

TWENTY-FIRST INTERNATIONAL
WORKING SEMINAR
ON
PRODUCTION ECONOMICS
FEBRUARY 24-28, 2020
INNSBRUCK
AUSTRIA

*Scientific Programme
&
List of Participants*

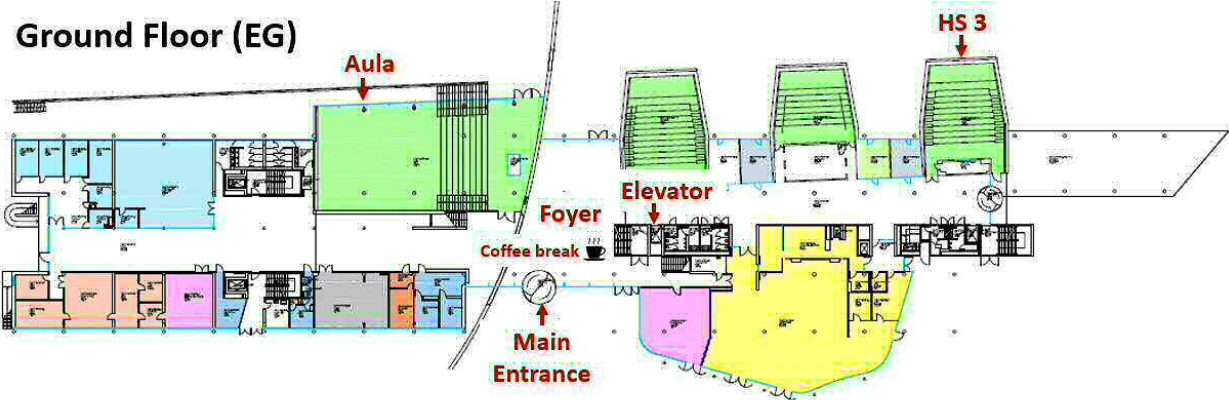
*University of Innsbruck, SOWI Building,
Universitätsstrasse 15
Innsbruck, Austria*

Organised by:
University of Innsbruck, Austria
Linköping University, Sweden

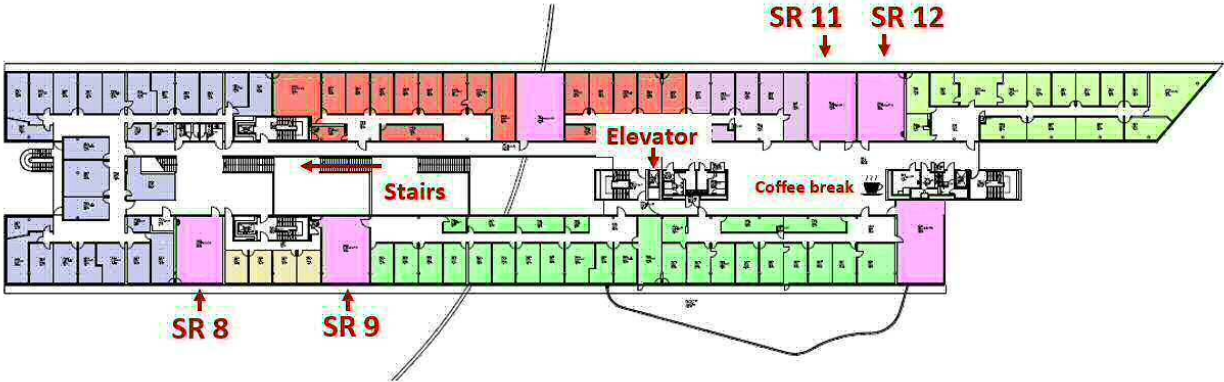


Seminar Venue

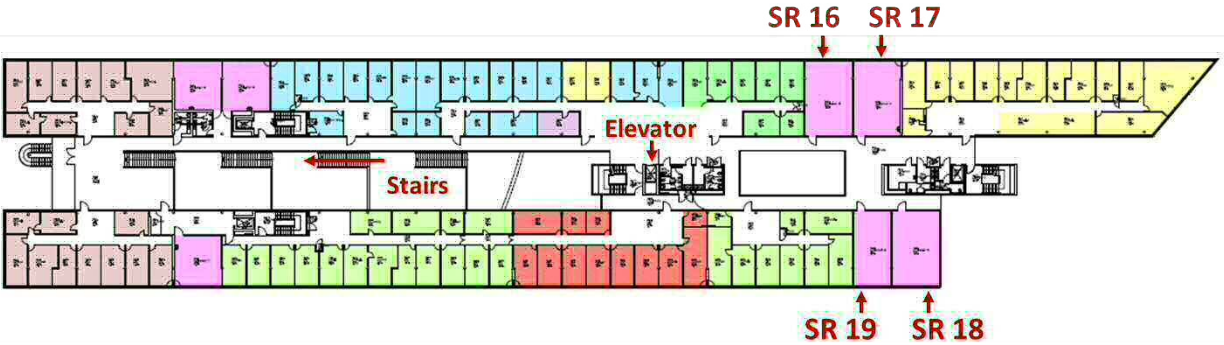
Ground Floor (EG)



3rd Floor



4th Floor



Overview of the Scientific Programme

| | |
|------------------------|----------------------------|
| February 24, Monday | |
| 18.00 | Reception and registration |
| February 25, Tuesday | |
| 08.00-9.00 | Opening session |
| 09.00-11.45 | Morning sessions A-G |
| 19.00-21.15 | Evening sessions A-G |
| February 26, Wednesday | |
| 08.00 -11.30 | Morning sessions A-G |
| 19.00-21.15 | Evening sessions A-G |
| February 27, Thursday | |
| 08.00 -11.30 | Morning sessions A-G |
| 18.00-19.30 | Evening sessions A-G |
| 20.00 – | Conference dinner |
| February 28, Friday | |
| 08.00-10.45 | Morning session C-G |
| 10.45-12.00 | Closing session |
| 12.00 - | Farewell cocktails |

Organisation Committee

Organisers

Professor Hubert Missbauer, Universität Innsbruck, Austria, hubert.missbauer@uibk.ac.at
Professor Ou Tang, Linköping University, Sweden, ou.tang@liu.se

Conference Administration

Quirin Ilmer, Universität Innsbruck, Austria
Vera Seger, Universität Innsbruck, Austria

Co-organisers

J. Lundquist, Linköping Institute of Technology
S. Minner, Technische Universität München
G. Reiner, WU Vienna

Advisory Committee

R.W. Grubbström, Linköping Institute of Technology
H. H. Hinterhuber, Universität Innsbruck
M. Bogataj, University of Ljubljana
A. Chikán, Corvinus University, Budapest
G. Fandel, Fern-Universität Hagen
L. Gelders, Katholieke Universiteit, Leuven
Ch. O'Brien, Nottingham University
C. Pappis, University of Piraeus
L. Peccati, Università Commerciale Luigi Bocconi, Milan
J.E. Rowcroft, University of New Brunswick
M. Tuominen, Lappeenranta University of Technology
S.M. Wagner, Eidgenössische Technische Hochschule, Zürich
D.C. Whybark, University of North Carolina, Chapel Hill

Committee members

P. Agrell, Katholieke Universiteit, Leuven
D. Çelebi, Istanbul Technical University
D. Battini, University of Padova
T. de Kok, Eindhoven University of Technology
K. Demeter, Corvinus University of Budapest
A. Diabat, New York University Abu Dhabi
H. Ding, Beijing Jiaotong University
A. Dolgui, IMT Atlantique
J. Hallikas, Lappeenranta University of Technology
R. F. Hartl, Universität Wien
G. Lo Nigro, Università di Palermo
H. Matsukawa, Keio University
M. M. Naim, Cardiff University
C. (Victor), Shi, Wilfrid Laurier University
D. Robb, The University of Auckland Business School
M.-L. Tseng, Asia University
R.H. Teunter, Rijksuniversiteit Groningen
R. Uzsoy, North Carolina State University
S. Zanoni, Università degli Studi di Brescia

Tuesday Morning

8.00–9.00 Opening Session (Aula)

Chairman: Univ.-Prof. Dr. Hubert Missbauer, University of Innsbruck

Univ.-Prof. Dr. Bernhard Fügenschuh, Vice-Rector for Student Affairs and Teaching, University of Innsbruck

Univ.-Prof. Dr. Matthias Bank, Dean of the Faculty of Business and Management, University of Innsbruck

Univ.-Prof. Dr. Drs.h.c. Robert W. Grubbström, Linköping Institute of Technology

Keynote address: Looking back on our 'Igis' Seminar through the years

| | Stream A (SR8) Green Growth | Stream B (SR9) Planning Production and Inventories under Stochastic Demand | Stream C (SR11) General Production Economics | Stream D (SR12) Industry 4.0 |
|-------------|--|--|--|--|
| 9.00–9.45 | Chairman: Ming-Lang Tseng Kuen-Suan Chen, Ching-Hsin Wang, Kimhua Tan Fuzzy supplier selection model based on lifetime performance index <i>Discussant: Alexander Trauttrims</i> | Chairman: Reha Uzsoy Stefan Creemers and Robert Boute A new method to optimize the joint replenishment problem <i>Discussant: Annemarie Falke</i> | Chairman: Robert N. Boute Tan de Kok Modelling stochastic capacitated multi-item multi-echelon systems | Chairman: Hin Kai Chan Yingli Wang Critical Success Factors for blockchain implementation in supply chain <i>Discussant: Bangqiang Zhi</i> |
| 9.45–10.15 | Coffee Break | | | |
| 10.15–11.00 | Guangyang Yang, Guojun Ji, Kim Hua Tan Product architecture decision based on carbon emission regulations <i>Discussant: Christian Hicks</i> | Tarik Aouam, Foad Ghadimi Capacity allocation and safety stock placement with budget and storage space constraints under the guaranteed service approach <i>Discussant: Chunyou Wu</i> | Robert Boute, Stephen Disney, Jan Van Mieghem Global dual sourcing under correlated demand <i>Discussant: Li Zhou</i> | Minna Saunila, Juhani Ukko, Sari Seelä Sore, Mina Nasiri, Tero Rantala, Hannu Rantanen Digital business strategy, technology scanning and company performance <i>Discussant: Dominic Loske</i> |
| 11.00–11.45 | Chunyi Lin, Kuo-Jui Wu, Ming-Lang Tseng Municipal solid waste management in the circular economy: a data-driven bibliometric analysis <i>Discussant: Violetta Giada Cannas</i> | Albey Erinc, Kempf Karl G., Uzsoy Reha A Lagrangian Approach for Stochastic Multiproduct Production Planning with Forecast Evolution <i>Discussant: Chuanwen Dong</i> | Joren Gijbrechts, Robert N. Boute, Stephen M. Disney, Jan A. Van Mieghem Local Supply Inflexibility in Dual-Source Supply Chains: Optimal policy and Cost Implications. <i>Discussant: Deniz Uztürk</i> | Arttu Lauhkonen, Ville Hinkka, Harri Pyykkö Emerging digital technologies as enablers for renewal of last-mile distribution logistics solutions <i>Discussant: Dennis Prak</i> |
| | Stream E (SR16) Sustainable Operations Chairman: Gerald Reiner 9.00–9.45 Jan Riezebos, Stuart Zhu Seasonal lead times in supply chain management <i>Discussant: Bela-Gergely Racz</i> | Stream F (SR17) Production Planning Chairman: Renzo Akkerman Nathalie Vanvuchelen, Joren Gijbrechts, Robert Boute Proximal Policy Optimization to the Joint Replenishment Problem <i>Discussant: Renzo Akkerman</i> | Stream G (SR18) Digital Manufacturing Chairman: Attila Chikan Attila Chikan, Erzsébet Czako, Bence Kiss-Dobronyi, David Losonci Firm Competitiveness: a General Model and a Manufacturing Application in the Age of Digitalization <i>Discussant: Ching-Hsin Wang</i> | |
| 9.45–10.15 | Coffee Break | | | |
| 10.15–11.00 | Romana Berariu, Christian Fikar, Gerald Reiner Impact of e-grocery delivery concepts on food waste <i>Discussant: Daria Battini</i> | Alexander Lohr, Hubert Missbauer Integrated Planning and Scheduling of the Steel Production Processes Continuous Casting and Hot Rolling – Literature Review, Model Formulation, Algorithmic Insights <i>Discussant: Erinc Albey</i> | | Livio Cricelli, Michele Grimaldi, Silvia Vermicelli Crowdsourcing for production: a conceptual framework based on the literature review <i>Discussant: Jan Riezebos</i> |
| 11.00–11.45 | | Pia Netzer, Stefan Hoesussier, Hubert Missbauer Integration of Order Acceptance into Optimization Based Order Release models <i>Discussant: Emanuele Borgonovo</i> | | |

Tuesday Evening

| | Stream A (SR8) | Stream B (SR9) | Stream C (SR11) | Stream D (SR12) |
|-------------|---|--|---|---|
| | Green Growth Chairman: Ming-Lang Tseng | Decision Support Systems Chairman: Stefan Minner | Supply Chain Operations Chairman: Stephen M. Disney | Industry 4.0 Chairman: Ruud Teunter |
| 19.00-19.45 | Kuen-Suan Chen, Ming-Lang Tseng, Ching-Hsin, Wang, Yu-Chi Li | Joost Goedhart René Haijema | Sarah Van der Auweraer, Sha Zhu, Robert Bouste | Aki Jääskeläinen, Tommi Mahlamäki, Risto Raunio |
| | Confidence interval-based fuzzy testing for Taguchi capability index with asymmetric tolerances | Modelling inventory management for an omni-channel retailer | The value of dynamic spare part inventory control using installed base information | Digital solution for information exchange in a supply network |
| | <i>Discussant: Yingli Wang</i> | <i>Discussant: Livio Cricelli</i> | <i>Discussant: Stephen Disney</i> | <i>Discussant: Nathalie Vanvuchelen</i> |
| 19.45-20.30 | Sir Y. Lee, J. Hu, Ming K. Lim | Emad Alharbi, Layek Abdel-Malek | Margaretha Gansterer, Patrick Födermayr, Richard F. Hartl | W. Patrick Neumann, Sven Winkelhaus, Christoph H. Glock, Eric H. Grosse |
| | Maximising the circular economy and sustainability performance for supply chain selection: a multi-objective programming approach based on the fuzzy AHP-TOPSIS | Decision Support System for enhancing the adoptability of Continuous Descent Arrival (CDA) at Airports | The collaborative capacitated multi-level lot sizing problem | Industry 4.0 and the Human Factor – A Systems Framework for Successful Development |
| | <i>Discussant: Harri Pyykkö</i> | <i>Discussant: Fabio Sparbasso</i> | <i>Discussant: Juhani Ukko</i> | <i>Discussant: Romana Berariu</i> |
| 20.30-21.15 | | Laurens Deprez, Katrien Antonio, Robert Bouste | Jaiji Li, Yuvraj Gajpal, S.S. Appadoo | Heletje E. van Staden, Robert N. Boute |
| | | Full-service maintenance contracts for capital goods: an empirical analysis | Maximizing revenue under competition in Two-agent scheduling problem | The effect of multi-sensor data on condition-based maintenance policies |
| | | <i>Discussant: Fangli Zeng</i> | <i>Discussant: Zengwen Yan</i> | <i>Discussant: Ruud Teunter</i> |
| | Stream E (SR16) | Stream F (SR17) | Stream G (SR18) | |
| | Humanitarian and Sustainable Operations Chairman: Marija Bogataj | Production Planning Chairman: Alexandre Dolgui | Supply Chain Operations Chairman: Giovanni Lo Nigro | |
| 19.00-19.45 | Biran Darshana Hettiarachchi, Stefan Seuring-Stella, Jayani Ishara Sudasinghe, Philipp C. Sauer | Cevdet Utku Safak, Gorkem Yilmaz, Erinc Albey | Giovanna Lo Nigro, Kevin Li, Lorenzo Abbate | |
| | Additive Manufacturing Implementation in Circular Economy Context | A Column Generation Heuristic for Simultaneous Lot Sizing and Scheduling with Secondary Resources and Setup Carryovers | The interplay of reciprocity propensity and inequality aversion in two-person games | |
| | <i>Discussant: Gerald Reiner</i> | <i>Discussant: Gianluca Riglietti</i> | <i>Discussant: Xiaoli Lu</i> | |
| 19.45-20.30 | Enrique Garcia Villareal, Ran Bhamra, Chris Hicks | Mika Immonen, Heidi Huuskonen, Jouni Koivuniemi, Jukka Hallikas | Marko Budler, Peter Trkman | |
| | Improving sales and operations planning in a German medical technology OEM using critical success factors | Exploiting machine learning to test service supply scenarios: Case of a rescue department | Cooperation-based scenarios for the management of supply chain networks | |
| | <i>Discussant: Georg Otto Mueller</i> | <i>Discussant: Gorkem Yilmaz</i> | <i>Discussant: Joren Gijbrecchts</i> | |
| 20.30-21.15 | | Karel van Donselaar, Rob Broekmeulen, Ton de Kok | Michael Winter, Herrmann Lödging | |
| | | Heuristics for setting reorder levels in inventory systems with an aggregate service restriction | Modeling Logistic Operating Curves for Batch Workstations | |
| | <i>Discussant: Giovanni Francesco Massari</i> | <i>Discussant: Taka Hosoda</i> | | |

Wednesday Morning Part I

| | Stream A (SR8) | Stream B (SR9) | Stream C (SR11) | Stream D (SR12) |
|-------------|--|---|---|--|
| 8.00-8.45 | Engineer and Configure to Order systems Chairman: Mohamed M. Naim Nikolas Käkelä, Joakim Wikner | Production Planning and Control Chairman: Taka Hosoda Darya Filatova | Production Planning and Control Chairman: Matthias Wichmann Zsuzsanna Hauck, Boualem Rabta, Gerald Reiner | Decision Support Systems Chairman: Patricia Rogetzer Rifat Ozdemir, Ilkan Sarigol, Sarah AlMutairi, Sarah AlMee, Abrar Murad, Aseel Noaj, and Noor |
| | Introducing a business boundary to solution spaces for customization | Sustainable supply chain management under stochastic demand and guaranteed quality requirement | Joint quality and pricing decisions in inventory models with defective items | Fuzzy Mathematical Model for Assembly Line Balancing with Ergonomics Risks Consideration |
| 8.45-9.30 | <i>Discussant: Laurens Deprez</i> Violetta Giada Cannas, Rossella Pozzi, Tommaso Rossi | <i>Discussant: Mika Immonen</i> Robert Brachmann, Rainer Kollisch | <i>Discussant: Helelje Van Staden</i> Klaus Altendorfer, Thomas Felberbauer, Sarah Zeiml | <i>Discussant: Nicola Berti</i> Jesus Mario Verdugo Cedeño, Lea Hannola and Ville Ojanen |
| 9.30-10.00 | Coffee Break | | | |
| 10.00-10.45 | Barriers to Predictive Maintenance implementation in the Italian machinery industry <i>Discussant: Hafez Shurrab</i> Georg Otto Mueller, Christian Alexander Bertram, Niels Henrik Mortensen | Multi-Project Scheduling for Engineer-to-Order Production <i>Discussant: Karel van Donselaar</i> Frank Benda, Roland Braune, Karl F. Dörner, Richard F. Hartl | Systematic forecast error correction to improve production order accuracy in a biased forecast evolution system <i>Discussant: Ran Bhamra</i> Ralf Gössinger, Jacqueline Wand | The SERVITIST Method for Service Design: A Lifecycle Approach for Data-driven Service Innovation <i>Discussant: Matthias Klumpp</i> Julian M. Müller, Nikolai Kazantsev, Rubina Romanello, Gilson Adamczuk Oliveira, Morteza |
| 10.45-11.30 | Enabling comparison across Engineer-To-Order projects: Building a data model from historical data to reveal best practices <i>Discussant: Michael Winter</i> Jonathan Gosling, Violetta Giada Cannas | A Genetic Programming Approach for Flexible Shop Scheduling Problems with Single-tree and Multi-tree Representation <i>Discussant: Helelje Van Staden</i> Marialuisa Menanno, Muhammad Shafiq, Bruno Alessandro, Matteo M. Savino | Price bundling considering discrete customer segments and different types of capacity <i>Discussant: Aki Jääskeläinen</i> Ralf Gössinger, Jana Plitt | Integration Model for Industry 4.0 from Multiple SMEs worldwide <i>Discussant: Margaretha Gansterer</i> Davide Aloini, Andrea Collado, Peter Gloor, Emanuele Guerrazzi, Alessandro Stefanini |
| | A Decade of Engineering-to-Order: Progress and Emerging Themes <i>Discussant: Joost Goedhart</i> | Exploring the impact of costs, travel time and CO2 emissions within a hybrid aisle-line warehouse through Genetic Algorithms <i>Discussant: Henry van Ooijen</i> | Optimization-based order release in engineer-to-order systems – a rolling horizon approach <i>Discussant: Imre Dimény</i> | Coordination dynamics in a Logistic Hub: an exploration by wearable sensors <i>Discussant: Jiayao Hu</i> |

Wednesday Morning Part II

| | Stream E (SR16) | Stream F (SR17) | Stream G (SR18) |
|-------------|---|--|--|
| | General Production Economics Chairman: Sarah Van der Auweraer | Sustainable Operations Chairman: Fabio Sgarbosa | Closed Loop Supply Chains Chairman: Li Zhou |
| 8:00-8:45 | Stephanie Hui-Wen Chuah, Chia-Chun Hsieh, Mi-Yeh Chiang, Min-Tsung Chen Managing the dark side of sharing economy: Does corporate social responsibility work? | Wai-Peng Wong, Chandra Sinnadavar, Keng-Lin Soh The relationship between supply environment, supply chain integration and operational performance: The role of business process in curbing opportunistic behavior | Jayani Ishara Sudasinghe, Stefan Seuring-Stella, Birnan Darshana Hettiarachchi, Philipp C Sauer Collaboration for the implementation of circular thinking in supply chains |
| 8:45-9:30 | <i>Discussant: Michele Grimaldi</i> Jookim Wikner and Fredrik Persson | <i>Discussant: Eleonora Florian</i> Dian Trihastuti, James S. Noble and Christine Costello Supply chain design from a three-dimensional sustainability perspective | <i>Discussant: Silvia Zuin</i> Evgeniya Tsytsyyna, Veli Matti Virralainen, Katrina Lintukangas Prospects for construction and demolition wastes circulation |
| 9:30-10:00 | <i>Discussant: Yeming Gong</i> Coffee Break | <i>Discussant: Dominic Loske</i> | <i>Discussant: Manuel Schneckentreiter</i> |
| 10:00-10:45 | Stefano Spinelli, Rossella Pozzi, Fernanda Strozzi Recurrence Quantification Analysis to mitigate the effect of minor stops on Overall Equipment Effectiveness | Ilkan Sarigol, Rifat Ozdemir, Amal AlAjmi, Anwar AlShammari, Mariam AlKafeef, Mona Bukhsh and Real-life crew rostering problem in airlines with employee preferences | Xiaoyu Gu, Hongfu Huang, Li Zhou Developing a Subsidy Strategy in Promoting Electric Vehicle Battery Secondary Use Closed Loop Supply Chain |
| 10:45-11:30 | <i>Discussant: Hing Kai Chan</i> Ilaria Giannoccaro, Luca Fraccascia, Valeria Zaza A framework to design industrial symbiosis networks in Italian Regions | <i>Discussant: Iqra Sadaf Khan</i> Giovanni Favara, Giovanna Lo Nigro Supply chain finance: the role of credit rating and retailer effort on optimal coordination contracts | <i>Discussant: Qiuping Ma</i> Malahat Ghoreishi, Ari Happonen, Mikko Pynnönen Exploring industry 4.0 technologies to support circularity in textile industry: role of Internet of Things |
| | <i>Discussant: Sarah Van der Auweraer</i> | <i>Discussant: Veli Matti Virralainen</i> | <i>Discussant: Joren Gijssbrechts</i> |

Wednesday Evening

| | Stream A (SR8) | Stream B (SR9) | Stream C (SR11) | Stream D (SR12) |
|-------------|--|--|---|--|
| 19:00-19:45 | Engineer and Configure to Order systems Chairman: Mohamed M. Naim Vijay Kumar, Rudrajeet Pal, Sara Harper | Maritime Logistics Chairman: Ali Diabat Fangli Zeng, Hing Kai Chan | Performance Measurement Chairman: Krisztina Demeter Manuel Herrera Rodriguez, Per J. Agrell, Casiano Manrique-de-Lara-Pefate, Lourdes Trujillo | Industry 4.0 Chairman: Victor C. Shi Fabio Sgarbosa, Mirco Peron, Francesco Lolli, Elio Balugani |
| 20:30-21:15 | A data-driven approach to incorporate multi-level input in Interpretive Structural Modelling with a case example in small-series supply chain network configuration <i>Discussant: Emad Alharbi</i> Hafez Shurrab, Patrik Jonsson | Understanding the adoption of Open Platform for booking in the container shipping industry <i>Discussant: Aida Jebali</i> Nabil Kenan, Aida Jebali, Noura Al-Dhaheiri | Liner Ship Fleet Deployment Model Under Varying Cost of Time: a Bi-criterion Formulation <i>Discussant: Jan Rzezebo</i> Adrian Small, Chris Hicks, Tom McGovern and Tracy Scurry, Newcastle University Business School. | Impact of 3D printing on spare parts inventory management <i>Discussant: Darya Filatova</i> Maximilian Kunovjanek, Gerald Reiner |
| 20:30-21:15 | Sales and operations planning under uncertain demand for medium-term engineering capacity in engineer-to-order environments <i>Discussant: Biman Darshana Hettiarachchi</i> Erlend Alfnes, Jonathan Gosling, Heidi Dreyer and Mohamed Naim | Joint quay crane assignment and scheduling with consideration of carbon taxation <i>Discussant: Pairach Piboonrungraj</i> Omar Abou Kasm, Ali Diabat | Evaluating and improving the performance of automotive distribution through the development of a hierarchical model and the application of Lean. <i>Discussant: Fernanda Strazzi</i> Tibor Kovács, Andrea Ko | Impact of additive manufacturing on inventory management – A simulation based analysis <i>Discussant: Malahat Ghoreishi</i> Christian Wankmüller, Maximilian Kunovjanek, Gerald Reiner |
| 19:45-20:30 | Systemic factors creating uncertainty in engineer- and configure-to-order ship building supply chains <i>Discussant: Marko Budler</i> | Tugboat scheduling with pilotage constraints <i>Discussant: Eric Grosse</i> | Big data analytics to improve firms' performance monitoring: A case study from a multi-product biorefinery <i>Discussant: Robert Brachmann</i> | How may blockchain technology mitigate the bullwhip effect in supply chains? <i>Discussant: Mariangela Piazza</i> |
| 19:00-19:45 | Sustainable Operations Chairman: Giovanan Lo Nigro Thomas Stäblein | General Production Economics Chairman: Li Zhou Takamichi Hosoda, Stephen M. Disney, Li Zhou | Supply Chain Operations Chairman: Gyöngyi Vörösmarty Francisco Campuzano-Bolarin, Fulgencio Marín-García, José Andrés Moreno-Nicolás, | |
| 19:45-20:30 | MRP-based scheduling in build-to-order automotive manufacturing: An application of interval analysis <i>Discussant: Fredrik Persson</i> Xiaoying Tang, Yong He | Challenges within Closed-Loop Supply Chains: Remedies for the Conflict between Sustainability and System-wide Cost <i>Discussant: James Noble</i> Peng Zhang, Victor Shi | Procurement policies in the spatial duopoly that define market areas for stochastic values of quantity of demand and Poisson arrival processes <i>Discussant: Stephanie Bayard</i> Beatrice Marchi, Simone Zanoni, Lucio E. Zavanella, Sanchay Das, Layek Abdel-Halek | |
| 20:30-21:15 | Supply chain coordination in industrial symbiosis networks with uncertain waste demand and supply <i>Discussant: Azar MahmoudGonbadi</i> Alok Raj, Nikunj Mohan Modak, Peter Kelle | Optimal channel choice for a manufacturer in sharing economy <i>Discussant: Mari Luisa Menanno</i> Gianluca Riglietti, Paolo Trucco | Managing inventory of age-value products in a segmented system with value pricing <i>Discussant: Serena Finco</i> Paolo Roma, Umberto Panniello, Giovanna Lo Nigro, Maria Vasi | |
| | Impact of information sharing in a vertical green supply chain with duopoly retailers <i>Discussant: Klaus Altendorfer</i> | The contribution of Business Continuity Management (BCM) to Supply Chain Resilience: a quantitative study <i>Discussant: Jesus Mario Verdugo Cedeno</i> | Sharing economy and incumbents' pricing: Is the impact of Airbnb on the hotel industry time-dependent <i>Discussant: Yuvraj Gajpal</i> | |

Thursday Morning Part I

| | Stream A (SR8) | Stream B (SR9) | Stream C (SR11) | Stream D (SR12) |
|-------------|---|---|---|---|
| 8.00-8.45 | <p>Closed Loop Supply Chains Chairman: Daria Battini Ioannis Konstantaras, Konstantina Skouri, Lakdere Benkherouf</p> | <p>Decision Support Systems Chairman: Per Agrell Karen Moons, Wim De Gang, Axelle Oor, Geert Woeyenbergh, Dirk De Ridder, Liliane Pintelon</p> | <p>General Production Economics Chairman: Andrea Ko Lujie Chen, Taiyu Li, Tianyu Zhang, Jia Fu</p> | <p>Industry 4.0 Chairman: Kevin W. Li Tamás Koltai, Imre Dimény, Viola Gallina, Alexander Gao, Chiara Sepe</p> |
| 8.45-9.30 | <p>Optimal ordering decision for a closed loop supply chain system under carbon tax regulatory mechanism <i>Discussant: Jayani Ishara Sudasinghe</i> Xianpei Hong, Xinlu Cao, Yeming (Yale) Gong</p> | <p>Measuring the performance of different distribution strategies in the operating theatre – a simulation case study <i>Discussant: Jacqueline Wand</i> Dominic Loske, Matthias Klumpp</p> | <p>Supply chain leadership and company performance: A meta-analysis perspective <i>Discussant: Luca Fraccascia</i> Robert W. Grubbström</p> | <p>Change of operating characteristics when robots added to human operated simple assembly lines <i>Discussant: Vijay Kumar</i> Chih Teng, Peter O'Neill, Chris Hicks, Amrik Sohal</p> |
| 9.30-10.00 | <p>To share or not to share? The role of retailer's information sharing in remanufacturing <i>Discussant: Frank Bend</i> Coffee Break</p> | <p>Human-AI collaboration in route planning: An empirical efficiency-based analysis in retail logistics <i>Discussant: Per Agrell</i></p> | <p>Production decisions based on absolute vs relative risk aversion: a comparison <i>Discussant: Rifat Ozdemir</i></p> | <p>Mass customization of cellular therapies: challenges from a new industry <i>Discussant: Nikolai Kazantsev</i></p> |
| 10.00-10.45 | <p>Analysis of incentives for the collection of end-of-life products in closed-loop supply chains under information asymmetry <i>Discussant: Alessandro Stefanini</i> Zhi Liu, Kevin W. Li, Ben-gang Gong, Juan Tang, Yu Chen</p> | <p>Impact of human-robot interaction in Automated Guided Vehicle system design <i>Discussant: Xiaoyu Gu</i> Matthias Klumpp, Dominic Loske</p> | <p>Supply Chain Partner Involved Dynamically Integrated Multi-project Planning and Scheduling <i>Discussant: Andrea Ko</i> Rossella Pozzi, Tommaso Rossi, Matteo Salani</p> | <p>Adoption of Emerging Technologies in Chinese Supply Chains: How Past Experiences Assist in Shaping the Future <i>Discussant: Ilkan Sarigol</i> Iqra Khan, Marko Jurmu, Marko Jurvansuu, Susanna Pirittikangas, Johan Lilius, Bogdan Ianca, Osmo Kauppila, Mikko Koho, Erno Marjokangas, Jukka Majava</p> |
| 10.45-11.30 | <p>Collection and Remanufacturing Strategies in a Closed-loop Supply Chain under Dual Regulations <i>Discussant: Evgeniya Tsytsyna</i></p> | <p>Survival of the fittest? The role of individual performance capability in manual and automated order picking systems <i>Discussant: Jana Plitt</i></p> | <p>Economic production quantity (EPQ) inventory model in a pull managed single-machine multi-item system <i>Discussant: Chuah Stephanie Hui-Wen</i></p> | <p>Collaborative innovation, collaborative capabilities and value co-creation in industry 4.0 context: An empirical evidence <i>Discussant: Kevin W. Li</i></p> |

Thursday Morning Part II

| | Stream E (SR16) | Stream F (SR17) | Stream G (SR18) |
|-------------|---|--|--|
| 8.00-8.45 | Performance Measurement Chairman: Matthias Klumpp Michele Grimaldi, Livio Cricelli, Marco Greco, Francesco Rogo An Investigation of Productivity in Product Design & Engineering <i>Discussant: Manuel Herrera Rodriguez</i> Qianyun Wen, Yang Liu | Sustainable Operations Chairman: Yang Liu Cejun Cao, Yang Liu, Ou Tang A fuzzy bi-level programming model for sustainable humanitarian relief supply chain <i>Discussant: Tom Foster</i> Jin Li, Victor Shi, Senjing Zhai | Production Planning and Control Chairman: James Noble J. Will M. Bertrand, Henry P.G. van Ooijen The cost optimal lead time and demand in case capacity can be adjusted on the short term <i>Discussant: Thomas Stäblein</i> Juryi Lin, Li Zhou, Virginia Spiegler, Mohamed Naim, Aris Syntetos |
| 9.30-10.00 | Generalized Approach of Building Energy Prediction by Light Gradient Boosting Machine <i>Discussant: Joakim Wikner</i> Coffee Break | Manufacturer's Encroachment Strategy with Substitutable Green Products <i>Discussant: Jon Gosling</i> | Push or Pull? An exploration of the system dynamics of a hybrid manufacturing and remanufacturing system <i>Discussant: Julian M. Müller</i> |
| 10.00-10.45 | Roberto Rocca, Luca Furnagalli An overview of Circular Economy paradigm in the cosmetic sector <i>Discussant: Ioannis Konstantaras</i> Chuanwen DONG, Dong LI | Julie Donovan, Pavel Castka Understanding Servitization Transition in small manufacturing firms: a longitudinal case-based study <i>Discussant: Judit Nagy</i> | Gazi Uddin, Ou Tang, Maziar Sahamkhadam, Muhammad Yarya, Pontus Cerin, Jakob Rehme Analysis of Forecasting Models of Electricity Markets under Volatility <i>Discussant: Jyri Vilko</i> Ruud Teunter, Guowei Hua, Stefan Kuipers, Luoyi Sun Inventory control with demand substitution |
| 10.45-11.30 | Achieving economic and environmental sustainability: freight modal shift, contracts, and carbon regulations <i>Discussant: Zsuzsanna Hauck</i> | | <i>Discussant: Food Ghadimi</i> |

Thursday Evening

| | | | | |
|-------------|--|--|--|--|
| 18.00-18.45 | Stream A (SR8) Decision Support Systems Chairman: Mariangela Piazza Giovanni Francesco Massari, Ilaria Giannoccaro | Stream B (SR9) Decision Support Systems Chairman: Napat Harpornchai Silvia Zuin, Robin Hanson, Daria Battini, Alessandro Persona | Stream C (SR11) Industry 4.0 Chairman: Christian Hicks M'hamed Sahnoun, Naihui He, Belgacem Bettayeb, David Zhang, Mario Gonzalez Romo, Souleymane Moussa | Stream D (SR12) Industry 4.0 Chairman: Dilay Çelebi Qiuping Ma, Hongyan Jenny Li |
| 18.45-19.30 | Investigating the effect of cooperation strategy on supply chain resilience in complex environments <i>Discussant: Xue Liu</i> Erica Mazzola, Mariangela Piazza, Giovanna Lo Nigro | Integrated decision process and methodological framework to design AGV systems in shared manufacturing environments <i>Discussant: Kim De Boeck</i> M. Asghari a, S.M.J. Mirzapour Ale-hashem, S. Ghorbani, Y. Rezik | Integrated Scheduling of Machines and AGVs in Flexible Manufacturing System <i>Discussant: Konstantina Skouri</i> Krisztina Demeter, Dávid Losonci, Máté Baksa, Orsolya Diófási-Kovács, Anna Freund, Zsófia Jámbor, Róbert Marciniak, Zsolt Matyusz, Péter Móricz, Judit Nagy, Bence Pistruí, Katalin Ternai | Data-driven Quality Root Cause Analysis: A case study for Automotive Assembly Workshops <i>Discussant: Krisztina Demeter</i> Manuel Schneckenreither |
| | The Effect of Restoring Announcement on Company Share Price <i>Discussant: Karen Moons</i> | Environmental and Social Impacts of Incorporating Carpooling Behavior in Bus Routing Problem <i>Discussant: Napat Harpornchai</i> | Industry 4.0 – a research framework and case study evidences <i>Discussant: Julie Donovan</i> | Advanced Reinforcement Learning Methods for the Operations Research Domain: An Admission Control Queuing System <i>Discussant: Kwabena Kankam Adubofour</i> |
| 18.00-18.45 | Stream E (SR16) Industry 4.0 Chairman: Qiuping Ma 18.00-18.45 Eleonora Florian, Fabio Sgarbossa, Ilenia Zennaro | Stream F (SR17) Sustainable Operations Chairman: Ivan Ferretti 18.00-18.45 M. Asghari, S.M.J. Mirzapour Ale-hashem, Y. Rezik | Stream G (SR18) General Production Economics Chairman: Gerald Reiner 18.00-18.45 Bangdong Zhi, Xiaojun Wang, Fangming Xu | |
| 18.45-19.30 | Machine Learning for predictive maintenance: a cost-oriented model for implementation <i>Discussant: Krista Korpela</i> Zsolt Matyusz, Bence Pistruí | Managing the Advertising and Pricing Programs to Improve the Sustainable Behavior of Customers <i>Discussant: Luca Fraccascia</i> Levente SZÁSZ, Ottó CSIKI, Béla-Gergely RÁCZ | Financing the Capital-constrained Supply Chain: In-transit Inventory Financing vs. Trade Credit <i>Discussant: Matthias Wichmann</i> Kim De Boeck, Jónas Oddur Jónasson, Catherine Decouttere, Nico Vandaele | |
| | Digitalization projects in the Hungarian retail sector - comparing two key segments through empirical examples <i>Discussant: Lingling Guo</i> | A survey study on the implementation and performance implications of sustainability practices in the global automotive industry <i>Discussant: David Losonci</i> | The effect of the rainy season on the vaccine distribution network in Madagascar <i>Discussant: M'hamed Sahnoun</i> | |
| 20.00 | Conference Dinner | | | |

| | Stream C (SR11) | Stream D (SR12) |
|---------------------------|---|---|
| 8.00-8.45 | Production Planning and Control Chairman: Klaus Altendorfer Quirin Ilmer Optimization models incorporating load dependent lead times in dual resource constrained job shops | Industry 4.0 Chairman: Pavel Castka Judit Nagy, Zsófia Jámbor Factors influencing digital strategy in the food industry |
| 8.45-9.30 | <i>Discussant: Maximilian Kunovjanek</i> Nicola Berti, Serena Finco, Olga Battaglia, Daria Battini Minimizing human fatigue and idle times in a dual resource constrained job shop scheduling problem <i>Discussant: Qianyun Wen</i> | <i>Discussant: Ran Bhamra</i> Fabiana Cifone, Kai Hoberg, Matthias Holweg, Alberto Portioli Staudacher *Lean 4.0*: How can digital technologies support lean practices? <i>Discussant: Ralf Gössinger</i> |
| 9.30-10.00 10.00-10.45 | Ivan Ferretti, Simone Zanoni, Lucio E. Zavanella, Mohamad Y. Jaber Lot sizing with learning and forgetting in the assembly of similar multi-products <i>Discussant: Philipp Christopher Sauer</i> | |
| 8.00-8.45 | Stream F (SR17) Production Planning and Control Chairman: Stefan Hoessler Stephanie Bayard, Xavier Delorme, Frederic Grimaud DDMRP vs MRP2 : impacts of choice on financial and customer performance facing different demand profiles <i>Discussant: Sangjic Lee</i> Oussama Ben-Ammar, Belgacem Bettayeb, Alexandre Dolgui Multi-period supply planning problem under a dynamic demand, stochastic lead times and supplier selection <i>Discussant: Matthias Holweg</i> Krista Korpela, Jukka Korpela, Kalle Elfvengren, Merja Tepponen, Markku Tuominen Improving Operations Management in Elderly Care with a CDSS for Service Needs Assessment <i>Discussant: Stephanie Bayard</i> | Stream G (SR18) General Production Economics Chairman: Yeming Gong Azar MahmoodGonbadi, Andrea Genovese, Antonino Sgalambro Network Design Models for Closed-Loop Supply Chains: a Literature Review and a Research Agenda <i>Discussant: Yu-Chi Li</i> Tommaso Calzolari, Andrea Genovese, Andrew Brint The Implementation of Circular Economy practices in European Multi-National Enterprises: a Review <i>Discussant: Robert Boute</i> Fairach Piboonrungraj Developing Scales for Emergency Relief Operations Performance: An Empirical Study of Thailand Floods <i>Discussant: Patricia Rogetzer</i> |
| 9.30-10.00 10.00-10.45 | Stream E (SR16) Supply Chain Operations Chairman: Eric Grasse 8.00-8.45 Gulcin Buyukozkan, Gizem Cifci, Deniz Uzturk Evaluating Blockchain Requirements for Digital Supply Chain Management <i>Discussant: Nico Irrgang</i> 8.45-9.30 Jukka Hallikas, Mika Immonen, Jyrri Vilko Exploring the Role Integration Capabilities in Supply Chain Performance <i>Discussant: Rossella Pazzi</i> 9.30-10.00 Coffee Break 10.00-10.45 Imre Dobos, Gyöngyi Vörösmary Using Cross-Efficiency in Green Supplier Evaluation with Data Development Analysis <i>Discussant: Osmo Tapani Kauppi</i> 10.45-12.00 Closing Session (Aula) Chairman: Ou Tang Alexandre Dolgui, Stefan Minner, Ruud Teunter: Meeting the editors Ou Tang: Closing remarks 12.00 Farewell Cocktails | |

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