

Overall Schedule of IWLS'2022, Oslo

Time	Tuesday 23/08	Wednesday 24/08	Thursday 25/08	Friday 26/08
08:30-09:00		Registration		
09:00-09:30		Opening session		
09:30-10:00			Session 5 <u>A2-030</u>	Session 8 <u>A2-030</u>
10:00-10:30		Session 1 <u>A2-030</u>		
10:30-11:00		Break	Break	Break
11:00-11:30				
11:30-12:00		Session 2 <u>A2-030</u>	Session 6 <u>A2-030</u>	Session 9 <u>A2-030</u>
12:00-12:30				
12:30-13:00		Lunch <u>Outside conference auditorium</u>	Lunch <u>Executive canteen at D6</u>	Lunch <u>Outside conference auditorium</u>
13:00-13:45				
13:45-14:00		A word from BI President		
14:00-14:30			Session 7 <u>A2-030</u>	
14:30-15:00		Session 3 <u>A2-030</u>		
15:00-15:30			Break	
15:30-16:00		Break	Meeting of the EURO Working Group on Lot-Sizing	
16:00-16:30		Session 4 <u>A2-030</u>		
16:30-17:00				
17:00-17:30				
17:30-18:00				
18:00-18:30				
18:30-19:00			Guided tour <u>Ekeberg sculpture park</u>	
19:00-19:30	Get together Party <u>Nydalen Bryggeri & Spiseri</u>	Cruise tour on Oslo fjord <u>Departure from Rådhusbrygge 3</u>		
19:30-22:30			Gala dinner <u>Ekeberg restaurant</u>	

Detailed Program of IWLS'2022, Oslo

Day 1: Wednesday, August 24, 2022	
08:30-09:00	Registration
09:00-09:30	Welcome session
09:30-10:30	Session 1 - Sustainability (chair: Karim Tamssaouet)
	Single-machine multi-product lot-sizing with on-site generation of renewable energy <i>Ruiwen Liao, Céline Gicquel</i> A MILP heuristic for a production planning problem with returns and substitution <i>Youcef Bouterfa, Ahmed Senoussi, Nadjib Brahimi</i>
10:30-11:00	Coffee break
11:00-12:30	Session 2 - Stochastic Lot Sizing – I (chair: Céline Gicquel)
	Dynamic lot sizing using forecast information <i>Lotte van Hezewijk, Nico Dellaert, Willem van Jaarsveld</i> Preventive and mitigative contingency planning for dynamic single-item stochastic lot-sizing <i>Mehdi Sharifyazdi</i> A tree-search heuristic for a stochastic one-warehouse multi-retailer problem with multiple transportation modes <i>Dorian Dumez, Jean-François Cordeau, Raf Jans</i>
12:30-13:45	Lunch
13:45-14:00	A word from BI President
14:00-15:30	Session 3 - Integrated Decisions (chair: Kerem Akartunali)
	The integrated production-transportation problem with process flexibility <i>Silvio A. de Araujo, Desiree M. Carvalho, Raf Jans, Diego J. Fiorotto</i> One-dimensional multi-period cutting stock problem with setup cost: a theoretical analysis <i>Eduardo M. Silva, Gislaine M. Melega, Kerem Akartunali, Silvio A. de Araujo</i> Integrated lot-sizing and scheduling problem in tire industry: tonnage constraint sensitivity analysis <i>Cyril Koch, Yassine Ouazene, Taha Arbaoui, Farouk Yalaoui, Humbert De Brunier</i>
15:30-16:00	Coffee break
16:00-17:00	Session 4 - Pricing (chair: Wilco van den Heuvel)
	Joint dynamic pricing and lot-sizing problem with cross-price iso-elastic demand model <i>Mourad Terzi, Alice Yalaoui, Yassine Ouazene, Farouk Yalaoui</i> Solving profit-maximizing lot size problems with discrete prices <i>Erik Langelø, Lars Magnus Hvattum</i>
19:00-22:30	Cruise tour on Oslo fjord

Day 2: Thursday, August 25, 2022

09:00-10:30 Session 5 - Complexity and Exact Algorithms (chair: Safia Kedad-Sidhoum)

Lot sizing and maintenance planning problems: complexity analysis and exact solution approaches

Nabil Absi, Stéphane Dauzère-Pérès, Wilco van den Heuvel

Continuous proportional lot sizing and scheduling problem

Christophe Rapine, Ayse Akbalik, Luis Guimarães, Bernardo Almada-Lobo

Exact solution of capacitated dynamic lot sizing problems by a branch-and-price algorithm using the SCIP framework

Lars Jäger, Stefan Helber

10:30-11:00 Coffee break

11:00-12:30 Session 6 - Stochastic Lot Sizing – II (chair: Mehdi Sharifyazdi)

Multi item capacitated lot sizing problem with stochastic demand timing

Melek Rodoplu, Kerem Akartunalı, Stéphane Dauzère-Pérès

Bi-objective stochastic lot-sizing with coordinated shipments

Wilco van den Heuvel, Marcel Turkensteen, Rommert Dekker

Data-driven robust optimization approach to supply planning using an approximated uncertainty set

Loger Benoit, Alexandre Dolgui, Fabien Lehuédé, Guillaume Masonnet

10:30-11:00 Coffee break

12:30-14:00 Lunch

14:00-15:00 Session 7 - Heuristics (chair: Silvio A. de Araujo)

A flow time oriented lot sizing model for a serial two-stage production-inventory system: analytical approximation and simulation-based optimization

Hubert Missbauer, Simon Jutz

New construction heuristic for capacitated lot sizing problems

Dziuba Daryna, Christian Almeder

15:00-15:30 Coffee break

15:30-16:00 Meeting of the EURO Working Group on Lot-Sizing

18:30-19:30 Guided tour

19:30-22:30 Gala diner

Day 3: Friday, August 26, 2022

09:00-10:30 Session 8 - Mathematical Formulations and Reformulations (chair: Nabil Absi)

Multi-item dynamic lot-sizing with multiple transportation modes and item fragmentation

Karim Tamssaouet, Erna Engebretsen, Stéphane Dauzère-Pérès

Strong valid inequalities for two-period relaxations of big bucket lot-sizing problems

Mahdi Doostmohammadi, Kerem Akartunalı

Modeling inventory capacity constraints in capacitated lot-sizing with demand and production rates

Mehdi Charles, Stéphane Dauzère-Pérès, Safia Kedad-Sidhoum

10:30-11:00 Coffee break

11:00-12:30 Session 9 - Stochastic Inventory Management (chair: Stefan Helber)

Economic order quantity with supply uncertainty

Thomas A. Weber

Stochastic dynamic programming formulation for the (R, s, S) policy parameters computation

Andrea Visentin, Steven Prestwich, Roberto Rossi, S. Armagan Tarim

Optimal policies for inventory systems with a limited number of replenishments

Onur A. Kilic, Geoffrey A. Chua, Remco Gerns

12:30-14:00 Lunch
