



META'2023

Program



META'23 is organized by

- University of Lille (Université Lille), France
- INRIA Lille Nord Europe, France
- GDR RO, France
- EMI, Morocco

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- A. Viana (Portugal)
- F. Yalaoui (France)
- Ismail Yusuf (Malaysia)
- N. Zufferey (Switzerland)

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Program at glance

Time in Morocco is European Time - 1h.

Nov 01 Registration

Registration at 5* Palm Plaza Hotel lobby

Nov 02

Onsite

9h15 Morocco Time	Opening (Prof. E-G. Talbi)
9h30	Session Combinatorial Optimization (chair: Prof. F. Yalaoui)
10h50	Break
11h20	Session Optimization & Machine Learning (chair: A. Nakib)
12h40	

Nov 03

Onsite

9h30	Session Optimization (chair: Prof. N. Melab)
10h50	Break
11h20	Session Applications (chair: Prof. L. Amodeo)
12h40	

Recorded presentations

Recorded presentations available on the website of the conference

Wednesday, Nov 01

10h - 12h – Registration
Morocco time

9h15 – 9h30 Opening Session – Prof. E-G. Talbi

Morocco time

9h30-10h50

Session – Combinatorial Optimization (chair: Prof. F. Yalaoui)

- A systematic review and ranking of operators in adaptive large neighborhood search for vehicle routing problems
Stefan Voigt
- Ergodic Annealing: intelligent optimization under uncertainty
Fabio Maccheroni, Carlo Baldassi, Massimo Marinacci, Marco Pirazzini
- Memetic Algorithms for the Workforce Routing and Scheduling Problem: case study of Energy Distribution System Operator (DSO)
Loïc Cardinaël, Wahiba RAMDANE CHERIF-KHETTAF, Ammar Oulamara
- A comparative analysis of simheuristics to address the berth allocation problem in bulk ports
Daniel Mendoza-Casseres
- Hyperheuristic as tuning tool of generalized swap strategy
Marek Kvet, Jaroslav Janáček

10h50 – 11h20 – Coffee break

11h20 - 12h40

Session – Optimization & Machine learning (chair: A. Nakib)

- An improved multi-objective genetic algorithm for the neural architecture search problem
Eloy Bedía-García, Enrique Dominguez
- Mixed-variable surrogate-based optimization using probability features for categorical variables
Charlotte Beauthier, Sylvério Pool Marquez, Caroline Sainvitu, Annick Sartenaer
- EVADyR: a new dynamic resampling algorithm for optimizing noisy expensive systems
Soraya Zertal, Sophie Robert, Philippe Couvee
- An optimised version of differential evolution heuristic for feature selection
Thibault Anani, Francois Delbot, Jean-François Pradat-Peyre
- Machine Learning-based Per-Instance Algorithm Selection for High-Performance Subgraph Isomorphism Enumeration
Syed Ibtisam Tauhidi, Arindam Karmakar, Thai Son Mai, Hans Vandierendonck

Friday, Nov 3

9h30-10h50

Session – Optimization (chair: Prof. N. Melab)

- Mixed Integer Linear Programming Based Large Neighborhood Search Approaches for the Directed Feedback Vertex Set Problem
Maria Bresich, Johannes Varga, Günther R. Raidl, Steffen Limmer
- Implementation of Metaheuristic Search for Finding Shortest Path in Tunnelled Network
Habiba Akter
- A Simulated Annealing Based Approach for the Roman Domination Problem
Jakob Greilhuber, Sophia Schober, Enrico Iurlano, Günther R. Raidl
- A Study About Meta-Optimizing the NSGA-II Multi-Objective Evolutionary Algorithm
José F. Aldana-Martín, Antonio J. Nebro, Juan J. Durillo, María del Mar Roldán García
- Success Rate Based Scaling Factor Adaptation in Dual-Population Differential Evolution
Vladimir Stanovov, Eugene Semenkin

10h50 – 11h20 – Coffee break

11h20 - 12h40

Session – Applications (chair: Prof. L. Amodeo)

- Multi-Objective Metaheuristic Solution Approach for the Crop Plant Scheduling Problem
Maksim Lalić, Obrenović Nikola, Selin Ataç, Stefano Bortolomiol, Marko Oskar, Sanja Brdar, Vladimir Crnojević, Ivan Luković
- A honey bee mating optimization hyperHeuristic for patient admission scheduling problem
Imen Oueslati, Moez Hammami, Issam Nouaouri, Ameni Azzouz, Lamjed BenSaid, Hamid Allaoui
- Artificial intelligence for metaheuristic parameter setting
Jaroslav Janáček, Marek Kvet
- Network flow models for days off scheduling
Ghassen Tlig, Fethi Jarray
- Trend-Risk in Complex Portfolio Selection Strategy
David Neděla, Sergio Ortobelli, Tomas Tichy

19h30 BANQUET Meeting @Hotel Palm Piazza Lobby

For participants with registration with banquet (Banquet ticket).

Recorded presentations available on the web site of the conference

- **Harnessing Collective Intelligence: Integrating Particle Swarm Optimization and Reinforcement Learning for Efficiently Solving Binarized Coverage Problems**
Marcelo Orlando Becerra Rozas, Broderick Crawford, Ricardo Soto, El-Ghazali Talbi, Giovanni Giachetti
- **Feature Selection Problem: a short slr about its formulation**
José Barrera, Broderick Crawford, Felipe Cisternas, Ricardo Soto, Giovanni Giachetti
- **Noise Impact On Convolutional Neural Networks Ability to Generalize**
Abdeldjalil AIDI, Abou Elhassen BENYAMINA, Karim MEZZOUG
- **Impact of Structural Bias on the Sine Cosine Algorithm: A Theoretical Investigation Using the Signature Test**
Kanchan Rajwar, Kusum Deep, Muthu Mathirajan
- **High Performance Algorithms for the Unrelated Parallel Machines Scheduling Problem with a Common Server and Job-Sequence Dependent Setup Times**
Youssef HADHBI, Laurent Deroussi, Nathalie Grangeon, Sylvie Norre, Christophe Blanchon
- **Opposition Based Local Escaping Marine Predators Algorithm for Continuous Optimization**
Manish Kumar, Kusum Deep
- **Metaheuristic Algorithms for Circle Packing Problem: A Comprehensive Review**
Yogesh Kumar, Kusum Deep
- **Uniformly Deployed Sets in Computer Science and Optimisation**
Peter Zimmermann, Zuzana Borcinova
- **Cluster images with AntClust: a clustering algorithm based on the chemical recognition system of ants**
Winfried Oed, Parisa Memarmoshrefi

Conference Place



Organizers

