

# NIDISC 2009 Programme

## 08:30-08:40 NIDISC 2009 Opening

## 08:40-10:00 Session 1: Networking

- **Evolutionary Game Theoretical Analysis of Reputation-based Packet Forwarding in Civilian Mobile Ad Hoc Networks**

M. Seredynski, P. Bouvry

- **Metaheuristic Traceability Attack against SLMAP, an RFID Lightweight Authentication Protocol**

J. C. Hernandez-Castro, J. E. Tapiador, P. Peris-Lopez, J. A. Clark, E-G. Talbi

- **A Multi-objective Strategy for Concurrent Mapping and Routing in Networks on Chip**

R. Tornero, V. Sterrantino, M. Palesi, J. M. Orduna

- **The Effect of Population Density on the Performance of a Spatial Social Network Algorithm for Multi-Objective Optimisation**

A. Lewis

## 10:00-10:30 Coffee break

## 10:30-12:10 Session 2: Bioinformatics and bioinspired metaheuristics

- **Hybridization of Genetic and Quantum Algorithm for Gene Selection and Classification of Microarray Data**

A. Allani, E-G Talbi, K. Mellouli

- **Fine Grained Population Diversity Analysis for Parallel Genetic Programming**

S. Winkler, M. Affenzeller, S. Wagner

- **Adaptative Clustering Particle Swarm Optimization**

S. S. Madeiro, C. J. A. Bastos-Filho, F. B. Lima Neto, E. M. N. Figueiredo

- **Exact Pairwise Alignment of Huge Biological Sequences with the Z-align Parallel Strategy**

A. Boukerche, R. Bezerra Batista, A. C. Magalhaes Alves de Melo

## **12:10-13:40 LUNCH**

## **13:40-15:00 Session 3: Parallel and Grid enabled combinatorial optimization**

- **Using XMPP for ad-hoc grid computing - an application example using parallel ant colony optimization**

G. Weis, A. Lewis

- **Multi-thread cooperative optimization for rich combinatorial problems**

N. Lahrichi, G. C. Crisan, T. G. Crainic, W. Rei, M. Gendreau

- **Parallel Nested Monte-Carlo Search**

T. Cazenave, N. Jouandeau

- **Improving genetic algorithms by time-shuffling to evolve agent systems**

P. Ediger and R. Hoffmann

## **15:00-15:30 Coffee break**

## **15:30-17:10 Session 4: Scheduling and assignment**

- **Interweaving Heterogeneous Metaheuristics Using Harmony Search**

Y. C. Lee, A. Zomaya

- **New sequential and parallel algorithm for Dynamic Resource Constrained Project Scheduling Problem**

A. R. Villela da Silva, L. Satoru Ochi

- **Solving the industrial car sequencing problem in a Pareto sense**

A. Zinflou, C. Gagné, M. Gravel

- **A Parallel Hybrid Genetic Algorithm-Simulated Annealing for Solving Q3AP on Computational Grid**

L. Loukil, M. Mehdi, N. Melab, E-G. Talbi, P. Bouvry

- **Solving multiprocessor scheduling problem with GEO metaheuristic**

P. Switalski, F. Seredynski,

## **17:10-17:30 NIDISC 2009 Closing**