IWLS 2016 Program

Day 1: Tuesday, August 23, 2016

08:30-09:00   **Registration**

09:00-09:15   **Welcome session**

09:15-10:15   **Session 1 - Practical applications (chair: Stefan Helber)**
Lot sizing models for designing on-line electric vehicle systems
Stéphane Dauzère-Pérès, Young Jae Jang

Integration of production planning and purchasing decisions
Artur Lovato Cunha, Maristela Oliveira Santos, Reinaldo Morabito, Ana Barbosa-Póvoa

10:15-10:45   **Coffee break**

10:45-12:15   **Session 2 - Solution approaches (chair: Christian Almeder)**
Lagrangian heuristic to the lot sizing problem with multiple plants, items, periods and setup carry-over
Desiree M. Carvalho, Mariá C. V. Nascimento

First solution heuristic algorithm for the lot sizing problem with setup carryover
Xueying Shen, Filippo Focacci, Fabio Furini, Daniel Godard

A branch-and-cut algorithm using two-period relaxations for big-bucket lot-sizing problems
Kerem Akartunalı, Mahdi Doostmohammadi, Ioannis Fragkos

12:15-14:00   **Lunch**

14:00-15:00   **Session 3 - Asymmetric information (chair: Hartmut Stadtler)**
Two-echelon supply chain coordination mechanism under information asymmetry with multiple types
Rutger B.O. Kerkkamp, Wilco van den Heuvel, Albert P.M. Wagelmans

Designing contracts in a two-level supply chain with asymmetric information
Siao-Leu Phouratsamay, Safia Kedad-Sidhoum, Fanny Pascual

15:00-15:30   **Coffee break**

15:30-17:00   **Session 4 - Inventory/production routing (chair: Raf Jans)**
Reformulations and cutting planes for an inventory routing problem
Laurence Wolsey, Pasquale Avella, Maurizio Boccia

Analysis of the production routing problem
Nabil Absi, Claudia Archetti, Stéphane Dauzère-Pérès, Dominique Feillet, Grazia Speranza

Tackling a large production-routing problem in a vertical meat store chain
Fábio Neves-Moreira, Bernardo Almada-Lobo, Luis Guimarães, Jean-François Cordeau, Raf Jans

17:00-17:30   **Meeting of the EURO Working Group on Lot-Sizing**

Day 2: Wednesday, August 24, 2016

09:00-10:00   **Session 5 - Lot sizing and extensions I (chair: Nabil Absi)**

An updated literature review of single item lot sizing problems
Nadjib Brahimi, Nabil Absi, Stéphane Dauzère-Pérès, Atle Nordli

Production scheduling in a job shop with limited life time of work-in-process inventories
Mehdi Karimi-Nasab

10:00-10:30   **Coffee break**

10:30-11:30   **Session 6 - Lot sizing and extensions II (chair: Herbert Meyr)**

Multi-stage lot-sizing problem with inventory bound: Managerial implications
Hark-Chin Hwang, Wilco van den Heuvel, Albert P.M. Wagelmans

The impact of service level constraints in deterministic lot sizing with backlogging
Matthieu Gruson, Jean-François Cordeau, Raf Jans

11:45-13:00   **Lunch**

13:00-18:00   **Industry tour**

18:30-22:00   **Conference dinner**

Day 3: Thursday, August 25, 2016

09:00-10:30   **Session 7 - Stochastic lot sizing (chair: Horst Tempelmeier)**

Stabilized-cycle strategy for capacitated lot-sizing with multiple products: Fill rate constraints in a rolling schedule
Malte Meistering, Hartmut Stadtler

A robust optimization approach to the capacitated lot sizing problem under demand uncertainty
Thomas D. van Pelt, Jan C. Fransoo

Stochastic lot-sizing for a multi-echelon remanufacturing system
Céline Gicquel, Quan Vu, Safia Kedad-Sidhoum

10:30-11:00   **Coffee break**

11:00-12:00   **Session 8 - Complexity (chair: Albert P.M. Wagelmans)**

Lot sizing problem with energy constraints
Christophe Rapine, Bernard Penz, Céline Gicquel

Polynomial time algorithm for multi-level in series capacitated lot-sizing problems with constant batch size
Guillaume Goisque, Christophe Rapine

12:00-13:30   **Lunch**

13:30-14:30   **Session 9 - Lot sizing and extensions III (chair: Wilco van den Heuvel)**
Lot-sizing in a remanufacturing environment
Nil Nurlu Deniz, Meltem Denizel
The two-level economic lot sizing problem with perishable items
Mehmet Önal

14:30-15:00   **Closing session and coffee break**