

Institute for Production and Information Technology

Allgäu Research Centre / Kempten University of Applied Sciences

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The Institute for Production and Information Technology (IPI) is an application-orientated research institution between science and industry. The IPI carries out research and development projects in the context of digitalisation in production and supports companies on their way to "Industry 4.0". The IPI is integrated into Bavaria's high-tech agenda and digitalisation strategy.

Virtual mapping of process chains in the digital twin and development of corresponding assistance systems.

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Germany

www.hs-kempten.de/forschung/forschungsinstitute/ipi-institut-fuer-produktion-und-informatik/ipi-institut-fuer-produktion-und-informatik



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a

Main areas covered

Digital twin, Virtual commissioning, Topology optimisation, Additive manufacturing, Lightweight design methods

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Training, Testing and trials, Simulation, Technology transfer	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Optimisation, Processes	✓	✓	
Plant construction & automation Automation technology, Others (AI)	✓	✓	
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...)	✓	✓	
Coating (surface engineering) Others (Radiant surface finishing)	✓	✓	
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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