

International Conference on Metaheuristics and Nature Inspired Computing
October 27th-31th 2016
Marrakech, Morocco



META'2016



Program

META'16 is organized by

- CRISTAL Computer Science Laboratory of Lille (Laboratoire d'Informatique Fondamentale de Lille), Sciences and Technologies University of Lille (Université Lille 1), France
- INRIA Lille Nord Europe, France
- GDR RO, GDR MACS, France
- EMI, Morocco

Conference chair: Prof. E-G. Talbi (Univ. Lille, INRIA, France)

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Special sessions

1. **Parallel metaheuristics** organized by Prof. **N. Melab** (Univ. Lille, France), Dr. **M. Mezma** (Univ. Mons, Belgium)

contact: Nouredine.Melab@univ-lille1.fr , mohand.mezmaz@gmail.com

2. **Metaheuristics for software engineering** organized by Dr. **I. Boussaid** (USTHB, Algeria), Prof **M. Kessentini**(University of Michigan, USA), Prof. **P. Siarry** (Université Paris-Est Créteil, France)

contact: ilhem_boussaid@yahoo.fr , marouane@umich.edu, siarry@u-pec.fr,

3. **Metaheuristics for intelligent transportation systems** organized by Dr. **M. Seredynski** (Luxembourg Institute of Science and Technology, Luxembourg), Dr. **D. Khadraoui** (Luxembourg Institute of Science and Technology, Luxembourg)

contact: marcin.seredynski@list.lu, djamel.khadraoui@list.lu

4. **Metaheuristics for smart grids and energy systems** organized by Dr. **Jean-Yves Lucas** (EDF, France), Prof. E-G. Talbi,

contact: jean-yves.lucas@edf.fr

5. **Memetic Algorithms and Local Search** organized by Dr. **Leonardo Trujillo** (Instituto Tecnológico de Tijuana, Mexico), Dr. **Massimiliano Vasile** (University of Strathclyde, Scotland), Dr. **Oliver Schuetze** (Cinvestav-IPN, Mexico)

contact: schuetze@cs.cinvestav.mx , leonardo.trujillo@gmail.com, massimiliano.vasile@strath.ac.uk

6. **Metaheuristics for signal and image processing** organized by Dr. **A. N. Benaichouche**, Dr. **H. Oulhadj**, Prof. **P. Siarry** (Univ. Paris Est, France)

contact: ahmed.benaichouche@u-pec.fr, oulhadj@u-pec.fr, siarry@u-pec.fr

7. **Robust solutions to combinatorial optimization problems under data scenarios** organized by Dr. **A. Sbihi**(EMNormandine, France) and Prof. **A. Yassine** (Univ. Le Havre, France)

contact: a.sbihi@em-normandie.fr, adnan.yassine@univ-lehavre.fr

8. Quantum computing and metaheuristics organized by Dr. **A. Sbihi** (EMNormandine, France)

contact: a.sbihi@em-normandie.fr

9. Heuristics strategies for intermodal transportation system organized by Dr. **A. Sbihi** (EMNormandine, France) and Dr. **J. Boukachour** (Univ. Le Havre, France)

contact: a.sbihi@em-normandie.fr, jaouad.boukachour@univ-lehavre.fr

10. Metaheuristics for Electronic Design Automation, Embedded Systems and telecommunication field organized by Prof. **B. Benhala** (Univ. Meknès, Morocco)

contact: benhalab@yahoo.fr

11. Heuristic and metaheuristic methods for complex systems scheduling organized by Dr. **Y. Ouazene**, Prof. **F. Yalaoui** (UTT, France), Prof. **D. Ivanov** (HWR Berlin, Germany)

contact: yassine.ouazene@utt.fr, farouk.yalaoui@utt.fr, dmitry.ivanov@hwr-berlin.de

12. Metaheuristics and big data organized by Dr. **F. Heliodore** (Alstom), Dr. **A. Nakib** (UPEC, France)

contact: frederic.heliodore@alstom.com, a.nakib@upec.fr

13. Nature inspired computing for complex industrial problems organized by Dr. **A. M. Mellal** (Univ. Boumerdes, Algeria)

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14. Optimization methods for the design of production systems organized by Dr. **T. Arbaoui**, Prof. **F. Yalaoui** (UTT, Troyes, France), Prof. **M. Nourelfath** (Laval University, Canada)

contact: taha.arbaoui@utt.fr, Farouk.Yalaoui@utt.fr, mustapha.nourelfath@gmc.ulaval.ca

15. **Nature-Inspired Algorithms: Design, Analysis and Application** organized by Prof. **A. Salhi** (Univ. Essex, Colchester, United Kingdom), Prof. **E. Fraga** (UCL, London, United Kingdom)

contact: as@essex.ac.uk, e.fraga@ucl.ac.uk

16. **Metaheuristics and machine learning** organized by Dr. **B. Dorronsoro** (Univ. Cadiz, Spain), Dr. **G. Danoy** (Univ. Luxembourg)

contact: bernabe.dorronsoro@uca.es, gregoire.danoy@uni.lu

17. **Parallelization and surrogate modelling in multi-objective optimization** organized by Prof. **P. Korošec** (Jožef Stefan Institute, Slovenia), Dr. **G. Papa** (Jožef Stefan Institute, Slovenia)

contact: peter.korosec@ijs.si, gregor.papa@ijs.si

18. **Metaheuristics for supply chain and logistics optimization** organized by Dr. **L. Deroussi** (Univ. Blaise Pascal, France), Dr. **D. Lemoine** (Ecole des Mines de Nantes, France)

contact: deroussi@moniut.univ-bpclermont.fr, david.lemoine@mines-nantes.fr

19. **Data mining in metaheuristics for solving combinatorial optimization problems** organized by Pr. **Z. Habbas** (University of Lorraine), Dr **Y. Djenouri** (University of Blida, Algiers) and Dr **A. Chemchem** (University of Blida, Algiers).

contact: zineb.habbas@univ-lorraine.fr, y.djenouri@gmail.com, aminechemchem@gmail.com

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Program at glance

October 27 Welcome and registration

10h – 12h Registration at Palm Plaza Hotel lobby

14h – 17h Registration at Palm Plaza Hotel lobby

October 28

9h	Opening Session		
	Room Les Orangers 1	Room Les Orangers 2	Room Mimosa
9h30	Optimization under Uncertainty	Advanced local search	Routing problems
10h50	Coffee Break		
11h20	Tutorial 1 <i>Combining metaheuristics with mathematical programming and machine learning</i>	Variable Neighborhood Search	Logistics and production
12h40			
14h30	Multi-objective Optimization	Scheduling	Parallel metaheuristics
15h50	Coffee Break		
16h20	Swarm intelligence	Real-life applications	Tutorial 2 <i>Production and Logistics optimization – Parallel machines scheduling</i>

October 29

	Room Les Orangers 1	Room Les Orangers 2	Room Mimosa
9h30	Co-evolutionary and games	Recent trends	Continuous optimization
10h50	Coffee Break		
11h20	Tutorial 3 <i>Model-based evolutionary algorithms – A machine learning approach</i>	Energy-aware and smart systems	Satisfiability and selection problems
12h40			
14h30	Posters		
19h30	Gala Dinner (Meeting at Hotel Palm Plaza Lobby)		

October 30

	Room Les Orangers 1	Room Les Orangers 2	Room Mimosa
9h30	Logistics and engineering problems	Machine Learning I	Metaheuristics for Software engineering
10h50	Coffee Break		
11h20	Knapsack and packing problems	Machine learning II	Swarm intelligence
12h40			
14h30	European project Synergy meeting		
16h10			
16h40	European project Synergy meeting		
18h20			

October 31

9h	Equipe associée LIRIMA INRIA Meeting
10h40	
11h	Equipe associée LIRIMA INRIA Meeting
12h20	
14h30	Equipe associée LIRIMA INRIA Meeting

Thursday, October 27

10h - 12h – Registration

14h - 17h – Registration

9h – 9h30 – Room Les Orangers 1: Opening Session – Prof. EG. Talbi

9h30-10h50

Room Les Orangers 1 – Optimization under uncertainty (chair: J. Puente)

- SimGA: A simulating approach to fuzzy job shop problems
Jorge Puente, Camino Vela, Ines Gonzalez-Rodriguez, El-Ghazali Talbi
- The robust uncapacitated multiple allocation p-hub median problem
Raca Todosijevic, El-Ghazali Talbi
- A Robust heuristic for Diffusion Source Localization in Complex Networks
Mohammed Lalou, Hamamache Keddouci
- Multi-objective robust scheduling to maintain French nuclear power plants
Nicolas Dupin, El-Ghazali Talbi

Room Les Orangers 2 – Advanced local search (chair: Dr A. Sbihi)

- A trajectory-based metaheuristic for the Electric Vehicle Routing Problem
Rodrigo Linfati, John Wilmer Escobar
- A new transformation technique for arc routing problem into node routing problem on sparse feasible graph
Sara Tfaili, Abdelkader Sbihi, Adnan Yassine
- An exact approach for solving multi-capacitated location problem based on a set partitioning formulation
Mohammed El Amrani, Youssef Benadada, Bernard Gendron

Room Mimosa - Routing problems (chair: Prof. A. El Afia)

- A new taxonomy for the Green Vehicle Routing Problem
Emna Marrekchi, Walid Besbes, Diala Dhouib
- A Genetic Algorithm for solving the multicriteria routing problem in public transit networks
Omar Dib, Marie-Ange Manier, Laurent Moalic, Alexandre Caminada
- Real-life resolution for costumers-dependent Dial-A-Ride-Problem
Sonia Nasri, Hend Bouziri
- A hybrid algorithm for finding an integer route assignment
Lahna Idres, Mohammed Radjef

10h50 – 11h20 – Coffee break

11h20 - 12h40

Room Les Orangers 1 - Tutorial 1 (chair: Prof. A. Salhi)

Tutorial 1 : Combining metaheuristics with mathematical programming and machine learning

By **Prof. El-Ghazali Talbi**, University of Lille, France

Room Les Orangers 2 - Variable neighborhood search (chair: R. Linfati)

- Variable Neighbourhood Search for the Intermittent Traveling Salesman Problem
San Tu Pham, Patrick De Causmaecker
 - A Granular Variable Tabu Neighborhood Search for the capacitated location-routing problem
Rodrigo Linfati, John Wilmer Escobar, Paolo Toth
 - Hub Location and Routing Problem: a Variable Neighborhood Decomposition Search based solving approach
Fábio Fontes, Gilles Goncalves
 - Solving the 0-1 Multidimensional Knapsack Problem Using a Memetic Search Algorithm
Abdellah Rezoug, Dalila Boughaci, Mohammed Bader-El-Den
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Room Mimosa – Logistics and production (chair: Prof. J. Teghem)

- Heuristic methods to solve a production planning and scheduling problem in bulk ports
Gustavo Menezes, Geraldo Mateus, Martin Ravetti
- Minimizing the maximum lead time in a 3-stage supply chain scheduling problem
Walid Besbes, Jacques Teghem, Taicir Loukil
- A memetic algorithm with population management for the problem of production, maintenance and quality integration
Mustapha Nourelfath, Hossein Beheshti-Fakher, Michel Gendreau
- Particle Swarm Optimization for the Location Routing Problem
Laure Brisoux Devendeville, Sohaib Afifi, Aziz Moukrim, Corinne Lucet

Room Les Orangers 1 – Multi-objective optimization (chair: Prof. B. Dorronsoro)

- A Multi-objective Evolutionary Algorithm with Adaptive Selection of Operators
Alejandro Santiago, Bernabe Dorronsoro, Antonio J. Nebro, Juan J. Durillo, Hector Fraire
- Non-dominated Sorting Genetic algorithms for a Multi-Objective Resource Constraint Project Scheduling Problem
Xixi Wang, Farouk Yalaoui, Frédéric Dugardin
- A new hybrid method to solve the multi-objective optimization problem for a composite hat-stiffened panel
Ahmad EL Samrout, Oussama Braydi, Rafic Younes, Francois Trouchu, Pascal Lafon
- Selected algorithms for portfolio optimization problems
Tomas Tichy

Room Les Orangers 2 - Scheduling (chair: Prof. S. Hammadi)

- Solving the earliest arrival flow problem using genetic algorithms
Manel Hajjem, Hend Bouziri, El-Ghazali Talbi
- Minimizing makespan in a two machine flow-shop problem under preventive maintenance activities
Issam Krimi, Rachid Benmansour, Said Hanafi, Nizar Elhachemi
- Toward smart manufacturing using Genetic Algorithm for optimal scheduling
Samia Kouki
- Driven Workflow Orchestration of Patient pathway in Hospital Emergencies
Sarah Ben othman, Slim Hammadi

Room Mimosa - Parallel metaheuristics (chairs: Prof. N. Melab and P. Korosec)

- Solving the Uncapacitated Single Allocation p-Hub Median Problem on GPU
Abdelhamid Benaini, Achraf Berrajaa, Jaouad Boukachour, Mustapha Oudani
- A cooperative multi-agent framework for designing DisFCSPs and their resolution through metaheuristics
Naira Louizi, Sadok Bouamama
- A CPU-GPU Parallel Approach to Solve Multiple Choice Multidimensional Knapsack Problem
Mohamed Ali Ben Rejeb
- Scheduling intensive hierarchical embedded applications on heterogeneous architectures NOC-GPGPU
chahrazed adda, Abou Elhassen BENYAMINA

15h50 – 16h20 – Coffee break

Room Les Orangers 1 – Swarm intelligence II (chair: Dr. A. Nakib)

- Alignment of Multiple Sequences by the adaptation of the fireworks algorithm
Leila Djerou, Khaoula Khelilfi, Naceur Khelil
- Efficient Fault-Tolerant Scheduling On Computer Network by using Particle Swarm Optimization.
Sara Khernane, Abdelaziz Khernane, Chafik Arar
- Particle Swarm Optimization Algorithm for Improve The Final State Error of The Exact Boundary Controllability
Abdelaziz Khernane, Khelil Naceur, Sara Khernane
- Design day selection based on Pareto Multiobjective Optimization
Sara Khelil, Naceur Khelil, Nourddine Zemmouri

Room Les Orangers 2 – Real applications (chair: Prof. D. Bellala)

- Constructive and Enhanced Heuristics for a Welding Process Optimization of a Central Girder of a Semi Trailer
Djamel Bellala, Hacène Smadi, Aicha Medjghou, Lazhar Ourlis
- Optimized Positioning of a Robot Arm boring Regularly Distributed holes on a metallic sheet using simulated annealing Heuristic
Djamel Bellala, Lazhar Ourlis, Hacène Smadi
- A Metaheuristic Approach for Solving the School Bus Routing Problem in Tunisia
Bochra Rabbouch, Foued Saadaoui, Rafaa Mraihi
- Determination of US Commercial Banks' Probability of Default by Structural Models with Subordinated VG Process
Petr Gurný

Room Mimosa - Tutorial 2 (chair: Prof. Adnan Yassine)

Tutorial 2 : Production and logistics optimization – parallel machines scheduling

By Prof. Farouk Yalaoui, UTT, France

9h30-10h50

Room Les Orangers 1 – Co-evolutionary and games (chair: Prof. Carlos R. Correa)

- Co-evolutionary approach based on constraint decomposition
Emmanuel Kieffer, Grégoire Danoy, Pascal Bouvry, Anass Nagih
- A Metaheuristic Approach to computing (approximate) Pure Nash Equilibria
Niels Elgers, Patrick De Causmaecker, Nguyen Thi Thanh Dang
- A contribution towards solving a linear bilevel problem by genetic algorithm
Makrizi Abdelilah, Aït Laâimim Maroua, Essoufi El Hassan
- A New Self-Regulated Harmony Search Algorithm for the Phase Equilibrium Description of a Supercritical Extraction System
Carlos Rodrigo Correa Cely, Cristian Jimenez, Ivan Amaya

Room Les Orangers 2 – Recent trends (chair: A. Salhi)

- A Plant Propagation Heuristic Scheme for the Consecutive Ones Submatrix Problem
Salhi Abdellah, Eric Fraga, Salim Haddadi
- Electromagnetism-Like Algorithm for Traveling Salesman Problem with Random Keys and Lin-Kernighan Algorithm
Sinem Büyüksaatçı, Alp Baray
- Work in Progress on Autoconstructive Evolution
Lee Spector
- Through the maximum a posteriori based metaheuristic
Amir Nakib, Asmaa Ghoumari, Patrick Siarry

Room Mimosa – Continuous optimization (chair: Prof. R. Ellaia)

- General framework for transforming continuous metaheuristic in discrete or binary
Jose Garcia
- A Probabilistic Finite State Machine Design of Particle Swarm Optimisation
Malek Sarhani, Oussama Aoun, Abdellatif EL AFIA
- Solving dynamic multi-objective problems using a copula-based estimation of distribution algorithm
Abdelhakim Cheriet, Foudil Cherif
- Experimental Study of the Stability of Artificial Bees Colony When Solving Automotive Safety Integrity Levels Allocation
Youcef Gheraibia, Djafri Khaoula, Habiba Krimou

10h50 – 11h20 – Coffee break

Room Les Orangers 1 - Tutorial 2 (chair: Prof. Eric Fraga)

Model-based evolutionary algorithms: A machine learning approach

By **Dr. Roberto Santana**, University of the Basque Country (Spain)

Room Les Orangers 2 – Energy-aware and smart systems (chair: Dr. Alice Yalaoui)

- Simultaneous lot-sizing and scheduling in a flow-shop system with energy consideration
Oussama Masmoudi, Alice Yalaoui, Yassine Ouazene, Hicham Chehade
 - Towards Optimised Large Scale Deployments of Electric Bus Systems with On-Route Charging
Marcin Seredynski, Djamel Khadraoui, Francesco Viti
 - Location and Selective Routing Problem with Profits for Green Supply Chains
Necati Aras, Tugrul Tekin, Deniz Aksen
 - A Multiobjective approach for demand side management in smart grids
Zineb Garroussi, TALBI El-Ghazali, Ellaia Rachid
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Room Mimosa – Satisfiability and selection problems (chair: Prof. N. Bouhmala)

- Systematic Search for Local-Search SAT Heuristics
Andrew Burnett, Andrew Parkes
 - A Simple and Efficient Variable Neighborhood Structure For The Satisfiability Problem
Noureddine Bouhmala
 - Scheduling meeting by CHN and Min-Conflicts heuristic
Bouhouch Adil, Loqman Chakir, El Qadi Abderrahim
 - Portfolio optimization problem with cardinality constraints
Tomas Tichy, Ales Kresta
-

9h30-10h50

Room Les Orangers 1 – Logistics and Engineering problems (chair: S. Bertel)

- mapGA: A Genetic Algorithm for Mapping Large Ontologies
Guefrouchi Ryma, Mohamed-Khireddine kholladi
- A Case Study for health care Supply Chain
Sylvain Bertel
- Optimal urban traffic management at the crossroads "Rond Point Hassan II", in Casablanca by genetic algorithms
Makrizi Abdelilah, Merbah Amal, Essoufi El Hassan
- Multimodal home-healthcare scheduling with interdependent services
Sophie Lasfargeas, Aymen Sioud, Caroline Gagné

Room Les Orangers 2- Machine learning I (chair: Prof. A. El Afia)

- Metaheuristic Based Clustering Algorithms for Biological Hypergraphs
Boonyarit Changaival, Grégoire Danoy, Marek Ostaszewski, Kittichai Lavangnananda, Pascal Bouvry, Franck Leprevost
- Classification of Facial Image Expression using Binary Encoded Messy GA in Hybrid Metaheuristics Framework
Bhupesh Singh
- Q-learning strategies for action selection in the TESTAR automated testing tool
Anna Esparcia-Alcázar, Francisco Almenar, Mirella Martinez, Urko Rueda, Tanja Vos
- Hidden Markov Model for a Self-Tuning of Simulated Annealing Geometric Cooling Law Parameter
Mohamed Lalaoui, Abdellatif El Afia, Raddouane Chiheb

Room Mimosa – Metaheuristics and software engineering (chair: Dr E. Bourreau)

- Automatically Generating Assessment Tests within Higher Education Context thanks to Genetic Approach
Richardson Cighene, Joiron Céline, Gilles Deq
- Schema Theory for Software Test Data Generation
Abdelilah Sakti, Yann Gueheneuc, Gilles Pesant
- Hybridation of PSO and SFLA for QoS aware web service composition
Sadouki Samia, Tari Abdelkamel, Boudries Fouzia
- Genetic Algorithm to Improve Diversity in MDE
Florian Galinier, Eric Bourreau, Annie Chateau, Adel Ferdjouxh, Clémentine Nebut

10h50-11h20 Coffee Break

Room Les Orangers 1 – Knapsack and packing problems (chair: Prof. Farouk Yalaoui)

- A new hybrid Heuristic for the Two-Dimensional Bin Packing Problem with Partial Conflicts
Salma Mezghani, Boukthir Haddar, Habib Chabchoub
- A Hybrid Bin-Packing algorithm for solving the yard optimization problem.
Chafik Razouk, Youssef Benadada, Jaouad Boukachour
- Bees swarm optimization for molecular docking
Hocine Saadi
- Genetic Algorithm Guided By Pretreatment Information For The 0-1 Multidimensional Knapsack Problem
Abdellah Rezoug, Mohammed Bader-El-Den, Dalila Boughaci

Room Les Orangers 2 – Machine learning II (chair: Dr Ivan Silva)

- Algorithm Selector and Prescheduler in the ICON challenge
François Gonard, Marc Schoenauer, Michele Sebag
- Hybrid Optimization Architecture Using Hopfield Recurrent Network and Genetic Algorithm Applied to Dynamic Programming Problems
Ivan Silva
- Hidden Markov Model classifier for the adaptive ACS-TSP pheromone parameters
Safae Bouzbita, Abdellatif El Afia, Redouane Faizi
- Intrusion Detection System based on a behavioral approach
Mehdi Moukhafi
- Data Analytics Method Based on Feature Extraction for Voltage Sag Source Location
Ivan Silva

Room Mimosa – Swarm intelligence (chair: Dr. A. Nakib)

- Ant Colony Optimization for Optimal Low-Pass Filters Sizing
Loubna Kritele, Bachir Benhala, Izeddine Zorkani
- Solving Flexible Job Shop Scheduling Problem Using A Global Updating Pheromone Rule In Knowledge Based Algorithm
Hayet Lehabab, Sidi Ahmed Rahal
- A weighted sum multi-objective PSO for base station location in a cellular network.
Naima Mezhoud
- On Solving the Quadratic Three-Dimensional Assignment Problem with a PSO Algorithm
Imene Ait Abderrahim

14h30-15h50

European Project Synergy Meeting

16h20 – 18h

European Project Synergy Meeting

Monday, October 31

9h30-10h50

- LIRIMA INRIA associated team MOMH meeting

11h20-12h50

- LIRIMA INRIA associated team MOMH meeting

12h30-14h - Lunch

14h30-16h10

- LIRIMA INRIA associated team MOMH meeting

16h30 – 18h30

- LIRIMA INRIA associated team MOMH meeting

NOTES :

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Conference Place



Organizers

