Bremen Research Cluster for Dynamics in Logistics

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The 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.

The LogDynamics Lab is a platform for researchers and industry to develop and explore advanced technologies for real-world problems in logistics.

On 1,000 square meters of hall space, as well as opportunities and infrastructure for mechanical, electrical and information engineering, the lab is dedicated to – among others – the following topics:

- Mobile technologies, smart products and their use in dynamic and complex logistic networks
- More efficient and safer control methods for logistic processes and systems
- Low-risk and low-cost development and test possibilities of new technologies around logistics
- Internet of Things technologies for product lifecycle management and extended use of products

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.