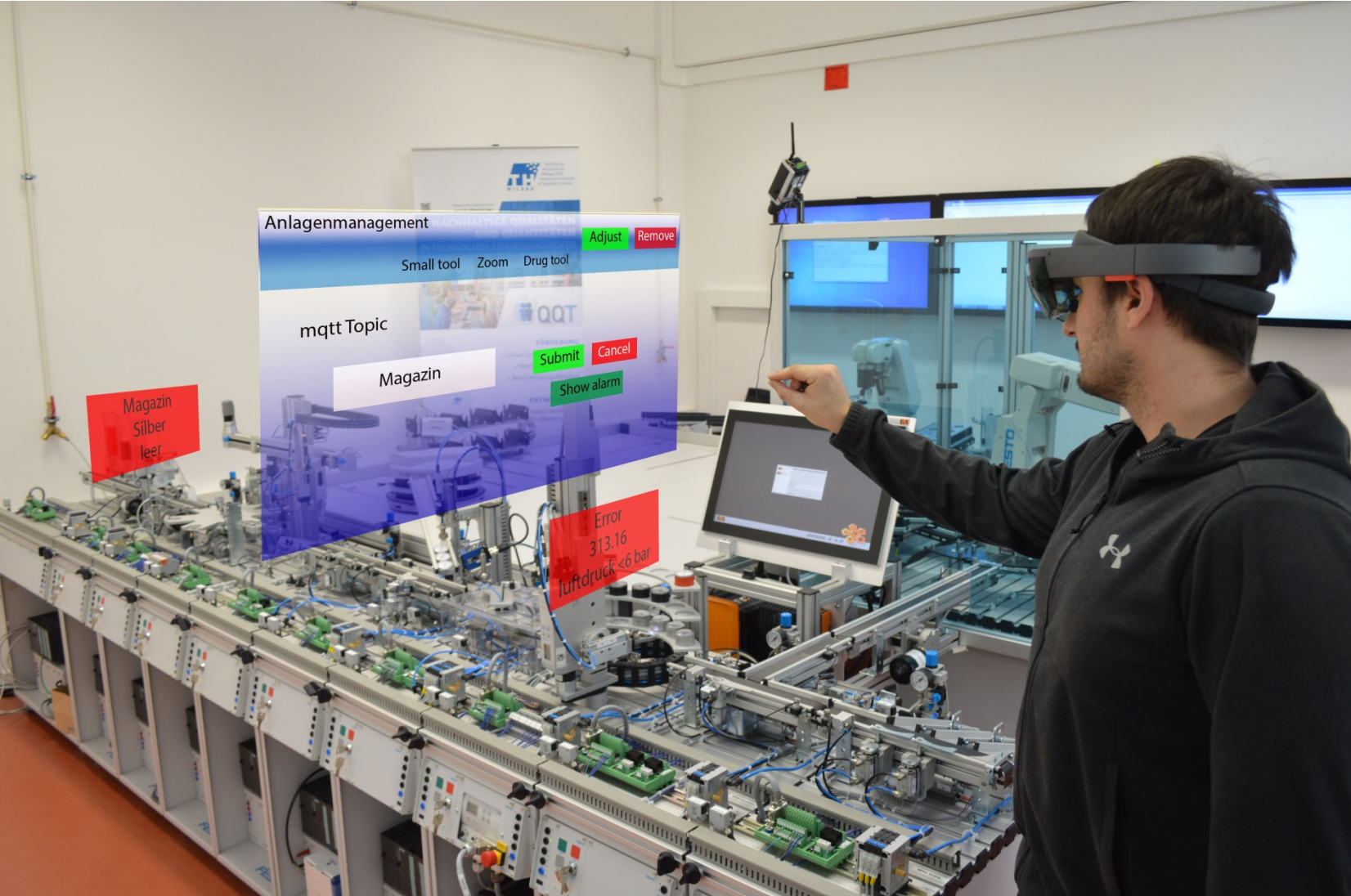
Smart Factory // Advanced Manufacturing

Shop floor IT in CPPS



- "Advanced manufacturing centers upon improving the performance of US industry through the innovative application of technologies, processes and methods to product design and production."(TNTECH.EDU)
- White House and states: "A concise definition of advanced manufacturing offered by some is manufacturing that entails rapid transfer of science and technology (S&T) into manufacturing products and processes." (PCAST, April 2010)

Augmented Reality for Production Applications

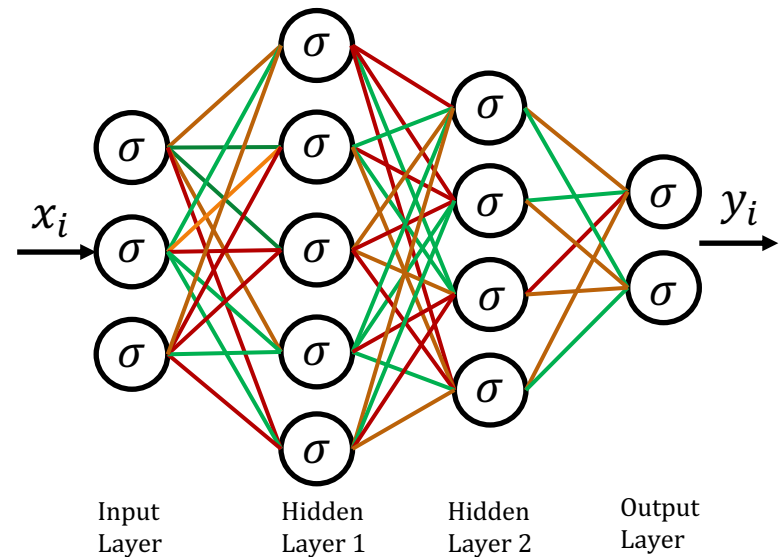
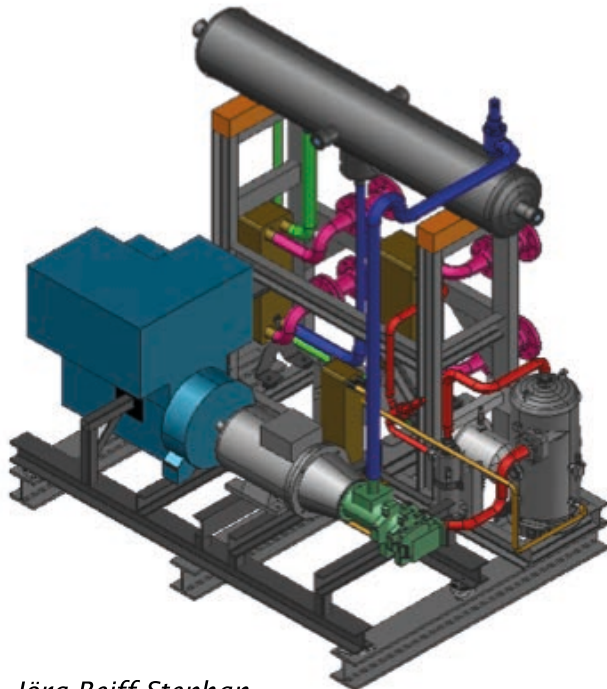


SmCoCo – Smart Cooling Control

SME .. pakt, Potsdam → Approach: multilayer perceptron (MLP)

Features of the new Refrigeration Plant System:

- fully automated **plant monitoring**
(self-monitoring, DB-based, trend analysis)
- **time reduction of inspections** up to 60%
- **improving the plant availability** due to reduced disturbances as a result of predictive maintenance control
- **energy savings** due to weather based predictive models



Approach: multilayer perceptrons

Herzlichen Dank und ein frohes Weihnachtsfest

Unser iC3-„Aufbau“-Team:

- Christopher Brüllke
- Norman Günther
- Oliver Jander
- Noreen Koch
- Andreas Krispin
- Bernd Kukuk
- Andy Langer
- Md. Niaz Morshed
- Prof. Jörg Reiff-Stephan
- Kay Ritzmann
- Prof. Jens Rüdiger
- Md. Jewel Samsuddoha
- Samar Samara
- Ulrich Schauer
- Sebastian Schulz
- Prof. Alexander Stolpmann
- Ron van de Sand
- Sonja Wallschlag

