

IOALA 2017

Special Session on Intelligent Optimisation Algorithms for Logistics Applications

at the 9th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2017)

Kanazawa, Japan, April 3-5, 2017

Conference website: <http://www.aciids.pwr.edu.pl/>

Special Session Organizers

Prof. Farouk Yalaoui

Department of Industrial Systems Optimization (ICD-UMR-CNRS 6281)

University of Technology of Troyes, France

E-mail : farouk.yalaoui@utt.fr

Prof. Habiba Drias

Laboratory of Research in Artificial Intelligence

Department of Computer Science

University of Science and Technology USTHB Algiers, Algeria

E-mail: hdrias@usthb.dz

Prof. Mauricio C. de Souza

Departamento de Engenharia de Produção,

Universidade Federal de Minas Gerais, Brasil

E-mail : mauricio.souza@dep.ufmg.br

Objectives and topics

With the emergence of the new manufacturing revolution, often called Industry 4.0, new manufacturing configurations, enhanced with advanced robotics and data acquisition, are being used. Companies and factories, faced with increasing competitiveness, are working on the development of new algorithms and systems to cope with the increasing use of autonomous machines, the demand load and environmental constraints. Moreover, they consistently deal with a dynamic and agile environment, characterized by a considerable amount of data, a changing manufacturing process and uncertain inputs. The IOALA 2017 Special Session at the 9th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2017) is devoted to the novel intelligent algorithms and systems tackling the manufacturing problems such as: line balancing, scheduling, design of assembly/disassembly lines, etc. We aim that this special session gathers researchers and practitioners working on promising research directions and recent advances in these topics. The scope of the IOALA 2017 includes, but is not limited to the following topics:

- New algorithms for scheduling problems
- Intelligent manufacturing systems
- Novel techniques for the design of assembly/disassembly systems
- Simulation models for manufacturing systems
- Advanced evolutionary algorithms for effective manufacturing
- Facility planning
- Robust optimization for scheduling and production planning
- Heuristic and meta-heuristic approaches for reverse logistics
- Energy optimization in manufacturing and planning
- Intelligent approaches for warehouse management
- Stochastic modeling of manufacturing systems
- Green manufacturing

Important dates

Submission of papers: **31 October 2016 (Hard deadline!!!)**
Notification of acceptance: **1 December 2016**
Camera-ready papers: **15 December 2016**
Registration & payment: **15 December 2016**
Conference date: **3-5 April 2017**

Program Committee (to be invited)

Taha Arbaoui, University of Technology of Troyes, France
Hicham Chehade, University of Technology of Troyes, France
Lionel Amodeo, University of Technology of Troyes, France
Mustapha Noureffath, University of Laval, Canada
Alexandre Dolgui, National Institute of Science and Technology Mines-Telecom, France
Olga Battaia, Institut Supérieur de l'Aéronautique et de l'Espace, France
Zaki Sari, Abou Bakr Belkaid University of Tlemcen, Algeria
Daoud Ait-Kadi, University of Laval, Canada
Mauricio C. de Souza, Universidade Federal de Minas Gerais, Brazil
Martin Gómez Ravetti, Universidade Federal de Minas Gerais, Brazil
Dmitry Ivanov, Hochschule für Wirtschaft und Recht Berlin, Germany
Lyes Benyoucef, Aix-Marseille University, France
Habiba Drias, University of Sciences and Technology Houari Boumediene, Algeria
Djamal Rebaine, Université du Québec à Chicoutimi, Canada
Nidhal Rezg, University of Lorraine, France
Yassine Ouazene, University of Technology of Troyes, France

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper, please activate the following link and select the track: ***IOALA 2017: Special Session on Intelligent Optimisation Algorithms for Logistics Applications***.

<https://easychair.org/conferences/?conf=aciids2017>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the IOALA 2017 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, DBLP, Google Scholar, Scopus, etc.).