Bremen Research Cluster for Dynamics in Logistics

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Faculty 1
Physics/Electrical Engineering

Faculty 2
Business Studies/Economics

Faculty 3
Mathematics/Computer Science

Faculty 4
Production Engineering

Faculty 5
Law

Interdisciplinary competence in
Research
Education
Application
Dissemination

Bremen Research Cluster for Dynamics in Logistics
The International Graduate School for Dynamics in Logistics (IGS) offers outstanding researchers from all over the world a structured doctoral training program. The research is centered on four topic areas:

- Business models, decision processes and economic analyses
- Holistic interdisciplinary methods for modeling, analysis and simulation
- Adaptive and dynamic control methods
- Synchronization of material, information, decision and financial flows

The objective of the IGS is to foster excellence in education and research by pursuing an interdisciplinary and cross-cultural approach to higher education. The curriculum includes individual doctorate projects, disciplinary supervision and scientific mentoring. The IGS developed specific measures for human resource development and offers training and coaching accordingly.

Bremen Research Cluster for Dynamics in Logistics

LogDynamics conducts research investigating dynamic processes in logistic systems. The strategic objectives pursued by the cluster are:

- Sustainability of fundamental research
- Transfer of research results into the industry
- Education and training on highest level
- International visibility of Bremen's research in logistics

LogDynamics is a cooperating network of research groups from five faculties of the University of Bremen: Production Engineering, Business Studies / Economics, Mathematics / Computer Science, Physics / Electrical Engineering and Law. Associated partners are: BIBA – Bremer Institut für Produktion und Logistik GmbH and the Institute of Shipping Economics and Logistics (ISL) as well as the Jacobs University Bremen gGmbH.

International Conference on Dynamics in Logistics (LDIC)

The bi-annual LDIC is an exchange platform for logistic excellence. It provides new approaches to dynamic aspects of logistics and brings together top-class researchers from all over the world. The spectrum of LDIC reaches from modeling, planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistic systems.

LDIC Doctoral Workshop

The idea of the Doctoral workshop is to forge a seed of young researchers on Master and PhD level from different disciplines to solve the upcoming issues in coordinating logistics decisions and developing distributed control algorithms and interfaces.