Official Program of the ICCL 2023

Day 1: Wednesday, 06.09.2023

8:30- 9:30	**Welcome and Opening** **Keynote: Efficient Railway Resource Allocation** **Prof. Ralf Borndörfer, Zuse Institute Berlin** **Chair: Stefan Voß** **Room: Technisches Kabinett**		
9:30- 10:00	*Coffee Break: Technisches Kabinett*		
10:00-11:00	**Maritime Shipping I** *Chair:* Dario Pacino *Room:* Technisches Kabinett	**Computational Logistics I** *Chair:* Pedro Paixao Borges *Room:* Hintere RPIF/Room 333	**Vehicle Routing I** *Chair:* Ilker Kucukoglu *Room:* Schwalbennest I+II
	024 Towards a Deep Reinforcement Learning Model of Master Bay Stowage Planning; *Jaike van Twiller, Djordje Grbic, Rune Møller Jensen*	045*EA* A Heuristic for Planning Mobile Parcel Locker Operations with Individual Customer Service; *Rico Kötschau, Ninja Soeffker, Jan Fabian Ehmke*	004 A Regret Policy For The Dynamic Vehicle Routing Problem with Time Windows; *Peter Dieter*
	025 The Dynamic RORO Stowage Planning Problem; *Alastair Main, Filipe Rodrigues, Dario Pacino*	061*EA* Optimizing Social Care Logistics to fight Hunger: a Facility Location Approach for installing Food Distribution Centers in Rio de Janeiro; *Pedro Paixao Borges, Luciana de Souza, Helena Ramalhinho*	006 A Tabu Search Algorithm for the Traveling Purchaser Problem with Transportation Time Limit; *Ilker Kucukoglu, Pieter Vansteenwegen, Dirk Cattrysse*
11:00-16:30	*Lunch and Visit at BER*		
16:30-18:00	**Maritime Shipping II** *Chair:* Kjetil Fagerholt *Room:* Technisches Kabinett	**Computational Logistics II** *Chair:* Hoong Chuin Lau *Room:* Hintere RPIF/Room 333	**Vehicle Routing II** *Chair:* Bülent Çatay *Room:* Schwalbennest I+II
	026 Allocation of Shore Side Electricity Among Grouped Container Terminals: The Case of the Port of Hamburg; *Jingjing Yu, Philip Cammin, Stefan Voß*	008 When Routing Meets Recommendation: Solving Dynamic Order Recommendations Problem in Peer-to-Peer Logistics Platforms; *Zhiqin Zhang, Waldy Joe, Yuyang Er, Hoong Chuin Lau*	062*EA* Electric Vehicle Routing Problem with Time Windows Considering Battery Degradation; *Raci Berk İslim, Bülent Çatay*

	030 Stockyard Storage Space Allocation in Dry Bulk Terminals Considering Mist Cannons and Energy Expenditure; *Xinyu Tang, Frederik Schulte*	063*EA* Scheduling Urban Infrastructure Renovation Projects to Minimize Traffic Disruption; *Robbert Bosch, Patricia Rogetzer, Wouter van Heeswijk, Martijn Mes*	053*EA* Electric Vehicle Routing Problem with a Time Limit and Recharging Stations: A More Realistic Approach; *Michella Saliba, Christian Blum, Mehmet Akbay*
	002 Planning LNG Annual Delivery Programs with Speed Optimization and Multiple Loading Ports; *Helle van Haug, Sigrid H. Solum, Sanna B. Warholm, Kjetil Fagerholt, Mingyu Li, Inge Norstad*	021 A Reactive-Periodic Hybrid Optimization for Internal Hospital Logistics; *Ebrahim Ehsanfar, Farzaneh Karami, Tim Kerkenhoff*	064*EA* Electric Vehicle Routing Problem with Time Windows and Mobile Charging Stations; *Bülent Çatay, Ihsan Sadati*
19:30- …	**Conference Dinner** at the **Schlosscafé Koepenick** (Dear Dinner attendees, please find the directions to the dinner location in your conference package)		

Day 2: Thursday, 07.09.2023

9:00-10:00	**Keynote: Managing Smooth Traffic for Tomorrow's Resilient Transportation: Task for Human or Virtual Operators?**		
	Prof. Michael Baldauf,		
	Chairperson of the Maritime Traffic and Navigation Commission		
	Chair: Xiaoning Shi **Room: Technisches Kabinett**		
10:00- 10:30	*Coffee Break: Technisches Kabinett*		
10:30-12:00	**Maritime Shipping III** *Chair:* Magnus Levinsen *Room:* Technisches Kabinett	**Public Transport I** *Chair:* Lin Xie *Room:* Hintere RPIF/Room 333	**Optimization and Routing** *Chair:* Andy Oakey *Room:* Schwalbennest I+II
	001 Tramp Ship Routing with Bunker Optimization and Flexible Cargo Quantities: Case from Dry Bulk Shipping; *Simen Omholt-Jensen, Kjetil Fagerholt, Frank Meisel*	037 Prediction and Analysis of Transit Ferries Travel Time: An Open Data-Based Case Study; *Malek Sarhani, Mohammed El Amrani, Abdelhak El Achhab, Jawad Abrache*	068*EA* A Robust Optimisation Approach to Model and Solve Problems with the Same Type of Data Uncertainty in Their Objective Function and Constraints; *Nader Azizi*
	044*EA* Metaheuristic for Stowage of Cargo on Ro-Ro Ships with Stability Requirements and IMO Restrictions; *Magnus Levinsen, Line Reinhardt, Dario Pacino*	011 A Bi-Objective Column Generation Approach for Real-World Rolling Stock Circulation Planning Problems*; Paul Päprer, Udo Buscher, Janis Neufeld*	058*EA* The Dynamic Same-Day Delivery Problem with Parking Times and Stochastic Customer Requests; *Ninja Soeffker, Sara Reed, Ann Melissa Campbell, Barrett W. Thomas*
	069*EA* Optimization on Integrated Inbound and Outbound Operations for a Coal Blending Sea Port; *Lanbo Zheng, Xin Tang*	038 An Effective Matheuristic Approach for Robust Bus Driver Rostering with Uncertain Daily Working Hours; *Abtin Nourmohammadzadeh, Stefan Voß*	046*EA* Establishing a Mixed-Mode Medical Logistics System with UAVs – A Novel Computational Approach with Realistic Constraints and Assumptions; *Andy Oakey, Antonio Martinez-Sykora, Tom Cherrett*
12:00-14:00	*Lunch Break: HSU Mensa Oase Adlershof*		
14:00-15:30	**Maritime Shipping IV** *Chair:* Rune Møller Jensen *Room:* Technisches Kabinett	**Combinatorial Optimization I** *Chair:* Malek Sarhani *Room:* Hintere RPIF/Room 333	**Vehicle Routing III** *Chair:* Robert van Steenbergen *Room:* Schwalbennest I+II
	019	003	051*EA*

	Digital Twins in Seaports: Current and Future Applications; *Julian Neugebauer, Leonard Heilig, Stefan Voß*	Operational Integration of Supply Chain Activities with Earliness and Tardiness Considerations; *Ece Çetin Yağmur, Saadettin Erhan Kesen*	Solving a Multi-Period Location-Routing Problem: Problem Analysis and Heuristic Approach; *Rui Borges Lopes*
	052*EA* Integrating Real-Life Constraints for Container Routing in Liner Services; *Marco Aurelio Costa Da Silva, Nabil Absi, Dominique Feillet, Azzedine Cheref, Hamza Ben Ticha, Pauline Mamour*	007 Constrained Multi-Agent Path Planning Problem; *Ali Maktabifard, Dávid Földes, Bendegúz Dezsõ Bak*	014 GRASP Solution Approach for the e-waste Collection Problem; *Aldy Gunawan, Dang Viet Anh Nguyen, Pham Kien Minh Nguyen, Pieter Vansteenwegen*
	054*EA* Reinforcement Learning in the Context of Container Terminals; *Merve Çolak, Leonard Heilig, Stefan Voß*	034 UAV Path Planning for Area Coverage and Energy Consumption in Oil and Gas Exploration Environment; *Salim Maaji Sulaiman, Dario Landa Silva*	023 The Heterogeneous Fleet Risk-constrained Vehicle Routing Problem in Humanitarian Logistics; *Robert van Steenbergen, Eduardo Lalla-Ruiz, Wouter van Heeswijk, Martijn Mes*
15:30-16:00	*Coffee Break: Technisches Kabinett*		
16:00-17:30	**Inland Waterways** *Chair:* Frederik Schulte *Room:* Technisches Kabinett	**Public Transport II** *Chair:* Frank Meisel *Room:* Hintere RPIF/Room 333	**Vehicle Routing IV** *Chair:* Rafael Praxedes *Room:* Schwalbennest I+II
		028 Beyond Cargo Hitching: Combined People and Freight Transport Using Dynamically Configurable Autonomous Vehicles; *Joris Kortekaas, Frederik Schulte, Breno Alves Beirigo*	031 The Snow Grooming Routing Problem; *Henrik Andersson, Jesper Anker Krogstad, Sondre Høyland, Truls Flatberg, Anders Gullhav*
	029 Using Neural Networks for ETA Prediction in Inland Waterway Transport; *Peter Wenzel, Frederik Schulte, Raka Jovanovic*	027 Impact of Public Transport Development on Health Care Services in Rural Areas; *Daniel Philipp, Joachim R. Daduna*	015 A Constraint Programming Model for the Vehicle Routing Problem with Multiple Time Windows; *Florian Linß*
	048*EA* Comparing Discrete and Hybrid Berth Allocation for Multipurpose Inland Waterway Terminals;	013 Ridesharing in Rural Areas with Autonomous Electric Vehicles and Interrelated Trips;	050*EA* Scheduling Automated Guided Vehicles: State of the Art, Challenges and Opportunities; *Francesco Gallesi, Rafael Praxedes, Manuel Iori,*

	Adnan Pasha, Rajat Rastogi, Jiyin Liu	Marvin Soth, Lennart C. Johnsen, Sebastian Scholz, Frank Meisel	Marco Locatelli, Anand Subramanian

Day 3: Friday, 08.09.2023

9:00-10:30	**Warehousing:** *Chair:* Shunji Tanaka *Room:* Technisches Kabinett	**Combinatorial Optimization II** *Chair:* Lucas Gana *Room:* Hintere RPIF/Room 333	**Vehicle Routing V** *Chair:* Abtin Nourmohammadzadeh *Room:* Schwalbennest I+II
	065*EA* Applying Reinforcement Learning to solve the Routing Problem in Mixed-Shelves Warehouses; *Lin Xie, Laurin Luttmann*	005 Minimizing Peak Energy Demand in Flexible Job Shops; *Michael Eley*	049*EA* A Robust Location-Routing Problem for Drone Delivery Applications; *Okan Dukkanci, İrfan Mahmutoğulları, Özlem Mahmutoğulları*
	047*EA* A Benders Decomposition Approach to the Parallel Stack Loading Problem; *Shunji Tanaka, Sven Boge*	035 Carbon-Aware Mine Planning with a Novel Multi-Objective Framework; *Nurul Asyikeen Binte Azhar, Aldy Gunawan, Shih-Fen Cheng, Erwin Leonardi*	059*EA* Anticipatory Request Acceptance in Dynamic and Collaborative Vehicle Routing; *Yannick Scherr, Margaretha Gansterer, Richard Hartl*
		039 Multi-Product Lot-Sizing and Scheduling Problem with Remanufacturing, Lost Sales and Changeover Cost; *Lucas Gana, Sebastián Dávila, Franco Quezada*	018 A Variable Neighborhood Search Algorithm for the Truck-Drone Routing Problem; *Batool Madani, Malick Ndiaye*
10:30-11:00	*Coffee Break: Technisches Kabinett*		
11:00-12:30	**Network Design** *Chair:* Simon Belieres *Room:* Technisches Kabinett	**Models and Applications** *Chair:* Xiaoning Shi *Room:* Hintere RPIF/Room 333	**Optimization** *Chair:* Niels De Walsche *Room:* Schwalbennest I+II
	056*EA* Hub Location and Network Expansion Problem; *Fran Setiawan, Tolga Bektas, Cagatay Iris*	010 Cybersecurity Considerations for the Design of a Digital Twin Enabled AI-Driven Real-Time Distributed Optimization of Container Carbon Emissions Reduction for Synchromodal Freight Operations; *Carlos Paternina-Arboleda, Alexander Nestler, Nicholas Kascak, Morteza Safaei Pour*	009*EA* Equilibrium Distributions and Performance Measures in Two-Phase Single-Server Queueing Systems: Derivation, Analysis and Application; *Yossi Luzon*
	057*EA* Scheduled Service Network Design with Hub Capacity Acquisition;	040 Customer's Choice in the Context of Cross-Border E-Commerce: An Application of SEM; *Yijia Liu, Xiaoning Shi*	020 A Radius-Based Approach for the Bi-Objective p-Center and p-Dispersion Problem;

	Simon Belieres, Mike Hewitt, Yannick Scherr		*Niels De Walsche, Carlo Sartori, Hatice Çalik*
12:00-14:00	*Lunch Break: HSU Mensa Oase Adlershof (optional tour through Adlershof)*		
14:00-15:00	**Keynote and Closing Ceremony** Chair Joachim R. Daduna incl. Paper 036 Successfully Using ChatGPT in Logistics: Are We There Yet?		

*Extended Abstracts are indicated by 000*EA*.