

15th ISIR SUMMER SCHOOL

International Society for Inventory Research

Monday 23 to Friday 27 August 2021

Luxembourg Centre for Logistics and Supply Chain Management – LCL

UNIVERSITY OF LUXEMBOURG – CAMPUS KIRCHBERG

PROGRAM

Monday 23 August

8:00	Covid Check
8:30	Welcome coffee
9:00	Opening session Prof. Joachim Arts (University of Luxembourg)
9:15	The story of ISIR and perspectives of inventory research Prof. Attila Chikan, ISIR
9:30	Keynote - Human machine interaction in supply chain decisions making Prof. Kai Hoberg (Kuehne Logistics University)
10:30	Coffee break
11:00	Strategic Behavior and Inventory Decisions (Nicole Perez Becker - University of Luxembourg) Student discussant: Navid Mohamadi Faculty discussant: Kai Hoberg
11:45	Extreme-value theory for large fork-join queues, with an application to high-tech supply chains (Mirjam Meijer - Eindhoven University of Technology) Student discussant: Sandria Weissshuhn Faculty discussant: Christina Imdahl
12:30	Lunch break
13:30	Keynote - Forecasting and inventory management: tips and tricks. Prof. Nikolaos Kourentzes (University of Skövde)
14:30	Forecasting Retailer Orders Using Point-of-Sales Data and Inventory Estimations (Tim Schlaich - Kuehne Logistics University) Student discussant: Olga Takacs Faculty discussant: Nikolaos Kourentzes

- 15:15 Coffee break
- 15:45 Inventory control for periodic intermittent demand (Sarah Van der Auweraer – University of Luxembourg)
- 17:30 Welcome reception at IKKI
19-21 Rives de Clausen L-2165 Luxembourg

Tuesday 24 August

8:00	Covid Check
8:30	Welcome coffee
9:00	Keynote - The impact of sensor technology on spare parts inventory management Prof. Gudrun Kiesmüller (Technical University of Munich)
10:00	Pricing and Inventory Management of Reusable Packages (Mahyar Taheri - Kuehne Logistics University) Student discussant: Melika Mohsenizadeh Faculty discussant: Benny Mantin
10:45	Coffee break
11:15	Reward Shaping to Improve the Performance of Deep Reinforcement Learning in Inventory Management (Bram De Moor - KU Leuven) Student discussant : Mirjam Meijer Faculty discussant : Willem van Jaarsveld
12:00	Distribution decisions in a dual sales channel setting for agricultural products with random yield (Nina Mayer - Kuehne Logistics University) Student discussant: Minh-Tam Tran Faculty discussant: Ruud Teunter
12:45	Lunch break
13:45	Presidential address : Prof. John Boylan (ISIR President)
14:00	A Data-driven Deep Reinforcement Learning Approach for Demand Fulfillment in Online Retail (Yihua Wang - Technical University of Munich) Student discussant: Lotte van Hezewijk Faculty discussant: Sandra Transchel
14:45	Coffee break
15:15	Industry Panel

Wednesday 25 August

Excursion day:

8:30	Covid Check
9:00	Departure by chartered bus from University of Luxembourg (Campus Kirchberg)
10:00	Company visit: CFL Multimodal
12:00	Lunch
14:00	Visit Centre de nature et forêt Biodiversum
15:00	Walk and sightseeing Schengen area
17:00	Wine cellar visit and wine tasting at Domaine Vinsmoselle / Caves Poll-Fabaire
19:00	Dinner
21:00	Return by chartered bus to University of Luxembourg

Thursday 26 August

8:00	Covid Check
8:30	Welcome coffee
9:00	Publishing Panel Prof. Teunter, Prof. Transchel, Prof. Kiesmüller, Prof. Boylan
10:00	Using Internet-of-Things Data at the Point-of-Consumption for Demand Forecasting and Inventory Management: The Case of Professional Coffee Machines (Sandria Weissshuhn - Kuehne Logistics University) Student discussant: Bram De Moor Faculty discussant: Stef Lemmens
10:45	Coffee break
11:15	Impact of Pandemics on Humanitarian's Retailing Operations: A Vouchers Case " (Navid Mohamadi - Kuehne Logistics University) Student discussant: Jana Ralfs Faculty discussant: Danja Sonntag
12:00	Optimization of user-based and operators-based inventory rebalancing operations in shared mobility (Melika Mohsenizadeh - Technical University of Munich) Student discussant: Tim Schlaich Faculty discussant: Cagil Kocyigit
12:45	Lunch break
13:45	Keynote - Deep reinforcement learning for inventory control. Prof. Willem van Jaarsveld (Eindhoven University of Technology)
15:00	Coffee break
15:30	Integrated Inventory and Pricing Decisions for an Omnichannel Retailing model under Cycle Service Levels" (Minh-Tam Tran - Emlyon Business School) Student discussant: Mahyar Taheri Faculty discussant: Dennis Prak

Friday 27 August

8:00	Covid Check
8:30	Welcome coffee
9:00	Keynote - Data drives us to battle the curse of dimensionality Prof. Joachim Arts (University of Luxembourg)
10:00	Changes of operational and financial indicators in the emerging digital manufacturing context - focusing on the automotive firms (Olga Takacs - Corvinus University of Budapest) Student discussant: Nina Mayer Faculty discussant: Patricia Rogetzer
10:45	Coffee break
11:15	Using the Proximal Policy Optimization algorithm for solving the stochastic capacitated lot sizing problem (Lotte van Hezewijk - Eindhoven University of Technology) Student discussant: Yihua Wang Faculty discussant: Joren Gijsbrechts
12:00	Closing remarks Prof. Joachim Arts (University of Luxembourg)
12:15	Closing lunch

ADDRESSES:

University of Luxembourg (Campus Kirchberg)

6 Rue Richard Coudenhove-Kalergi, 1359 Luxembourg

Coffee breaks and lunch

Cafeteria Restopolis - Campus Kirchberg (floor -1)
6 Rue Richard Coudenhove-Kalergi, 1359 Luxembourg

IKKI

19-21 Rives de Clausen L-2165 Luxembourg

CFL Multimodal

CFL multimodal Terminal Intermodal 100, Z.A.E. Wolser E L-3437 Dudelange

Restaurant Le Chalet

Breicherwee, 5441 Schengen

Centre de nature et forêt Biodiversum

5 Breicherwee, 5441 Schengen

Caves Poll- Fabaire

115 route du Vin L-5481 Wormeldange