

Preface

LDIC 2012 was the 3rd International Conference on Dynamics in Logistics held in Bremen (Germany) from 27th February to 1st March 2012 together with a Doctoral Workshop. The LDIC 2012 was held in conjunction with the new conference “The Impact of Virtual, Remote and Real Logistics Labs” (ImViReLL’12). Similar to its predecessors LDIC 2007 and LDIC 2009, it was organized by the Bremen Research Cluster for Dynamics in Logistics (*LogDynamics*) of the University of Bremen in cooperation with the Bremer Institut für Produktion und Logistik (BIBA), which is a scientific research institute affiliated to the university.

The scope of the conference targets the identification, analysis, and description of the dynamics of logistic processes and networks. The spectrum of topics ranges from modeling and planning of processes and innovative methods like autonomous control and knowledge management to the new technologies provided by radio frequency identification, mobile communication, and networking. The growing dynamics in the area of logistics poses completely new challenges: logistic processes and networks have to rapidly and flexibly adapt to continuously changing conditions. LDIC 2012 provided a venue for researchers from academia and industry interested in the technical advances in dynamics in logistics. The conference addressed research in logistics from a wide range of fields, e.g., engineering, computer science, and operations research.

The LDIC 2012 proceedings consist of two invited keynotes and 49 papers selected by a strong reviewing process. The volume is organized into the following ten subject areas: “*Invited Papers*”, containing the contributions of the invited speakers, “*Transport Logistics and Dynamic Routing*”, “*Production Logistics and Job Shop Scheduling*”, “*Modeling, Simulation, Optimization and Collaboration*”, “*Identification Technologies*”, “*Mathematical Modeling in Transport and Production Logistics*”, “*Information, Communication, Risk and Failure*”, “*Autonomous Control*”, “*Global Supply Chains and Industrial Application*” and “*Considerations for a Future Internet of Things*”.

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