

NIDISC 2014 Program

8:30 - 8:40 - NIDISC 2014 Opening

8:40 - 10:00 - Session 1: Applications of Bio-Inspired Algorithms

- **Using Physical Stigmergy in Decentralized Optimization Under Multiple Non-separable Constraints: Formal Methods and an Intelligent Lighting Example**
Theodore P. Pavlic
- **Hybrid metaheuristic for Annual Hydropower generation Optimization**
Amir Nakib, El-Ghazali Talbi and Alain Fuser
- **Machine-Learning-Based Identification of Defect Patterns in Semiconductor Wafer Maps: An Overview and Proposal**
Fatima Adly, Paul D. Yoo, Sami Muhaidat and Yousof Al-Hammadi
- **Data Quality, Consistency and Interpretation Management for Wind Farms by Using Neural Networks**
Alain Fuser, Florent Fontaine and Jack Copper

10:00 - 10:30 - Coffee Break

10:30 - 11:50 - Session 2: Wireless Networks and Mobility Management

- **Graph - Based Cellular Automata Approach to Maximum Lifetime Coverage Problem in Wireless Sensor Networks**
Antonina Tretyakova, Franciszek Seredynski and Pascal Bouvry
- **GPU Accelerated Nature Inspired Methods for Modelling Large Scale Bi-directional Pedestrian Movement**
Sankha Baran Dutta, Robert McLeod and Marcia Friesen
- **Improving Bus Ride Comfort Using Dynamic Speed Optimisation**
Marcin Seredynski, Patricia Ruiz, Krzysztof Szczypiorski, and Djamel Khadraoui
- **A Genetic Algorithm-based Sparse Coverage Over Urban VANETs**
Huang Cheng, Xin Fei, Azzedine Boukerche, and Mohammed Almulla

11:50 – 14:00 - LUNCH

14:00 – 15:00 – Session 3: Multi-Objective Optimization

- **A Game-Theoretic Approach to Multi-Objective Agent-Based Parallel Job Scheduling Problem in Cloud Computing Systems**

Jakub Gasiór and Franciszek Sereczynski

- **Multi-level and Multi-objective Survey on Cloud Scheduling**

Yacine Kessaci, Nouredine Melab and Ghazali Talbi

- **Comparison of Multi-objective Optimization Algorithms for the JShadObf JavaScript Obfuscator**

Benoît Bertholon, Sébastien Varrette and Pascal Bouvry

15:00 - 15:10 - NIDISC 2014 Closing