

Prof. Dr. Jutta Geldermann



Prof. Dr. Jutta Geldermann has been professor of Business Administration and Production Management at the University of Duisburg-Essen since 2018.

After her diploma degree in Industrial Engineering, obtaining her doctorate and postdoctoral lecturing qualification at the University of Karlsruhe (now KIT - Karlsruhe Institute of Technology), she was chair holder and professor of Production and Logistics at the Georg-August-University of Göttingen from 2007 to 2018. She has successfully acquired and conducted more than 40 research projects funded by industry, German Research Foundation (DFG), Volkswagen Stiftung, the European Union (EU) and various ministries.

Contact

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Production Management***

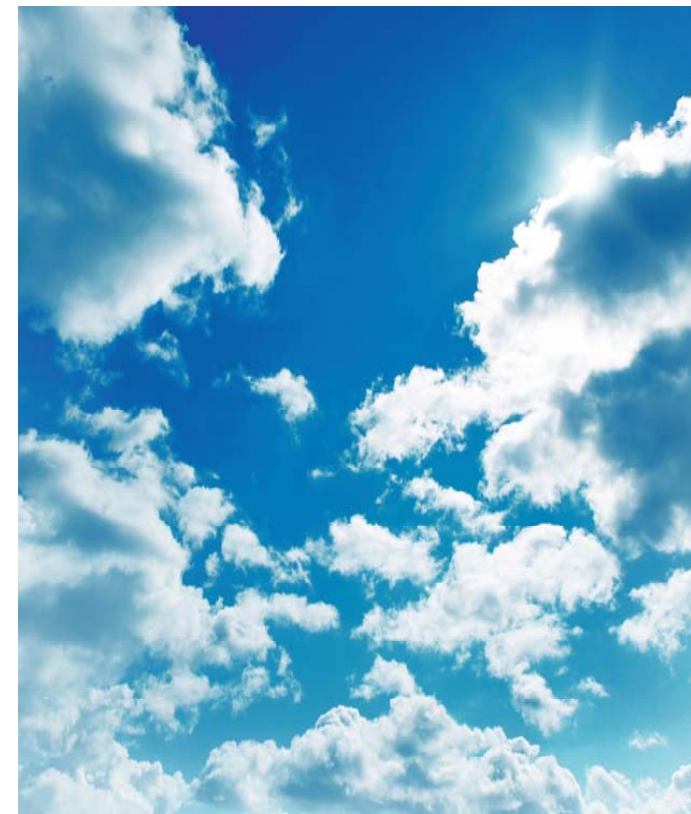
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UNIVERSITÄT
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Open-Minded

***Chair of
Business Administration and
Production Management***

Teaching

We teach classical and innovative methods and models for decision support in production management and logistics.

Our **lectures, seminars, colloquia** and **excursions** are primarily aimed at students of industrial engineering, but also of engineering in general. **Bachelor's and Master's theses** are supervised for current research projects or in cooperation with companies.

The range of courses offered by the Chair of Business Administration and Production Management comprises:

Bachelor:

- Introduction to Business Administration for Industrial Engineers
- Operations Research
- Production Management
- Seminar on current topics

Master:

- Supply Chain Management (POM 1)
- Plant Management in Industry and in the Energy Sector (POM 2)
- Methods of Production and Operations Management (POM 3)
- Seminar on current topics

Contact: M.Sc. Sebastian Schär

Research

Our research projects focus on **planning and decision-making models** for improving **resource and energy efficiency** in individual companies and supply chains. In particular, we use methods of **operations research**, especially multi-criteria decision support, for the techno-economic optimisation of production systems, also taking sustainability into account. In the context of **Industry 4.0** many current research questions emerge. We are interdisciplinary and cooperate with national and international partners from science and industry.

Examples of our research projects:

Simulation-based evaluation of measures to increase energy sustainability in port operations

In cooperation with Hamburg Port Consulting GmbH (HPC), a catalogue of measures to improve energy efficiency and the use of renewable energies has been compiled. The techno-economic and ecological evaluation of the measures is carried out with the aid of multi-criteria decision support. On this basis, a roadmap towards a profitable and environmentally compatible terminal operation is developed.

Contact: M.Sc. Erik Pohl

NEDS - Sustainable Energy Supply Lower Saxony

In this interdisciplinary research project, our task was to develop a multi-criteria method to assess transition paths for a renewable energy based power supply in 2050 against different sustainability criteria. Based on the project results and various projected energy mixes, we have also investigated the potentials and uncertainties associated with the coordinated charging of electric vehicles.

Contact: M.Sc. Marcel Dumeier

Corporate CO₂-Footprint for a public utility company

In a company-wide CO₂e footprint, all greenhouse gas emissions of a company are determined taking into account defined scopes. The greenhouse gas emissions are evaluated by converting them into CO₂ equivalents (CO₂e). We use life cycle assessment software for these calculations. On this base, future strategic measures for the cost-efficient reduction of greenhouse gas emissions can be derived.

Contact: M.Sc. Christina Scharpenberg