IWLS 2018 Program:

Tuesday , August 21, 2018
19:00-20:00 - Welcome Reception (Workshop)
20:00-22:00 – Dinner (served by the hotel to guests) + Drinks (Workshop)

Day 1: Wednesday, August 22, 2018
08:15-08:45 Registration
08:45-09:00 Opening & Welcome
09:00-10:30 Session - Applications (chair: Alistair Clark)
   Applications of Lot-Sizing
   Alistair Clark
   A Case Study in the Glass Container Industry: Thermos flask production
   Magna Paulina de Souza Ferreira, Flaviana Moreira de Souza Amorim,
   Márcio da Silva Arantes, Claudio Fabiano Motta Toledo
   A Lot Sizing Perspective for the Battery Storage Coordination in Power
   Distribution Systems
   Caio Santos, Ellen Cavalheiro, Petra Bartmeyer, Rodrigo Lima, Christiano Lyra
10:30-11:00 Poster Introductions (chair: Maristela Santos)
11:00-11:30 Coffee Break/Poster Session
11:30-13:00 Session - Integrations (chair: Kelly Poldi)
   Decomposition methods for a capacitated three-level lot sizing and
   transportation problem with a distribution structure
   Matthieu Gruson, Jean-François Cordeau, Raf Jans
   Integrated lot sizing and cutting stock problems in paper industries
   Livia Maria Pierini, Kelly Cristina Poldi
   Leveraging Capacity Planning with Maintenance Insights
   Manuel Díaz-Madroñero, Luís Guimarães, Bernardo Almada-Lobo, Ayse
   Akbalik, Christophe Rapine
13:00-14:30 Lunch (served by the hotel to guests)
16:30-18:30 Happy Hour (Workshop)
19:00-20:30 Dinner (served by the hotel to guests)

Day 2 Thursday, August 23, 2018
09:00-10:30 Session – Stochastic and Robust (chair: Kerem Akartunali)
   Reformulations for Robust Lot-Sizing Problem with Remanufacturing Option
   and Backlogging
   Öykü Naz Attila, Agostinho Agra, Kerem Akartunali, Ashwin Arulselvan
   Heuristics for the stochastic economic lot sizing problem with remanufacturing
   Onur A. Kilic, Huseyin Tunc
   Stochastic lot-sizing for remanufacturing planning with lost sales and returns
   Franco Quezada, Céline Gicquel, Safia Kedad-Sidhoum
10:30-11:00 Coffee Break/Poster Session
11:00-12:30 Session - Extensions (chair: Nabil Absi)
   Detailed production planning models with flexible lead time constraints
   Sébastien Beraudy, Nabil Absi, Stéphane Dauzère-Pérès
   A strategic production problem balancing cost and flexibility
   Etienne de Saint Germain, Vincent Leclère, Frédéric Meunier

Lot-sizing models with simultaneous backlogging and lost sales
Raf Jans, Matthew Arsenault
12:30-14:00 Lunch (served by the hotel to guests)
14:00-15:30 Session – Heuristics (chair: Pedro Munari)
A column generation based heuristic for Inventory routing with practical constraints
Pedro Munari, Aldair Alvarez, Reinaldo Morabito
New progresses on a greedy construction heuristic for capacitated lot-sizing problems
Christian Almeder
A Lagrangian heuristic for the capacitated lot sizing and scheduling problem on parallel related production lines
Willy A. Oliveira, Maristela O. Santos, Kerem Akartunali
15:30-16:00 Coffee Break/Poster Session
16:00-17:30 Session – Stochastic and Integrations (chair: Raf Jans)
Stochastic Lot Sizing Problem with Joint Service Level Constraints
Narges Sereshti, Yossiri Adulyasak, Raf Jans
Multi-stage stochastic capacitated lot sizing under tight service constraints
Fabian Friese
A single-item lot-sizing problem with a by-product and inventory bounds
Elodie Suzanne, Nabil Absi, Valeria Borodin, Wilco van den Heuvel
17:30-18:00 Meeting of the EURO Working Group on Lot-Sizing
20:00-23:00 Workshop's Dinner (Beach Party)

Day 3 Friday, August 24, 2018
09:00-10:30 Session - Complexity and Algorithms (chair: Wilco van den Heuvel)
Approximation algorithms for lot-sizing problems using sandwich functions
Guillaume Goisque, Christophe Rapine, Wilco van den Heuvel, Albert P. M. Wagelmans
Revisiting the Zero-Inventory Property in Remanufacturing
Meltem Denizel
Comparison of different cuts to interactively solve production lot-sizing and scheduling problems in cases of infeasibilities
Fernanda Alves, Maurício C. de Souza, Thiago H. Nogueira, Martín Ravetti
10:30-11:00 Coffee Break
11:00-12:30 Session - Applications and Integrations (chair: Silvio Araujo)
A supply chain tactical planning approach for optimizing the tomato processing industry
Cleber Rocco, Reinaldo Morabito, Luís Guimarães, Bernardo Almada-Lobo
Integrated Lot Sizing, Scheduling and Cutting Stock Problem
Gislaine Mara Melega, Silvio Alexandre de Araujo, Reinaldo Morabito
Integrated lot sizing and blending problems
Diego Jacinto Fiorotto, Raf Jans, Silvio Alexandre de Araujo
12:30-14:00 Lunch (served by the hotel to guests)

<u>Poster Session:</u>

Integrated Lot Sizing and Cutting Stock Problem Applied to a Spring Industry
Pedro Rochavetz de Lara Andrade, Silvio Alexandre de Araujo, Adriana Cristina Cherri Nicola

Heuristics for the lot sizing and scheduling problem of production with demand order management
Rudivan Barbosa, Willy Oliveira, Maristela Oliveira Santos

Machine Flexibility in Lot Sizing Problems: Construction of Heuristics
Melka Catelan, Silvio Araujo, Diego Fiorotto

The Integrated Lot-Sizing and Cutting Stock Problem Applied to a Mattress Industry
Maurício Móz Christofoletti, Silvio Alexandre de Araujo, Adriana Cristina Cherri, Raf Jans

An optimization model for the general lot sizing and scheduling problem in beverage production
Deisemara Ferreira, Victor Mario Noble Ramos

A fix-and-optimize with objective function exchange applied to the production planning in pulp and paper industry.
Marcos Mansano Furlan, Maristela Oliveira Santos, Reinaldo Morabito

Reformulations for the Lot Sizing Problem: an initial study
Maurício Rocha Gonçalves, Silvio Alexandre de Araujo

Capacitated lot sizing and replanning problem for machining industry
Matheus Artioli Leandrin, Adriana Cristina Cherri, Luiz Henrique Cherri

Production planning considering cutting and scheduling aspects
Felipe Kesrouani Lemos, Silvio Alexandre de Araujo, Adriana Cristina Cherri, Horácio Hideki Yanasse

A new model integrated in the planning and programming of furniture production
Guilherme de Oliveira Macedo, Carla Taviane Lucke da Silva Ghidini

Integrated Lot Sizing and Cutting Stock Problem with Usable Leftovers
Douglas Nogueira do Nascimento, Silvio Alexandre de Araujo, Adriana Cristina Cherri

A lot sizing and cutting stock problem in a trusses slabs industry
Sônia Cristina Poltroniere, Ângelo Henrique Dinhane Vassoler, Silvio Alexandre de Araujo

Production planning integrated to the optimization problem of the use of molds
Caroline Signorini, Silvio Araujo, Gislaine Melega

The integrated lot sizing and transportation problem
Samanta Teixeira, Silvio Araujo, Diego Fiorotto