

3rd Interdisciplinary Conference on Production, Logistics and Traffic (ICPLT)

Program guide

September 25th – 26th, 2017
Darmstadt, Germany



TECHNISCHE
UNIVERSITÄT
DARMSTADT

tu technische universität
dortmund



DFG Deutsche
Forschungsgemeinschaft

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Foreword

The Interdisciplinary Conference on Production, Logistics and Traffic (ICPLT) addresses the interfaces between the three eponymous disciplines. The Third ICPLT in particular deals with current drivers influencing economic, technical, ecological and societal issues concerning production, logistics and traffic. It takes place on September 25th – 26th, 2017 at Technische Universität (TU) Darmstadt, representing a joint effort by TU Darmstadt and TU Dortmund. The conference series is organized as a bi-annual event, the first 2013 in Darmstadt and the second 2015 in Dortmund. The Fourth ICPLT will be organized in Dortmund on March 27th – 28th, 2019.

Trends like globalization, increasing volatility, digitalization and urban growth have an increasing impact on daily life and business. This can be observed in the higher congestion levels on the transport infrastructure as well as the increasing importance of logistics services or 24/7 manufacturing. To ensure competitiveness, companies and public authorities have to increasingly coordinate their decisions. The basis for such coordination is an interdisciplinary approach in basic and applied research. The ICPLT offers a platform for interdisciplinary discussion which is still often neglected. This kind of discussion helps to better understand the interdependencies and conflicts of interest between the areas of production, logistics and traffic.

The focus of the third ICPLT is on the following core topics:

- Spatial patterns of Logistics and Freight Transport
- Management of Production and Logistics Systems
- Delivery Strategies
- Freight Transport Demand Modelling
- Intralogistics
- Application of Optimization and Planning models
- Understanding agent behaviour along the Supply Chains
- Intermodal Transport Chains
- Route Selection and Routing
- Production, Logistics and Traffic in an urban context
- Cooperation and Collaboration
- New business models along the Supply Chain
- Policy assessment in road freight transport
- Innovations
- Incidents, Disruptions and Disasters

The conference is organized so that there are normally three presentations followed by discussions dealing with different relevant aspects of the topics. Eight presentations are concerning the topic “Production, Logistics and Traffic in an Urban Context.” One reason for this is that this topic is discussed today with a high priority. Another reason is that this discussion follows the discussion of the Second ICPLT which had the focus on “Commercial Transport.”

In addition, distinguished invited speakers – Prof. Lóránt A. Tavasszy (Delft University of Technology), Dr. Christian Langhagen-Rohrbach (Ministry of Economics, Energy, Transport and Regional

Development, State of Hessen), Prof. Alan McKinnon (Kuehne Logistics University, Hamburg) and Hasso Georg Grünjes (Siemens AG, München) – will address selected interdisciplinary topics in four keynotes.

The contributions to the conference were evaluated and selected on the basis of a single-blind review process. We thank the members of the Scientific Committee involved in this process very much. We are also obliged to the “Deutsche Forschungsgemeinschaft (DFG)” for the financial support of our conference. This support underlines the scientific importance of the ICPLT!

The members of the ICPLT Conference Board wish the conference as a whole a good and sustained progress and welcome all participants in Darmstadt!

The Conference Board

Prof. Dr.-Ing. Manfred Boltze – Prof Dr.-Ing. Uwe Clausen – Prof. Dr. Ralf Elbert – Prof. Dr. Dr. h.c. mult. Hans-Christian Pfohl

Conference Board

The members of the Conference Board welcome all participants of the 3rd Interdisciplinary Conference on Production, Logistics and Traffic to Darmstadt.

Prof. Dr.-Ing. Manfred Boltze
Professor of Transport Planning and Traffic Engineering

Civil engineer by profession, Manfred Boltze became a research associate and obtained his doctoral degree for a study on optimal cycle times in Traffic Signal Control for Road Networks from TU Darmstadt in 1988. After working as Head of the Department of Transport Planning and Traffic Engineering for Albert Speer & Partner in Frankfurt he was appointed chair of the Institute for Transport Planning and Traffic Engineering at TU Darmstadt in 1997. Since his appointment, the institute's activities cover, among others, interdisciplinary research fields such as environmentally induced traffic signal control, freight transport demand management, traffic and health or sustainable road freight traffic. He was one of the initiators of the interdisciplinary research project "Dynamo PLV" which is the nucleus of the ICPLT conference series.



Prof. Dr.-Ing. Uwe Clausen
Professor of Transport Logistics

Uwe Clausen is Managing Director of the Institute of Transport Logistics at TU Dortmund University and director of the Fraunhofer-Institute for Material Flow and Logistics in Dortmund (since 2001). He worked in the logistics service industry as European Operations Director at Amazon.com and logistics manager at Deutsche Post DHL. In July 1995 he achieved the title of Dr.-Ing. with a doctoral thesis on transportation network optimization at TU Dortmund. He is Member of the board of ECTRI European Conference of Transport Research Institutes, the Advisory Council of the Association of German Transportation companies and the scientific advisory board of the Bundesvereinigung Logistik e.V.. His research areas include green logistics, commercial traffic modelling, intermodal transportation, mathematical optimization, network optimization and distribution systems.



Prof. Dr. Ralf Elbert
Professor of Management and Logistics

Ralf Elbert is Professor and chair of Management and Logistics at TU Darmstadt since 2011. From 2009 to 2011 he held an assistant professorship at TU Berlin for Logistics Services and Transportation. His research focusses on the management and planning of transportation networks (especially intermodal transportation networks), specifically on the analysis of freight mode choice decisions, efficiency improvements by information sharing and measures for increasing utilization of transport capacities. Further research fields are warehouse management and the integration of human factors in intralogistics systems as well as the management of logistics and production networks. Simulation modeling is the preferred research method throughout most of his work.



Prof. Dr. Dr. h.c. mult. Hans-Christian Pfohl
Professor of Supply Chain and Network Management

Professor Pfohl, born 14.03.1942 in Gablonz, studied Business Management with Mechanical Engineering from 1962 to 1968 at TU Darmstadt, where he graduated as Dr. rer. pol. and habilitated (venia legendi) in business administration. From 1975 to 1982 he held the Chair of Business Administration with responsibility for "Organization and Planning" at the University of Essen. From 1982 to 2011 he held the Chair of Management and Logistics at TU Darmstadt. Since 2011 he is responsible for "Supply Chain and Network Management" at the Department Law and Economics. Since 2000 he is also a professor with responsibility for "Management and Logistics" at the Chinese-German School for Postgraduate Studies in Shanghai, China. Furthermore, Prof. Pfohl is the head of the Research & Development Committee of the European Logistics Association (ELA) and member of the ELA Board. He is also a member of the Editorial Board of the scientific journals "Logistics Research" and "The International Journal of Logistics management".



Scientific Committee

The members of the Conference Board express their gratitude for the support of the following members of the Scientific Committee to the 3rd ICPLT in 2017:

Prof. Dr. Mats Abrahamsson

Linköping University, Management and Engineering & Logistics and Quality

Prof. Dan Andersson

Chalmers University of Technology Gothenburg, Technology Management and Economics

Prof. Dr. Michael Browne

University of Gothenburg, Logistics and Urban Freight Transport

Prof. Dr. Christoph Bode

University of Mannheim, BME Endowed Chair of Procurement

Prof. Dr. Ronald Bogaschewsky

University of Wuerzburg, Business Administration and Industrial Management

Prof. Dr. Michael Bourlakis

Cranfield University, Logistics and Supply Chain Management

Prof. Dr. Dragan Ciscic

University of Rijeka, Maritime Studies

Prof. Dr. Laetitia Dablanc

University of Paris-Est, Science and Technology for Transport, Development and Networks

Prof. Dr. Alexander Eisenkopf

Zeppelin University Friedrichshafen, Economic- and Transportation Policy

Prof. Dr. Pietro Evangelista

National Research Council Naples, Logistics and Supply Chain Management

Prof. Dr. Nathalie Fabbe-Costes

Aix-Marseille Université, Transportation and Logistics

Prof. Dr.-Ing. Heike Flämig

Hamburg University of Technology, Transport Planning and Logistics

Prof. Dr. Hanno Friedrich

Kühne Logistics University Hamburg, Freight Transportation - Modelling and Policy

Prof. Dr. George A. Giannopoulos

The Centre for Research & Technology, Hellenic Institute of Transport

Prof. Dr. Christoph Glock

Technische Universität Darmstadt, Production- and Supply Chain Management

Prof. Dr. David B. Grant

University of Hull, Logistics

Prof. Dr. Michael Henke

Technische Universität Dortmund, Corporate Logistics

Prof. Dr. Gerard de Jong

University of Leeds, Transport Studies

Prof. Dr. Danuta Kisperska-Moron

University of Economics in Katowice, Logistics and Economics

Prof. Dr. René De Koster

Erasmus University Rotterdam, Technology and Operations Management

Prof. Dr. Sebastian Kummer

Wirtschaftsuniversität Wien, Transportation und Logistics

Prof. Dr. Rudolph Large

University of Stuttgart, Logistics and Supply Management

Prof. Dr.-Ing. Bert Leerkamp

University of Wuppertal, Freight Transport Planning and Logistics

Prof. Dr. Barbara Lenz

German Aerospace Center Berlin, Transport Research

Prof. Dr. Gernot Liedtke

German Aerospace Center Berlin, Commercial Transport

Prof. Dr. Rosário Macário

Lisbon Technical University, Engineering

Prof. Dr. Cathy Macharis

Vrije Universiteit Brussel, Business Technology and Operations

Prof. Dr. Alan McKinnon

Kühne Logistics University Hamburg, Logistics

Prof. Dr. Hilde Meersman

University of Antwerp, Transport and Regional Economics

Prof. Dr.-Ing. Joachim Metternich

Technische Universität Darmstadt, Production Management, Technology and Machine Tools

Prof. Dr. Herbert Meyr

University of Hohenheim, Supply Chain Management

Prof. Dr. Stefan Minner

Technische Universität München, Logistics and Supply Chain Management

Prof. Dr. Andreas Norrman

LUND University, Industrial Management and Logistics

Prof. Dr. Stefan Seuring

University of Kassel, Supply Chain Management

Prof. Dr. Wolfgang Stölzle

University St. Gallen, Logisticsmanagement

Prof. Dr. Frank Straube

Technische Universität Berlin, Logistics

Prof. Dr. Lóránt Tavasszy

Delft University of Technology, Freight Transport and Logistics

Prof. Dr. Boris Varlamov

ITMO University Saint Petersburg, Economics and Strategic Management

Prof. Dr. Gyula Vastag

Corvinus University of Budapest, Operations and Supply Chain Management

Inge Vierth

VTI Stockholm, Transport Economics

Prof. Dr. Eddy van de Voorde

University of Antwerp, Transport and Regional Economics

Prof. Dr. Carl Marcus Wallenburg

WHU Vallendar, Logistikmanagement

Prof. Dr. Jaroslaw Witkowski

Wroclaw University of Economics, Strategic Management and Logistics

Prof. Dr. Johan Woxenius

University of Gothenburg, Logistics and Transportation Research

List of Participants

Last Name	Name	Organisation	Department
Apfelstädt	Andy	Fachhochschule Erfurt	Institute for Traffic and Spatial Planning
Balster	Andreas	Technische Universität Darmstadt	
Bäumler	Ilja	Universität Bremen	
Bischoff	Oliver	Universität Kassel	Supply Chain Management
Bode	Hendrik	Technische Universität Darmstadt	
Bódis	Tamás	Széchenyi István University	Department of Logistics and Forwarding
Bojic	Sanja	University of Novi Sad	Faculty of Technical Sciences
Boltze	Manfred	Technische Universität Darmstadt	Verkehrsplanung und Verkehrstechnik
Brauner	Anna-Katharina	Technische Universität Darmstadt	Fachbereich Bau- und Umweltingenieurwissenschaften; FG Bahnsysteme
Browne	Michael	University of Gothenburg	Department of Business Administration
Capo	Claire	Normandy Le Havre University / NIMEC	FAI
Clausen	Uwe	TU Dortmund University	Institute of Transport Logistics
Combes	Francois	IFSTTAR	AME
Cramer	Daniel	Technische Universität Darmstadt	
Dörr	Heinz	arp-planning.consulting.research	Transport Research
Echelmeyer	Wolfgang	ESB Business School	Reutlingen University
Elbert	Ralf	Technische Universität Darmstadt	Fachgebiet Unternehmensführung und Logistik
Emde	Simon	Technische Universität Darmstadt	Fachgebiet Management Science / Operations Research
Fischer	Niklas	Technische Universität Darmstadt	
Flämig	Heike	Hamburg University of Technology	Institute for Transport Planning and Logistics
Freichel	Stephan	TH Köln (Cologne University of Applied Sciences)	Faculty for Automotive Systems and Production Engineering

Friedrich	Anne	Technische Universität Darmstadt	Fachgebiet Unternehmensführung und Logistik
Friedrich	Hanno	Kühne Logistics University (KLU)	
Gleser	Michael	Technische Universität Darmstadt	
Glock	Christoph	Technische Universität Darmstadt	Institute of Production and Supply Chain Management
Gottschald	Marc	Kühne Stiftung	
Grosse	Eric	Technische Universität Darmstadt	Produktion und Supply Chain Management
Grünjes	Hasso Georg	Siemens AG	Head of eHighway
Hoerl	Bardo	Vienna University of Technology	Centre of Transportation System Planning
Horvath	Adrian	Széchenyi István University	Logistics and Forwarding
Käfer	Andreas	TRAFFIX Verkehrsplanung GmbH	Managing Director
Kaiser	Joscha	Technische Universität Darmstadt	PTW
Kang	Sanggyun	University of Southern California	METRANS Transportation Center
Kin	Bram	Vrije Universiteit Brussel	MOBI
Kinz	Monika	PTV Planung Transport Verkehr AG	
Klauenberg	Jens	DLR Institute of Transport Research	Commercial Transport
Knigge	Jan-Karl	Technische Universität Darmstadt	Fachgebiet Unternehmensführung und Logistik
Kretschmer	Veronika	Fraunhofer Institute for Material Flow and Logistics (IML)	Intralogistics and -IT Planning
Kreuz	Felix	Technische Universität Dortmund	Institut für Transportlogistik (ITL)
Kunz	Christian	Technische Universität Darmstadt	
Kurnaz	Tamer	Technische Universität Darmstadt	Economics
Lange	Anne	Technische Universität Darmstadt	Multimodalität und Logistiktechnologien
Langhagen-Rohrbach	Christian	Hessisches Ministerium für Wirtschaft, Energie Verkehr und Landesentwicklung	Referatsleiter Mobilität, Logistik, Binnenschifffahrt
Leerkamp	Bert	Bergische Universität Wuppertal	Fakultät für Architektur und Bauingenieurwesen
Lenz	Barbara	DLR Institute of Transport Research	Institute of Transport Research

Liedtke	Gernot	German Aerospace Center (DLR), Institute of Transport Research	Commercial Transport
Lindgren	Samuel	VTI (Swedish Road and Transport Research Institute)	Transport Economics
Linke	Regina	Technische Universität Darmstadt	
Lobig	Anika	German Aerospace Center	Institute of Transport Research
Matt	Christian	Hamburg University of Technology	Institute for Transport Planning and Logistics
McKinnon	Alan	Kühne Logistics University (KLU)	Logistics
Monzert	Tobias	Technische Universität Darmstadt	Transport Planning and Traffic Engineering
Moraitakis	Nikos	Technische Universität Darmstadt	
Morales Fusco	Pau	CIMNE - International Centre for Numerical Methods in Engineering	CENIT - Centre for Innovation in Transport (Logistics and Maritime Transport)
Moritz	Nadine	University of Applied Sciences Upper Austria	Logistikum Steyr
Muerza	Victoria	University of Zaragoza	Aragon Institute of Engineering Research- i3A
Norrman	Andreas	Lund University	Department of Industrial Management and Logistics
Oetting	Andreas	Technische Universität Darmstadt	
Palmer	Andrew	Heriot Watt University	Centre for Sustainable Road Freight
Pfohl	Hans- Christian	Technische Universität Darmstadt	
Pholsook	Thitinan	Technische Universität München	TUM School of Management
Quick	Andreas	Fraunhofer Institute for Material Flow and Logistics (IML)	Aviation Logistics
Reis	Vasco	Instituto Superior Técnico, Universidade de Lisboa	Civil Engineering
Rogers	Helen	Technische Hochschule Nürnberg	Betriebswirtschaft
Roidl	Moritz	TU Dortmund	Chair for Material flow and Warehousing
Rolko	Kevin	Technische Universität Darmstadt	Fachgebiet für Verkehrsplanung und Verkehrstechnik
Rosenberger	Kerstin Mareike	Hamburg University of Technology	Institute for Transport Planning and Logistics

Scharf	Katrin	Technische Universität Darmstadt	Fachgebiet Unternehmensführung und Logistik
Schocke	Kai-Oliver	Frankfurt University of Applied Sciences	Business and Law
Schöpp	Ferdinand	Technische Universität Darmstadt	
Sieke	Harald	Fraunhofer Institute for Material Flow and Logistics (IML)	Aviation Logistics
Steffen	Marcel	Hamburg University of Technology	Institute for Transport Planning and Logistics
Tavasszy	Lóránt	Delft University of Technology	
Thaller	Carina	TU Dortmund University	Institute of Transport Logistics
Thome	Lukas	Technische Universität Darmstadt	
Unsel	Hans G	CargoInnovations	Systems Architecture
Verlinden	Thomas	University of Antwerp	Transport and Regional Economics
Vierth	Inge	VTI (Swedish Road and Transport Research Institute)	Transport Economics
Wauri	Danny	Technische Universität Darmstadt	Transport Planning and Traffic Engineering
Weitzel	Timm	Technische Universität Darmstadt	
Willhaus	Martin	Kühne Stiftung	
Wolferrmann	Axel	Hochschule Darmstadt	Civil Engineering
Yahsi	Burak	Technische Universität Darmstadt	
Yuan	Quan	University of Southern California	Urban Planning and Spatial Analysis
Zazai	Fawad	Helmut-Schmidt-Universität	Maschinenbau
Zhou	Min	Technische Universität Darmstadt	

Venue and Conference Dinner

The conference venue is Technische Universität Darmstadt's attractively renovated historical Engine House (Maschinenhaus) located in the heart of the city centre campus.

The full address is:

Maschinenhaus S 1 | 05
Magdalenenstraße 12
64289 Darmstadt

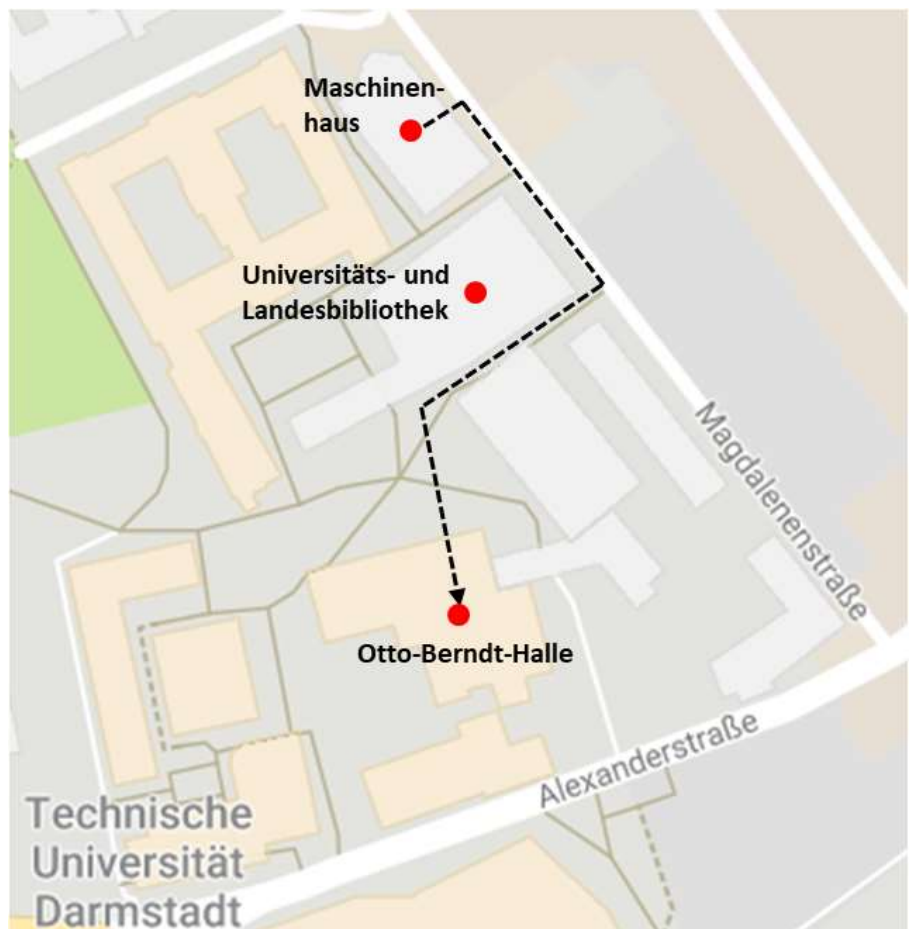


The conference dinner will be held in Otto-Berndt-Halle, TU Darmstadt's city campus canteen. A short walk of about 5 minutes will take the participants from Maschinenhaus to Otto-Berndt-Halle as pictured below. Also, the Conference Staff will guide the participants there, starting from Maschinenhaus.

After a short welcome speech, Prof. Dr.-Ing. Ralph Bruder, since 2014 Vice-President of TU Darmstadt responsible for academic affairs and young researchers, will address the audience.

Afterwards, the conference participants and their guests can enjoy dinner with a buffet consisting of local and international delicacies.

The dinner itself and all beverages are included in the conference fee and therefore free of charge.



Keynote Speakers

Distinguished speakers address selected interdisciplinary topics in four keynotes. Beneath, you can find more information on the keynote speakers who will certainly give you new insights during 3rd ICPLT.

Prof. Alan McKinnon
Professor of Logistics, Kuehne Logistics University

Over the past four decades, Professor McKinnon has actively promoted the development of logistics in academic, industrial and government circles. Between 1987 and 2012 he was based at Heriot-Watt University in Edinburgh where he established a research center specializing in logistics and a master's program in logistics and supply chain management. In 2012 he moved to Hamburg to become Head of Logistics and Dean of Programs at Kuehne Logistics University.



Prof. Lóránt A. Tavasszy
Professor in Freight and Logistics, Delft University of Technology

Professor Tavasszy's research focuses on the modelling of linkages between logistics, freight transportation and spatial systems. He developed the classical SMILE model and won international awards for research led by him from WCTRS in 1998 and from the US TRB in 2013. Since 2016, he is Professor in Freight and Logistics at Delft University of Technology.



Dr. Christian Langhagen-Rohrbach
**Head of Division Mobility, Logistics, Inland Water Transportation,
Ministry of Economics, Energy, Transport and Regional Development,
State of Hessen**

Dr. Langhagen-Rohrbach is a geographer and has been working for more than ten years for the Ministry of Economics, Energy, Transport and Regional Development, State of Hessen. From 2008 to 2011 he was teaching as a Professor for logistics at Hochschule Fresenius, Idstein (Germany), and was part of the Office of the Minister as Director General Affairs from 2011 to 2014. Since 2014 he is Head of Division Mobility, Logistics and Inland Waterway Transportation. He is working on all fields of traffic and transport policy and his division is responsible for the promotion of several promotional programs e.g. CO₂-reduction in traffic and transport.



Hasso Georg Grünjes
Head of eHighway, Siemens AG

Mr. Grünjes has a background in Civil Engineering and electric transport systems. He started his career within Siemens AG working as a project manager at a high speed railway infrastructure project in the Netherlands from 2001 to 2008. He then has been responsible for rail electrification sales in Scandinavia, Finland and the Baltic States. Since 2011 he is working within Siemens in the field of innovative mobility solutions, first responsible for the business development of eHighway and since 2016 as Head of eHighway, in charge of the Siemens eHighway activities. eHighway is a system providing electric power continuously to heavy duty road vehicles and, amongst others, currently being realized in public demonstration projects in Sweden, the US and Germany.



Schedule

Time	Sept. 25 th 2017			Sept. 26 th 2017		
09:00						
09:15						
09:30						
09:45						
10:00	Welcome (Auditorium)			Keynote Prof. Alan McKinnon (Auditorium)		
10:15	Keynote Prof. Lóránt A. Tavasszy (Auditorium)			Production, Logistics and Traffic in an urban context (1)	Cooperation and Collaboration	New business models along the Supply Chain
10:30						
10:45						
11:00	Spatial patterns of Logistics and Freight Transport	Management of Production and Logistics Systems	Delivery Strategies	Lunch Break		
11:15						
11:30						
11:45						
12:00						
12:15						
12:30	Lunch Break			Keynote Hasso Georg Grünjes (Auditorium)		
12:45						
13:00						
13:15	Keynote Dr. Christian Langhagen-Rohrbach (Auditorium)			Production, Logistics and Traffic in an urban context (2)	Policy assessment in road freight transport	Innovations
13:30						
13:45						
14:00	Freight Transport Demand Modelling	Intralogistics	Application of Optimization and Planning models	Coffee Break		
14:15						
14:30						
14:45						
15:00						
15:15						
15:30	Coffee Break			Production, Logistics and Traffic in an urban context (3)	Intermodal Transport Chains	Incidents, Disruptions and Disasters
15:45						
16:00						
16:15	Understanding agent behaviour along the Supply Chains		Route Selection and Routing	Awarding (Auditorium)		
16:30				Closing (Auditorium)		
16:45						
17:00						
17:15						
17:30	Group picture (not mandatory) (Auditorium)					
17:45						
18:00						
18:15						
18:30						
18:45						
19:00	Dinner Reception					
19:15	Dinner Speech					
19:30	Dinner					

On September 26th in the aftermath of the conference, there will be a workshop of the WCTRS Special Interest Group B5 “Freight Transport Modelling” hosted by Prof. Hanno Friedrich at TU Darmstadt from 17:45 to 19:00. The room the workshop will take place in is S1|02 137. Directions are going to be given during the conference.

Session Composition

Session 1		
Room 1	Room 2	Auditorium
Spatial patterns of Logistics and Freight Transport	Management of Production and Logistics Systems	Delivery Strategies
Logistics sprawl in Chinese megacities: Evidence from Wuhan, China Quan Yuan et al. University of Southern California USA	Warehousing trends and challenges in omni-channel logistics Andreas Norrman et al. Lund University Sweden	Delivery (time) strategies in the independent automotive aftermarket Stephan Freichel Technische Hochschule Köln Germany
Tracking logistics locations – Distance-based methods for relative industrial concentration measurement applied to the region of Berlin-Brandenburg Jens Klauenberg et al. DLR Institute of Transport Research Germany	Simulation-based analysis of the effects of differences in demand on user behaviour in multi user warehouses Ralf Elbert et al. Technische Universität Darmstadt Germany	Identifying behaviourally homogenous groups in commercial traffic with vehicles under 3.5t total weight by using cluster analysis Heike Flämig et al. Hamburg University of Technology Germany
Warehouse location choice: A case study in Los Angeles, CA Sanggyun Kang University of Southern California USA	Energy-aware production management for storage-augmented production facilities Timm Weitzel et al. Technische Universität Darmstadt Germany	Last mile transport of fragmented deliveries: delivery preferences of nanostore owners Bram Kin et al. Vrije Universiteit Brussel Belgium

Session 2		
Room 1	Room 2	Auditorium
Freight Transport Demand Modeling	Intralogistics	Application of Optimization and Planning models
<p>A macroscopic freight transport demand model to analyse effects of transport planning in Germany</p> <p>Sandra Burgschweiger et al. DLR Institute of Transport Research Germany</p>	<p>A planning approach for the implementation of lean in-house transport systems in brownfield plants</p> <p>Joscha Kaiser et al. Technische Universität Darmstadt Germany</p>	<p>Big Data Analytics and Supply Chain Management – Insights from expert interviews</p> <p>Oliver Bischoff et al. Universität Kassel Germany</p>
<p>Shipment size modelling and the impact of latent class: comparison of French and German results</p> <p>Raphael Piendl et al. IFSTTAR France</p>	<p>Cognitive Ergonomics in the intralogistics sector</p> <p>Veronika Kretschmer et al. Fraunhofer Institute of Material Flow and Logistics Germany</p>	<p>Application of simulations and lean management in designing material flows in production systems</p> <p>Sanja Bojic et al. University of Novi Sad Serbia</p>
<p>Modelling the interrelation of supply chain structures and freight transport demand – The case of vertical disintegration in the German automotive industry</p> <p>Ole Ottemöller et al. Kühne Logistics University Germany</p>	<p>Stacking property based storage location assignment for minimising order picking lead time</p> <p>Tamás Bódis et al. Széchenyi István University Hungary</p>	<p>Hub location in intermodal distribution networks with economies of scale and service-level constraints</p> <p>Thitinan Pholsook et al. Technische Universität München Germany</p>

Session 3		
Room 1	Room 2	Auditorium
Understanding agent behaviour along the Supply Chains	Intermodal Transport Chains	Route Selection and Routing
<p>The influence of digitalization on the port choice behaviour – An analysis of decision-makers in South-West Germany</p> <p>Ralf Elbert et al. Technische Universität Darmstadt Germany</p>	<p>Improving cost efficiency and environmental impact by mixed freight and passengers railway transport</p> <p>Victoria Muerza et al. University of Zaragoza Spain</p>	<p>The impact of data accuracy for efficient and feasible routing plans</p> <p>Adrian Horvath Széchenyi István University Hungary</p>
<p>Individual corporate players' evaluation criteria of mobility alternatives: a repertory grid test approach.</p> <p>Christian Matt et al. Hamburg University of Technology Germany</p>	<p>Assessment of intermodal freight terminals with Key Performance Indicators integrated in the BIM process</p> <p>Pau Morales Fusco et al. Centre for Innovation in Transport Spain</p>	<p>Development of pareto-optimal transit routes in Afghanistan through mathematical algorithms</p> <p>Fawad Zazai et al. Helmut-Schmidt-Universität Germany</p>
<p>Delays and other Quality Characteristics of Transport Supply and their Impact on Mode Choice in Freight Traffic</p> <p>Anna-Katharina Brauner Technische Universität Darmstadt Germany</p>	<p>ILCO - Integrated logistics network for combined transport (in Austria)</p> <p>Andreas Käfer TRAFFIX Verkehrsplanung GmbH Austria</p>	

Session 4		
Room 1	Room 2	Auditorium
Production, Logistics and Traffic in an urban context (1)	Cooperation and Collaboration	New business models along the Supply Chain
<p>Long- and short-term effects of transport planning and logistics measures on urban freight transport</p> <p>Carina Thaller et al. Technische Universität Dortmund Germany</p>	<p>Geographical constraints as an incentive for actors to develop logistics pooling</p> <p>Claire Capo et al. Aix-Marseille University France</p>	<p>A dynamically controlled network for European truckload cargo industry</p> <p>Andy Apfelstädt et al. Fachhochschule Erfurt Germany</p>
<p>E-vehicles for urban distribution – why is it not happening yet? - Requirements of an innovative and sustainable urban logistics concept</p> <p>Anika Lobig et al. German Aerospace Center Germany</p>	<p>A cost and CO₂ comparison of using trains and higher capacity trucks when UK FMCG companies collaborate</p> <p>Andrew Palmer et al. Heriot Watt University United Kingdom</p>	<p>Alternative business models towards the promotion of electric mobility in sustainable smart cities (VALUE+)</p> <p>Harald Sieke et al. Fraunhofer Institute of Material Flow and Logistics Germany</p>
<p>High Performance Terminals for Zero Emission Transport and Logistics Services in mid-size Cities</p> <p>Hans G. Unseld et al. CargoInnovations Austria</p>	<p>Horizontal cooperation among Logistics Service Providers (LSPs) within the chemical industry and its effects on planning processes: a LSP's perspective</p> <p>Nadine Moritz et al. University of Applied Sciences Upper Austria Austria</p>	<p>A taxonomy of start-ups in the logistics industry</p> <p>Hanno Friedrich et al. Kühne Logistics University Germany</p>

Session 5		
Room 1	Room 2	Auditorium
Production, Logistics and Traffic in an urban context (2)	Policy assessment in road freight transport	Innovations
<p>Mobility behaviour of companies in urban areas: A triangulation approach to explore the potential for BEV</p> <p>Heike Flämig et al. Hamburg University of Technology Germany</p>	<p>Assessing the potential of truck platooning in short distances: the case study of Portugal</p> <p>Ricardo Pereira et al. Universidade de Lisboa Portugal</p>	<p>A concept of an Industry 4.0 research lab for future intralogistics technologies and services</p> <p>Aswin Karthik Ramachandran Venkatapathy et al. Technische Universität Dortmund Germany</p>
<p>Urban traffic congestion and freight transport: A comparative assessment of three European cities</p> <p>Michael Browne et al. University of Gothenburg Sweden</p>	<p>Scenario based analysis for intelligent transportation systems for road freight transport</p> <p>Ilja Bäumlner Universität Bremen Germany</p>	<p>The Impact of Deep-Financing on Supply Chain Competitiveness</p> <p>Hans-Christian Pfohl et al. Technische Universität Darmstadt Germany</p>
<p>Regulate, stimulate, innovate or co-create in an urban context: government bodies' quadrilemma</p> <p>Thomas Verlinden et al. University of Antwerp Belgium</p>	<p>Impact of higher maximum weights for lorries on modal split – ex-post analysis for Sweden</p> <p>Inge Vierth et al. VTI - Swedish Road and Transport Research Institute Sweden</p>	<p>Smart Baggage Services 4.0 – Concept for integrated baggage logistics services based on a Digital Twin</p> <p>Andreas Quick Fraunhofer IML Germany</p>

Session 6		
Room 1	Room 2	Auditorium
Production, Logistics and Traffic in an urban context (3)		Incidents, Disruptions and Disasters
Commercial traffic 2.0 - Analysis and recommendations of delivery strategies for the CEP industry in urban areas Kai-Oliver Schocke et al. Frankfurt University of Applied Sciences Germany		Dynamic freight flow modelling for risk evaluation in food supply Andreas Balster et al. Technische Universität Darmstadt Germany
Urban Factory – developing resource efficient factories in cities Felix Kreuz et al. Technische Universität Dortmund Germany		Concept on key enhancements on integrated tools for planning and logistics 4.0 in emergency response (KEPLER) Harald Sieke et al. Fraunhofer IML Germany
		Supply chain-based category strategies for global supply networks Nikos Moraitakis Technische Universität Darmstadt Germany

Contact

If you have any questions during the conference, please do not hesitate to talk to one of our numerous staff members. Staff members can be recognized as such by the word **Staff** on the conference name tag. Our staff members will surely help you out!

Listed below you can find the three executive assistants of the Conference Board with contacts in case of any emerging problem or question during your stay in Darmstadt and the course of the conference.

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