


Personendetailseite LSF Cache

Prof. Dr.-Ing. Stefan Junk

Room: 2.02
Klosterstraße 14
77723 Gengenbach

 07803 9698-4421

 stefan.junk@hs-offenburg.de

 by appointment

Function

- Bachelorstudiengang
Wirtschaftsingenieurwesen
WI,
Praktikantenamtsleiter*in
- [Fakultät Betriebswirtschaft
und
Wirtschaftsingenieurwesen
\(B+W\)](#), Prodekan*in
- [Fakultät Betriebswirtschaft
und
Wirtschaftsingenieurwesen
\(B+W\)](#), Professor*in
- Institut für Angewandte
Forschung, Mitglieder IAF

Lectures (current and previous semester)

- Computer Aided
Engineering (CAE),
B+W0322
- Computer Aided
Engineering 2, B+W1309
- Maschinenelemente,
B+W0328
- Neue Technologien 2,
B+W1301
- Workshop Rapid
Prototyping, B+W1003w

Tasks

Leiter Labor Rapid Prototyping,
Rapid Tooling und Reverse
Engineering

Office hours

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Curriculum Vitae

Academic Career

Mitglied des International Programme Committee der SDM'2016:

International Conference on Sustainable Design and Manufacturing, Chania, Crete, Greece, 4-6 April 2016

Professur für Computer Aided Engineering CAE und Rapid Prototyping (seit März 2013)

Professur für Maschinenelemente und Computer Aided Engineering CAE (bis Februar 2013)

davor:

Entwicklungsingenieur bei EBERSPÄCHER Abgastechnik in Neunkirchen

- Simulation von Umformprozessen (Tiefziehen, Rohrbiegen, IHU)
- Einsatz neuer Werkstoffe und Halbzeuge (Tailored Blanks, Titan)

Wissenschaftlicher Mitarbeiter am Lehrstuhl für Werkstofftechnologie/ Präzisionsformgebung der Universität des Saarlandes

- Leitung von Forschungsprojekten für öffentliche und industrielle Auftraggeber (DFG, FOSTA, BMW, Airbus)
- Promotion bei Prof. Dr.-Ing.

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Hirt (heute Institutsleiter
IBF an der RWTH Aachen)

- Dissertation: „Inkrementelle Blechumformung mit CNC-Werkzeugmaschinen: Verfahrensgrenzen und Umformstrategien“

Studium: **Konstruktions- und Fertigungstechnik (CAD/CAM)** an der Universität des Saarlandes, Saarbrücken

Ausbildung:
Werkzeugmechaniker,
Stanz- und
Umformtechnik, DIEHL,
Wehrtechnik, Mariahütte

Publications

Books and Publications

Junk, S./Matt, R.:
Workshop Digital Manufacturing - A New and Practical Approach to Combine CAAD and Digital Manufacturing, in:
Architectural Design Education - Martens, B./Wurzer, G./Grasl T./Lorenz, W./Schaffranek, R. (eds.), Real Time - Proceedings of the 33rd eCAADe Conference - Volume 2, Vienna University of Technology, Vienna, Austria, 16-18 September 2015, pp. 103-110

Junk, S./Matt, R.:
New Approaches to Teaching Design for Additive Manufacturing,
Proceedings of the 20th International Conference on Engineering Design (ICED 15) Vol 11: Human

Behaviour in Design,
Design Education; Design
Society, 2015, pp. 257-266

Junk, S./Matt, R.:
**Additive Manufacturing
of High-Strength
components using
impregnated polymer
plaster composites**, 20th
Symposium on
Composites - Wien, in:
Materials Science Forum,
Volume 826, 2015,
TransTech Publications,
Pfaffikon, Schweiz, pp.
763-770

Junk, S./Schrock, S.:
**A Benchmark of Service
Providers in Additive
Manufacturing**, 3rd
Annual International
Conference on Industrial,
Systems and Design
Engineering, Athens,
Greece, 22 - 25 June 2015

Junk, S./Matt, R.:
**Workshop Rapid
Prototyping - a new
approach to introduce
Digital Manufacturing**,
engineering education
Proceedings of 14th
International Conference
on Information Technology
Based Higher Education
and Training, ITHET, IEEE
Xplore, Lisbon, Portugal,
2015, pp. 1-6

Junk, S./Matt, R.:
**Investigation of
Influencing Variables on
Sustainability of 3D-
Printing and Fused
Deposition Modelling**
Proceedings of 2nd
International Conference

on Sustainable Design and
Manufacturing, Sevilla,
Spanien, S. 1-12

Junk, S./Matt, R.:

**New Approach to
Introduction of 3D Digital
Technologies in Design
Education**, CIRP 25th
Design Conference
Innovative Product
Creation, Haifa, Israel,
2015

Böhnke, D./Junk, S.: 3D
Printing:

**New Opportunities for
the Creative Industries**,
Inside 3D Printing
Conference and Expo,
Berlin, 2015

Junk, S./Matt, R.:

**New Infiltration
Technology for Additive
Manufacturing of High-
Strength Components
Using 3D-Printing**,
Materials Science and
Engineering MSE 2014,
Darmstadt, 23. -25.09.2014

Junk, S./Matt, R.:

**New Approaches to the
Application of Additive
Manufacturing and
Reverse Engineering in
Design Education**, in:
Laakso, M. and Ekman, K.
(Editors): Proceedings of
NordDesign 2014
Conference, Aalto Design
Factory, Aalto University,
Aalto, Finland 2014, ISBN
978-1-904670-58-2, pp.
105-115

Junk, S./Schrock, S.:

**Price and quality
benchmark of 3D-Printing
service providers**, in:

Proceedings of AEPR'14,
19th European Forum on
Rapid Prototyping and
Manufacturing, Paris,
2014, pp. 1-11

Junk, S.:

**Innovationsturbo 3D-
Druck: Rapid Prototyping
| Kleinserie | neue
Geschäftsmodelle,
Unternehmen Zukunft -
Mittelstand 2014**, Messe
Offenburg, 15. 07. 2014

Junk, S.:

**New approach in design
education using additive
manufacturing**, in:
Marjanovic D. et al. (Ed.):
Proceedings of 13th
international Design
Conference, DESIGN 2014,
Cavtat (Kroatien), 2014, pp.
1391-1398

Junk, S.:

**Investigation of Materials
and Consumption
Characteristics in
Additive Manufacturing
Using Fused Deposition
Modeling**, Proceedings of
Fraunhofer Direct Digital
Manufacturing
Conference DDMC, Berlin,
2014

Junk, S./Côté, S.:

**Additive manufacturing
of architectural models
using Fused Layer
Modeling and 3DPrinting**,
in: Bártolo et al. (Eds):
High Value Manufacturing:
Advanced Research in
Virtual and Rapid
Prototyping - Proceedings
of the 6th International
Conference on Advanced
Research in Virtual and

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Rapid Prototyping, 2013,
pp. 623-628

Junk, S./Côté, S.:
Influencing variables on sustainability in additive manufacturing, in: Bártolo et al. (Eds): Green Design, Materials and Manufacturing Processes, Taylor & Francis Group, London, 2013, pp. 167-172

Junk, S./Côté, S.:
New Methods for the Rapid Prototyping of Architectural Models, in: Computation and Performance – Proceedings of the 31st eCAADe Conference, 2013, Vol. 2, pp. 397-404

Junk, S./Taleb-Araghi, B.:
New Developments in Rapid Tooling Using 3D-Printing with Plaster Powders, Fraunhofer Direct Digital Manufacturing Conference, DDMC, Berlin, 2012

Junk, S./Taleb-Araghi, B.:
Schnelle und günstige Herstellung von Versuchswerkzeugen für den Leichtbau durch 3D-Drucken mit Kunststoffpulvern (Low Cost Rapid Tooling), Europäische Forschungsgesellschaft für Blechverarbeitung e.V.: EFB-Kolloquium: „Produktionssysteme und -methoden für den Leichtbau - Wegbereiter zur E-Mobilität“, Bad Boll, 2012

Junk, S./Wagner,
R./Tränkle/M. & Côté, S.:
**Rapid tooling in metal
forming processes using
3D-printed tools**
Proceeding of the 5th int.
conference on advanced
research in virtual and
rapid prototyping VRAP,
Leiria (PT), 2011, published
in: "Innovative
developments in virtual
and physical prototyping",
2011, P.J. Bártolo et al.,
published by Taylor &
Francis.
ISBN 978-0-415-68418-7

Junk, S./Tränkle, M.:
**Design for Additive
Manufacturing
technologies: New
Applications of 3D-
Printing for Rapid
Prototyping and Rapid
Tooling**
ICED, International
Conference on
Engineering Design,
Copenhagen (DK), 2011,
published in: Proceedings
of the 18th International
Conference on
Engineering Design (ICED
11), Impacting Society
through Engineering
Design, Vol. 5: Design for X
/ Design to X, 2011, Culley,
S.J.; Hicks, B.J.; McAloone,
T.C.; Howard, T.J.;
Malmqvist, J. (eds.)
ISBN 978-1904670254

Junk, S./Sämann-Sun,
J./Niederhöfer, M.:
**Application of 3D Printing
for the Rapid Tooling of
Thermoforming Moulds**

MATADOR 2010, 36th
International MATADOR
Conference, Manchester
(UK), 2010

Junk, S.:

**Neue Möglichkeiten in
der Produktentwicklung
durch 3D-Drucken und
3D-Scannen**

Forschungsbericht 2010
der Hochschule
Offenburg, Offenburg,
2010

Junk, S./Sämann-Sun, J.:

**Application of 3D colour
printing for the rapid
prototyping of functional
models**

VRAP, Int. Conf. on
Advanced Research in
Virtual and Rapid
Prototyping, Leiria (PT),
2009