



Wednesday, 21 September

9am **HICL 2022 Opening**

» Prof. Wolfgang Kersten; Prof. Carlos Jahn; Prof. Thorsten Blecker; Prof. Christian Ringle

9:15am **Welcome Keynote**

Hybrid order picking systems for resilient and sustainable warehouse logistics

» Prof. Matthias Klumpp (1), Dominic Loske (2), Thede Baumann (3)

10am **Coffee Break**

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10:30am **Session 1: Innovation and Technology Management**

Chaired by: Ms. Hannah-Deborah Harbich

10:30am **Comparing Manual and Automated Production and Picking Systems**

» Mr. Cristian Bitterling, Mr. Jonas Koreis, Mr. Dominik Loske, Prof. Matthias Klumpp

10:45am **Drone based Delivery System: Restrictions and Limitations**

» Mr. Azamat Seidakhmetov, Dr. Omid Fatahi-Valilai

11am **Digital transformation of planning in the pharmaceutical sector**

» Ms. ANA JIMÉNEZ, Ms. Ingrid Carrillo, Ms. Angie Colorado, Ms. Maria Fernanda Durán, Prof. Andres Felipe Santos

11:15am **Topic-related discussion round**

» Mrs. / Mr. HICL Chair

10:30am **Session 1: Port Logistics**

Chaired by: Ms. Michaela Grafelmann

10:30am **Potentials of Direct Container Transshipment at Container Terminals**

» Mrs. Nicole Nellen, Ms. Ann-Kathrin Lange, Prof. Carlos Jahn

10:45am **Mining port operation information from AIS data**

» Mr. Jussi Steenari, Dr. Lucy Ellen Lwakatare, Prof. Jukka Nurminen, Dr. Jaakko Talonen, Mr. Teemu Manderbacka

11am **Truck Appointment Systems - How Can They Be Improved and What Are Their Limits?**

» Ms. Ann-Kathrin Lange, Mrs. Nicole Nellen, Prof. Carlos Jahn

11:15am **Potential of Container Terminal Operations for RoRo Terminals**

» Mr. Stephan Krüger, Mr. Marius Schulze, Prof. Carlos Jahn

11:30am **Topic-related discussion round**

» Mrs. / Mr. HICL Chair

11:45am **Lunch Break**

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12:45pm **Session 2: Advanced Manufacturing and Industry 4.0**

Chaired by: Mr. Jürgen Weigell

12:45pm **Transformation of the Construction Supply Chain through Advanced Manufacturing: Case Study and Future Challenges**

» Mr. Bennet Zander

1pm **Concept for Material Supply in Fluid Manufacturing Systems**

» Mr. Manuel Hagg, Prof. Robert Schulz

1:15pm **Topic-related discussion round**

» Mrs. / Mr. HICL Chair



Continued from **Wednesday, 21 September**

- 12:45pm **Session 2: City Logistics**
Chaired by: Mr. Nicolas Rückert
- 12:45pm **Sustainable urban logistics concepts – a collaborative design approach considering stakeholder perspectives**
» Mr. Robert Teschendorf, Mr. Maximilian Engelhardt, Prof. Birte Malzahn, Mr. Markus Husemann, Prof. Christian Butz, Prof. Stephan Seeck
- 1pm **Guidelines for transferring sustainable urban logistics concepts**
» Mr. Leon Klose, Mrs. Anne Beckmann, Mrs. Stephanie Ihlenburg, Dr. Raphael Preindl, Prof. Frank Straube
- 1:15pm **Sustainability in urban logistics – a literature review**
» Mr. Giovanni Garola, Dr. Arianna Seghezzi, Dr. Chiara Siragusa, Dr. Riccardo Mangiaracina
- 1:30pm **Topic-related discussion round**
» Mrs. / Mr. HICL Chair

Thursday, 22 September

- 9am **Session 1: Artificial Intelligence and Blockchain**
Chaired by: Mr. Johannes Schnelle
- 9am **Workload Forecasting of a Logistic Node Using Bayesian Neural Networks**
» Mr. Emin Nakilcioğlu, Ms. Anisa Rizvanolli, Mr. Olaf Rendel
- 9:15am **Preliminary Analysis on Data Quality for ML Applications**
» Mr. Lorenz Kiebler, Mr. Nikolas Moroff, Mr. Jens Jakob Jacobsen

- 9:30am **Critical Evaluation of LOCO dataset with Machine Learning**
» Mr. Recep Savas, Dr. Johannes Hinckeldeyn
- 9:45am **Smart Orders as a new instrument for production control**
» Mr. Devis Bartsch, Prof. Herwig Winkler
- 10am **Topic-related discussion round**
» Mrs. / Mr. HICL Chair
- 9am **Session 1: Maritime Logistics**
Chaired by: Mr. Stephan Krüger
- 9am **Virtual Reality Training for Firefighting Scenarios in the Maritime Sector**
» Ms. Michaela Grafelmann, Mr. Philipp Braun, Mr. Felix Gill, Mr. Hauke Stolz, Dr. Johannes Hinckeldeyn, Ms. Ann-Kathrin Lange
- 9:15am **Prevailing Technologies and Adoption Obstacles in Maritime Logistics**
» Ms. Annika Wohlleber, Mr. Christopher Münch, Prof. Evi Hartmann
- 9:30am **Marine Communication for Shipping: Using Ad-Hoc-Networks at Sea**
» Ms. Neermegha Mishra, Mr. Marvin Kastner, Prof. Carlos Jahn
- 9:45am **Assessing Offshore Wind Farms Collision Risks using AIS data: An Overview**
» Mr. Jürgen Weigell, Prof. Carlos Jahn
- 10am **Topic-related discussion round**
» Mrs. / Mr. HICL Chair
- 10:15am **Coffee Break**
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- 10:45am **Session 2: Supply Chain Risk and Security Management**
Chaired by: Ms. Meike Schröder



Continued from **Thursday, 22 September**

- 10:45am **Structured Literature Review of Transport Networks and Supply Chain Resilience**
» [Mr. Johannes Gast](#), Ms. Evelina Kirkach, Prof. Dmitry Ivanov
- 11am **Supply Chain Risk Management in Crisis Situations**
» [Mr. Daniel Müller](#), Mr. Ayman Nagi, Ms. Meike Schröder
- 11:15am **Evaluation of monetary impacts of cyber-attacks on global supply chains in ports**
» Dr. Ville Hinkka, [Mr. Harri Pyykkö](#)
- 11:30am **Topic-related discussion round**
» [Mrs. / Mr. HICL Chair](#)
- 10:45am **Session 2: City Logistics and Business Analytics**
Chaired by: Mrs. Nicole Nellen
- 10:45am **Smart City Loop is an innovative module to reach resilient and sustainable goods transportation in metropolitan areas and bigger cities**
» [Mr. Martin Klein](#)
- 11am **Operation Control Center for automated Vehicles - Conceptual Design**
» [Ms. Olga Biletska](#), Ms. Gianna Kurtz, Prof. Hartmut Zadek
- 11:15am **Optimization of container transportation in port hinterland with trucks - Quantifying the effect of cooperation**
» [Mr. Nicolas Rückert](#), Prof. Kathrin Fischer, Mrs. Pauline Reinecke, Prof. Thomas Wrona
- 11:30am **Topic-related discussion round**
» [Mrs. / Mr. HICL Chair](#)

Friday, 23 September

- 9am **Session 1: Innovation and Technology Management**
Chaired by: Mrs. Birgit von See
- 9am **Analysis of Potential Benefits and Maturity Level of Digital Procurement**
» [Mr. Sascha Stradner](#), Dr. Uwe Brunner
- 9:15am **Auction Design in Strategic Freight Procurement**
» [Mr. Marius Dellbrügge](#), Mr. Tim Brilka, Mr. Felix Kreuz, Prof. Uwe Clausen
- 9:30am **Digitalization of Rail Freight Transport**
» [Mr. Paul Gerken](#), Prof. Herbert Walter Kotzab, Mr. Lennard Blumenstein, Mr. Franz Buse, Mr. Nils von Euen, Mr. Kevin Mucker, Ms. Laura Zöllner
- 9:45am **Topic-related discussion round**
» [Mrs. / Mr. HICL Chair](#)
- 9am **Session 1: Sustainability**
Chaired by: Mr. Jonas Fuchs
- 9am **Can deficiencies in Scope 3 Carbon Accounting be overcome?**
» [Ms. Hannah-Deborah Harbich](#)
- 9:15am **Possible Impacts of the European Green Deal on Turkey's Logistics Industry**
» [Dr. Fatih Cura](#), Dr. Sercan Demir
- 9:30am **Sustainable Last Mile Delivery Network using Social Media Data Analytics**
» [Ms. Ange-Marie Tuyishime](#), Dr. Omid Fatahi-Valilai
- 9:45am **Topic-related discussion round**
» [Mrs. / Mr. HICL Chair](#)



Continued from Friday, 23 September

10am **Coffee Break**
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10:45am **Session 2: Advanced Manufacturing and Industry 4.0**
 Chaired by: Mr. Jürgen Weigell

10:45am **Outlier detection in Data Mining: Exclusion of errors or loss of information?**
 » [Mr. Florian Hochkamp](#), Prof. Markus Rabe

11am **Object Detection in Picking - Handling variety of a warehouses articles**
 » [Mr. Mathias Rieder](#), [Mr. Marius Breitmayer](#)

11:15am **Supply Ecosystems and The Concept of Resilience – A Literature Review**
 » [Mr. Christopher Münch](#), Mr. Emanuel Marx

11:30am **Topic-related discussion round**
 » [Mrs. / Mr. HICL Chair](#)

10:45am **Session 2: Artificial Intelligence and Blockchain**
 Chaired by: Sven Reimers

10:45am **Smart contract from a value perspective**
 » [Dr. Ettore-William Di-Mauro](#)

11am **Framework for the Adoption of Blockchain in Maritime Cold Chains**
 » [Mr. Johannes Schnelle](#), Ms. Meike Schröder, Prof. Wolfgang Kersten

11:15am **Topic-related discussion round**
 » [Mrs. / Mr. HICL Chair](#)

11:45am **Industrial Contribution**

Particle-Fingerprints as novel, forgery-proof unique identifier for products in a circular economy
 » Jochen Moesslein

12:15pm **Closing Keynote**

Sustainability in Logistics and Supply Chain Management: More than Greenhouse Gas Reduction
 » Prof. Heike Flämig

12:45pm **HICL 2022 Farewell**

» Prof. Wolfgang Kersten; Prof. Carlos Jahn; Prof. Thorsten Blecker;
 Prof. Christian Ringle