

ICSIBO'2014 Scientific program

Tuesday, 13 May 2014

08:00 *Welcome*

08:40 *Plenary session 1*
Nicolas Monmarché

Chair: Maurice Clerc
*Artificial ants: collective intelligence in
computing environments*

09:50 *Coffee Break*

Session 1: Particle Swarm Optimization Chair: Patrick Siarry

10:20 Pierre-Olivier Jandaud

Aero-Thermal Optimization of a Heat Sink using Particle Swarm Optimization

10:40 Bernd Bassimir

How Much Forcing is Necessary to Let the Results of Particle Swarms Converge?

11:00 Riad Menasri

Smooth trajectory planning for robot using particle swarm optimization

11:20 Rashed Poormirzaee

PSO: A Powerful and Fast Intelligence Optimization method In Processing of Passive Geophysical Data

11:40 Dominique Chamoret

BSG-Starcraft Radius improvements of Particle Swarm Optimization Algorithm: an application to Ceramic Matrix Composites

12:00 Pierre Parrend

Swarm projects: beyond the metaphor

12:20 *Lunch Break*

Session 2: Hybrid metaheuristics

Chair: Lhassane Idoumghar

14:00 Yucheng Kao

Combining PSO and FCM for Dynamic Fuzzy Clustering Problems

14:20 Akram Bedoui

Hybrid ACO-SA algorithm for the Multi-objective Frequency Assignment Problem in Broadcasting

14:40 Zahir Sahli

Hybrid PSO algorithm for the solving of the Optimal Reactive Power Problem

15:00 Cédric Leboucher

An enhanced Particle Swarm Optimisation algorithm combined with Neural Networks to decrease computational time

15:20 Laurent Deroussi

An hybrid PSO applied to Flexible Manufacturing Systems

15:40 *Coffee Break*

Session 3: Ant colony optimization

Chair: Julien Lepagnot

16:10 Nicolas Monmarché, Sébastien Aupetit

A study of task division of ants for online tuning of metaheuristic parameters

16:30 Sébastien Aupetit, Nicolas Monmarché

Using bio-inspired algorithm to compensate web page color contrast for dichromat users

16:50 Sébastien Aupetit, Nicolas Monmarché

Comparison of two swarm intelligence optimization algorithms on the textual color problem for web accessibility

17:10 Ahmed Nasreddine Benaichouche

Image post-segmentation correction using ant colony optimization

17:40 *Visit & Dinner in Ribeauvillé*

Wednesday, 14 May 2014

08:40 *Plenary session 2*
Maurice Clerc

Chair: Nicolas Monmarché
List-Based Optimisers

09:50 *Coffee Break*

Session 4: Distributed algorithms

Chair: René Schott

- 10:20 Hongjian Wang
Parallel and Distributed Implementation Models for Bio-inspired Optimization Algorithms
- 10:40 Omar Abdelkafi
Multi-level parallelization for hybrid ACO
- 11:00 Takwa Mohsni
Swarm Intelligence-based BPEL Partitioning Process for distributed orchestration
- 11:20 David Lemoine
Particle Swarm Optimization for the Multi-Level Lot Sizing Problem
- 11:40 Redouane Boudjemaa
Accelerated Particle Swarm Optimisation: Weather Network Architecture Case Study

12:00 *Lunch Break*

Session 5: Artificial systems

Chair: Laurent Deroussi

- 13:45 Fabrice Lauri
Fuzzy Logic Control Optimized by Artificial Immune System for Building Thermal Condition
- 14:05 Kawther Hmaidi
Floods Trajectories Modeling and Dynamic Relief Planning: A Bees' Foraging Approach
- 14:25 Yasmine Lahsinat
Improving Biogeography Based Optimization by Using Stochastic Local Search and Solving MI-FAP Problem in GSM Networks
- 14:45 Fazia Aiboud
Various heuristics with cellular automaton to generate 2D shapes

15:05 *Coffee Break*

Session 6: Multi-agent systems

Chair: Abderrafiaâ Koukam

- 15:35 Van-Minh Le
A general approach to solve decomposable optimization problems in multiagent simulations settings: application to tsunami evacuation
- 15:55 Yousef El Mourabit
Intrusion Detection System In Mobile Ad Hoc Network Based On Mobile Agent
- 16:15 Ait Adda Samia
The use of ontology in semantic analysis of the published learner's messages for adaptability
- 16:35 Charly Lersteau
Multiple Mobile Target Tracking in Wireless Sensor Networks
- 16:55 Fabrice Lauri
Robustness Analysis of Multi-Agent Patrolling Strategies using Reinforcement Learning

17:15 *Conference end*