

9th International Scientific Symposium on Logistics

The International Scientific Symposium on Logistics (ISSL) is the central forum for the scientifically oriented logistics community. The aim is to promote the interdisciplinary and international exchange of ideas in order to encourage the development of totally new models to provide solutions to real-world issues that are of relevance to researchers and scientists as well as business companies.

The future of logistics will be shaped by the needs of society, the possibilities of technologies, and by newly invented or improved business models. We will see in the future an even more dynamic development than today. The interaction between requirements, process design, and technology will be tighter. Therefore integrated models, which reflect these interactions, are of great value.

Participants will present and discuss new models to better understand what is driving the development of logistics as a science and as a field of application. Researchers, scientists, and practitioners are welcome to jointly gain insights about the future of logistics.

We are looking forward to seeing you in Magdeburg.

Your Registration

You can conveniently register for the 9th International Scientific Symposium on Logistics either online at www.bvl.de/issl or by phone on +49 / 421 / 173 84 34.

Participation Fees

€ 495 for BVL members and € 575 for non-members, reduced fee € 333 for scientists and € 110 for students.
Special rates can be granted to BVL members only.

Presentation Options

Laura Plewinski will be happy to inform you about sponsoring options and about the exhibition.
phone: +49 / 421 / 173 84 303 | plewinski@bvl.de

Venue

Fraunhofer-Institut für Fabrikbetrieb und -automatisierung IFF,
Sandtorstr. 22,
39106 Magdeburg,
Germany

24th International PhD Candidates Workshop

Wednesday, June 13, 2017, 10 a.m. - 5 p.m.
(separate registration necessary)

SESSION CHAIRS

Prof. Dr. Wojciech Paprocki,
Department of Logistics, Warsaw School of Economics, Poland

Hon.-Prof. Dr.-Ing. Klaus Richter, Manager,
Material Handling Engineering and Systems, Fraunhofer Institute for
Factory Operation and Automation IFF, Magdeburg, Germany

Directions



- 1 Fraunhofer-Institut für Fabrikbetrieb und -automatisierung IFF
Sandtorstraße 22, 39106 Magdeburg, Germany
- 2 VDT des Fraunhofer IFF
Joseph-von-Fraunhofer-Straße 1, 39106 Magdeburg, Germany

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BVL International
The Global Supply Chain Network



9TH INTERNATIONAL SCIENTIFIC SYMPOSIUM ON LOGISTICS

June 13-14, 2018

Understanding Future Logistics –
Models, Applications, Insights

Fraunhofer IFF, Magdeburg

Wednesday, June 13, 2018

- 5.00 p.m. Get Together 9th International Scientific Symposium on Logistics
- 6.00 p.m. Welcome
Prof. Dr.-Ing. Michael Schenk (Host)
Head of Institute, Fraunhofer Institute for
Factory Operation and Automation IFF, Magdeburg, Germany,
BVL Scientific Advisory Board
- Prof. Dr.-Ing. Kai Furmans**
Head of Institute for Material Handling and Logistics,
Karlsruhe Institute of Technology, Germany,
Chairman BVL Scientific Advisory Board
- 6.15 p.m. Semantic Perception for Bin Picking
Prof. Dr. Sven Behnke, Professor for Autonomous Intelligent Sys-
tems and Director of the Institute of Computer Science, Universi-
ty of Bonn, Germany
- 6.45 p.m. Container Logistics supported by Digital Platforms
Prof. Rob Zuidwijk, Professor of Ports in Global Networks at the
Department of Technology and Operations Management,
RSM – Rotterdam School of Management, The Netherlands
- 7.15 p.m. PANEL DISCUSSION | Where are the limits of digitalization?
Prof. Dr. ir. René de Koster, Professor of Logistics and Operations
Management, Erasmus University Rotterdam, The Netherlands,
BVL Scientific Advisory Board (Moderator)
Prof. Dr. Robert Blackburn, Member of multiple Boards & interim
CEO, Munich, Germany, BVL Chairman of the Board
Prof. Dr.-Ing. Fabian Behrendt, Manager, Fraunhofer Group for
Production Business, Magdeburg, Germany
Prof. Dr. Alexander Eisenkopf, Vice President, Zeppelin Chair
of Economic & Transport Policy, Zeppelin University, Frie-
drichshafen, Germany, BVL Scientific Advisory Board
Prof. Dr. Kai Hoberg, Head of Logistics Department, Professor of
Supply Chain and Operations Strategy, Kühne Logistics Universi-
ty, Hamburg, Germany, BVL Scientific Advisory Board
Prof. Dr. Dr. h.c. Wolfgang Kersten, Head of the Institute of Busi-
ness Logistics and General Management, Hamburg, University of
Technology, Germany, BVL Scientific Advisory Board
- 8.00 p.m. Networking Event

Concept Group:

Prof. Dr.-Ing. Kai Furmans	Prof. Dr. Stefan Minner
Prof. Dr. ir. René de Koster	Prof. Dr.-Ing. Ludger Overmeyer
Prof. Dr.-Ing Bernd Hellingrath	Prof. Dr.-Ing. Michael Schenk

Thursday, June 14, 2018

9.00 a.m.	Specialist session I
10.30 a.m.	Coffee break and time to visit the exhibition
11.00 a.m.	Specialist session II
12.30 p.m.	Lunch and time to visit the exhibition
2.00 p.m.	Specialist session III
3.35 p.m.	The key take aways of the Symposium
3.45 p.m.	Closing
4.00 p.m.	Farewell Coffee



Specialist session I | 9.00 a.m.

Artificial Intelligence in Supply Chain Management Room No. 3

CHAIR OF SESSION

Prof. Dr.-Ing. Frank Straube, Head of Logistics at the Institute of Technology and Management, Chair of Logistics, Technical University Berlin, Germany, BVL Advisory Board

Robotics Technologies – A Sneak Peek to Silicon Valley

Prof. Dr. Torsten Kroeger, Head of Institute for Anthropomatics and Robotics (IAR) – Intelligent Process Automation and Robotics Lab (IPR), KIT, Karlsruhe, Germany

Applications of Artificial Intelligence in Logistics and Supply Chain Management

Prof. Dr.-Ing Bernd Hellingrath, Chair for Information Systems and Supply Chain Management, University of Münster, Germany, BVL Scientific Advisory Board

Incorporating Sentimental Analysis into Scor Performance Metrics

Prof. Dr. John Geraghty, Assistant Professor, School of Mechanical and Manufacturing Engineering, Dublin City University, Ireland

New Supply Chain Management Platforms Room No. 2

CHAIR OF SESSION

Prof. Dr. Stefan Minner, Logistics and Supply Chain Management, TUM School of Management, Technical University of Munich, Germany, BVL Scientific Advisory Board

On Demand Distribution Platforms

Prof. Dr. Jennifer Pazour, Assistant Professor, Department of Industrial and Systems Engineering, Rensselaer Polytechnic Institute (RPI), Troy, NY, USA

Smart Logistics Space in the Context of Industry 4.0

Prof. Dr.-Ing. Fabian Behrendt, Manager, Fraunhofer Group for Production Business, Magdeburg, Germany

Impact of information exchange platforms on truck waiting and lead times in the air cargo supply chain

Prof. Dr. Kai-Oliver Schocke, Frankfurt University of Applied Science, Germany

Specialist session II | 11.00 a.m.

News on Automatic Guided Vehicles (AGVs) Room No. 3

CHAIR OF SESSION

Prof. Dr. ir. René de Koster, Professor of Logistics and Operations Management, Erasmus University Rotterdam, The Netherlands, BVL Scientific Advisory Board

Robust integration of acceleration and deceleration processes into the time-window routing method

Prof. Dr.-Ing. Johannes Fottner, Chair of Materials Handling, Material Flow, Logistics, Technical University of Munich, Germany, BVL Scientific Advisory Board

Delivery robots, a transport innovation for the last mile

Prof. Dr.-Ing. Uwe Clausen, Director, Fraunhofer Institute for Material Flow and Logistics, Dortmund, Germany, BVL Scientific Advisory Board

An Expert System for the automated reaction to disturbances in Automated Guided Vehicle Systems (AGVs)

Prof. Dr.-Ing. Ludger Overmeyer, Head of Institute of Transport and Automation Technology, Hannover Centre for Production Technology (PZH), Leibniz University Hanover, Germany, BVL Scientific Advisory Board

Models and Testbeds in Supply Chain Management Room No. 2

CHAIR OF SESSION

Prof. Dr.-Ing. Julia Bendul, Chair of Management for Industry 4.0, RWTH Aachen University, Germany

Dortmund Management Model – a Contribution to Digitalization in Logistics and Supply Chain Management

Prof. Dr. Michael Henke, Director, Fraunhofer Institute for Material Flow and Logistics, Dortmund, Germany

Airline business models and their network structures

Prof. Dr. Anne Lange, Assistant Professor, Technical University Darmstadt, Germany, BVL Scientific Advisory Board

An architecture and testbed for large-scale installations of intelligent objects with timecritical integration of human-machine-interaction and material flow control

Moritz Roidl, Senior Engineer, Chair of Materials Handling and Warehousing, Technical University Dortmund, Germany

Specialist session III | 2.00 p.m.

New Technologies in Warehouse Management Room No. 3

CHAIR OF SESSION

Prof. Dr.-Ing. Hartmut Zadek, Institute of Logistics and Material Handling Systems, Otto-von-Guericke-University, Magdeburg, Germany, BVL Scientific Advisory Board

Artificial Intelligence in Warehouse Automation for flexible Material Handling
Dr.-Ing. Henrik Thamer, Bremer Institut für Produktion und Logistik, Bremen, Germany

Virtual Reality in Logistics – Opportunities and Limitations of Planning & Training in Logistics

Prof. Dr. Ralf Elbert, Professor, Department of Management and Logistics, Technical University Darmstadt, Germany, BVL Scientific Advisory Board

Forecasting Energy Consumption of Material Handling Systems Standards and accuracy issues

Prof. Dr.-Ing. Kai Furmans, Head of Institute for Material Handling and Logistics, Karlsruhe Institute of Technology, Germany, Chairman BVL Scientific Advisory Board

Inventory impacts on Supply Chain Management Room No. 2

CHAIR OF SESSION

Prof. Dr. Jennifer Pazour, Assistant Professor, Department of Industrial and Systems Engineering, Rensselaer Polytechnic Institute (RPI), Troy, NY, USA

Inventory allocation in omni-channel fashion retailing

Prof. Dr. Alexander Hübner, European Business School, Supply Chain Management, Oestrich-Winkel, Germany

Production Program Planning for the Use of Stock Levels as an Energy Storage Solution

Denise Schweers, Project Engineer, Institut für Integrierte Produktion Hanover (IPH), Germany

Investigating efficient buffer configurations for robust resource scheduling in multi-project manufacturing

Prof. Dr.-Ing. Thorsten Schmidt, Professorship of Logistics Engineering, Technical University Dresden, BVL Scientific Advisory Board