

Wednesday, October 8th, 2014

09:00-11:00 Registration

11:00-11:15 Room: GIRBA

Opening Address by *Pr. Abdelwaheb Rebaï*

11:15-11:30 Break

11:30-12:30 Room: GIRBA

Chair: *Pr. Günther Raidl*

Keynote Speech by *Pr. Pierre Hansen, GERAD and HEC Montreal, Canada.*
Variable neighborhood search and discovery in graph theory

12:30-14:30 Lunch

14:30-15:30 Room: GIRBA

Chair: *Pr. Abraham Duarte*

Keynote Speech by *Pr. Saïd Salhi, Kent Business School (UK)*
Large scale discrete location problems: Exact and VNS-based approaches

15:30-16:00 Coffee break

16:00-18:00 Room: GIRBA

Chair: *Pr. Milan Drafi*

A VNS-based quartet algorithm for biomedical literature clustering
Sergio Consoli and Nikolaos I. Stilianakis

Assigning surgery cases to operating rooms: A VNS approach for leveling ward beds occupancies
Roberto Aringhieri, Paolo Landa and Elena Tanfani

A variable neighborhood search approach to the exploration of an online social network
Vera Kova evi Vuj i , Mirjana angalovi and Jozef Kratica

Using VNS for the optimal synthesis of the communication tree in wireless sensor networks
Adil Erzin, Roman V. Plotnikov

The continuous p-centre problem: A variable neighbourhood search approach with learning

Abdalla Elshaikh, Said Salhi and Gábor Nagy

A variable neighborhood search branching for the electric vehicle routing problem with time windows

Maurizio Bruglieri, Ferdinando Pezzella, Ornella Pisacane and Stefano Suraci

16:00-18:00

Room: AJIM

Chair: Pr. Yuri Kochetov

VNS solutions for the critical node problem

Roberto Aringhieri, Andrea Grosso, Pierre Hosteins and Rosario Scatamacchia

A Generalized Variable Neighborhood Search For Combinatorial Optimization Problems

Noureddine Bouhmala

Variable neighbourhood search variants for cyclic bandwidth problem

AnThanh Pham Trinh, Rubén Carrasco, Micael Gallego, Francisco Gortázar and Abraham Duarte

General variable neighborhood search applied to the picking process in a warehouse

Borja Menéndez, Eduardo G. Pardo, Abraham Duarte, Antonio Alonso-Ayuso and Elisenda Molina

Solving dynamic memory allocation problems in embedded systems with parallel variable neighborhood search strategies

Jesus Sanchez-Oro, Marc Sevaux, André Rossi, Rafel Marti and Abraham Duarte

Search for robust communities by variable neighborhood search

G. Caporossi, G. Benoit and S. Perron

16:00-18:00

Room: GUELLALA

Chair: Pr. Adil Erzin

Comparison of heuristics for the bilevel facility location and mill pricing problem

Alexandr Plyasunov, Yury Kochetov and Artem Panin

The GUI components location problem

Marko Mladenovic, Selem Charfi and Raca Todosijevic

An efficient variable neighborhood search for solving a robust dynamic facility location problem in emergency service network

Stefan Miskovic, Zorica Stanimirovi and Igor Grujicic

General variable neighborhood search for the multi-product dynamic lot sizing problem in closed-loop supply chain

Angelo Sifaleras and Ioannis Konstantaras

VNS-based heuristic with an exponential neighborhood for the server load balancing problem

Ivan Davydov and Yury Kochetov

Solving the maximum clique problem with skewed general variable neighborhood search

Jack Brimberg, Nenad Mladenovic and Dragan Urošević

A heuristic for the time-dependent vehicle routing problem with time window
Sylvain Perron, Gilles Caporossi, Vincent Huart and Christophe Duhamel

Thursday, October 09th, 2014

07:30-08:30 **Breakfast**

09:00-10:00 **Room: GIRBA**

Chair: Pr. Angelo Sifaleras

Keynote Speech by Mr. Christian Maquaire, Director of Innovation, Research and Development, Railénium.

- *Presentation of IRT Railénium*
- *How to perform in maintenance*

10:00-10:30 **Coffee break**

10:30-12:30 **Room: GIRBA**

Chair: Mr. Christian Maquaire

Variable neighborhood search for integrated timetable based design of railway infrastructure

Igor Grujicic, Günther Ridl and, Andreas Schobel

A variable neighborhood search for the track maintenance scheduling problem

Zorica Drafi , Milan Drafi and Nenad Mladenovi

Multi-objective Iterated Greedy Variable Neighborhood Search Algorithm For Solving a full-load automated guided vehicle routing problem with battery constraints

Olfa Chebbi and Jouhaina Chaouachi

Variable neighborhood search based heuristic for the periodic single machine maintenance with setup times

Zorica Drafi and Marko Mladenovi

VNS as an upper bound for an exact method to solve a class of on-demand transit transportation systems

Ezzeddine Fatnassi and Jouhaina Chaouachi

The capillary railway network problem

Abdessamad Ait El Cadi, Artiba Abdelhakim, Mohamed Boualaga, Christian Maquaire and Nenad Mladenovi

An efficient General VNS for the periodic maintenance problem

Raca Todosijevic, Rachid Benmansour, Said Hanafi, Nenad Mladenovic and Abdelhakim Artiba

Preventive maintenance planning by VNS

Nenad Mladenovic, Tamara Djurovic , Said Hanafi and Dragan Urosevic

10:30-12:30

Room: AJIM

Chair: Pr. *Gunther Raidl*

Variable neighborhood search for the k-labelled spanning forest problem

Sergio Consoli and José Andrés Moreno Pérez

A distributed hybrid algorithm for solving complex combinatorial optimization problems, case of GA-VNS-SA for TSP

Mohammed Yagouni, Imene Benkalai and Hoai An Le Thi

Construction of mixed covering arrays using a combination of simulated annealing and variable neighborhood search

Arturo Rodriguez-Cristerna, Jose Torres-Jimenez, W. Gomez and W. C. A. Pereira

Meta heuristic approach for equity derivative matching

Nareyus Lawrance Amaldass

Clustering cities based on their development dynamics and variable neighborhood search

Boris Zhikharevich, Olga Rusetskaya and Nenad Mladenovic

VNS variants for the Max-Mean dispersion problem

Francisco Gortázar, Rubén Carrasco, AnThanh Pham Trinh, Micael Gallego and Abraham Duarte

10:30-12:30

Room: GUELLALA

Chair: Pr. *Vera Kovecvi ó Vuj i*

Replicated parallel strategies for decomposition guided VNS

Abdelkader Ouali, Samir Loudni, Lakhdar Loukil, Patrice Boizumault and Yahia Lebbah

Boosting an exact logic-based benders decomposition approach by variable neighborhood search

Gunther Raidl, Thomas Baumhauer and Bin Hu

Solving the 3-Stage 2-Dimensional cutting stock problem by dynamic programming and variable neighborhood search

Frederico Dusberger and Gunther Raidl

A variable neighborhood search for the vehicle routing problem with time windows and preventive maintenance activity

Amine Dhahri, Kamel Zidi, and Khaled Ghedira

Solving the 3-D Yard Allocation Problem for Break Bulk Cargo via Variable Neighborhood Search Branching

Maurizio Bruglieri, Eliane Gerzelj, Andrea Guenzani, Roberto Maja and Rosa Alvarenga Rodrigo

Variable neighborhood search heuristic for the metric dimension problem on hypercubes

Nebojsa Nikolic, Mirjana Cangalovi and Dzamic Dusan

A Game Theory Multiple-Criterion Approach for the Vehicle Routing Problem with Multiple Time Windows

Slim Belhaiza

12:30-14:30

Lunch

14:30-15:30

Room: GIRBA

Chair: *Mirjana Cangalovi*

Keynote Speech by *Pr. Günther Raidl, Vienna University of Technology, Austria*
Variable Neighborhood Search Hybrids

15:30-16:00

Coffee Break

16:00-18:00

Room: GIRBA

Chair: *Pr. Sergio Consoli*

A variable neighbourhood descent algorithm for the course timetabling problem the case of a tunisian educational institution
Rahma Borchani and Abdelkarim Elloumi

VNS approach for solving a financial portfolio design problem
Fatima Zohra LEBBAH and Yahia LEBBAH

A variable neighborhood search algorithm for the vehicle routing problem with multiple trips
Mohamed Cheikh, Mustapha Ratli, Omar Mkaouar and Bassem Jarboui

A hybrid variable neighborhood search algorithm for targeted orders in direct marketing
T. A. Oliveira, V. N. Coelho, M. J. F. Souza, D. L. T. Boava, F. Boava, I. M. Coelho and B. N. Coelho

A hybrid VND method for the split delivery vehicle routing problem
Alexey Khmelev and Yury Kochetov

16:00-18:00

Room: AJIM

Chair: *Pr. Quiuhong Zhao*

A variable neighborhood search method for solving the traveling tournaments problem
Meriem Khelifa and Dalila Boughaci

Splitting a Giant Tour using Integer Linear Programming
Mouaouia Cherif Bouzid, Hacene Aït Haddadene and Said Salhi

A hybrid fuzzy SLS-VNS classifier for intrusion detection
Bachir Bahamida and Dalila Boughaci

Skewed VNS for solving a multi-criteria optimization problem modeled using boolean consistent fuzzy logic
Nina Turajli and Nenad Mladenovic

Chinese national emergency warehouse location research based on VNS algorithm
Feng Ye, Quiuhong Zhao, Menghao Xi and Maged Dessouky

A variable neighborhood descent approach for the two-dimensional bin packing

16:00-18:00	<p>problem <i>Nadia Dahmani, Dhouha Ghazouani and Saoussen Krichen</i></p> <p>Variable neighborhood search heuristic for covering design problem <i>Nebojsa Nikolic, Nenad Mladenovic, Igor Grujicic and Dragana Makajic-Nikolic</i></p>
	<p>Room: GUELLALA</p>
	<p>Chair: Pr. Khaled Jabeur</p>
	<p>An adaptive variable neighborhood search for solving the multi-objective node placement problem <i>Ons Abdelkhalek, Hela Masri and Saoussen Krichen</i></p> <p>Multi-criteria ABC inventory classification using electre III method and continuous variable neighborhood search (CVNS) <i>Radhouane Douissa and Khaled Jabeur</i></p> <p>A hybrid particle swarm optimization and variable neighborhood search to solve the production on orders problem <i>Mohamed Essalah Salah , Slah Ben Youssef and Abdelwaheb Rebaï</i></p> <p>Learning criteria weights with TOPSIS method and continuous VNS for multi-criteria inventory classification <i>Hadhami Kaabi, Khaled Jabeur and Lamia Enneifar</i></p> <p>New multi-objective approach for the home care service problem based on scheduling algorithms and variable neighborhood descent <i>Brahim Issaoui, Issam Zidi, Eric Marcon and Khaled Ghrdira</i></p> <p>0 1 Quadratic knapsack problem solved with VNS algorithm <i>Saïd Toumi, Mohamed Cheikh and Bassem Jarbouï</i></p>

Friday, October 10 th , 2014	
07:00-08:00	Breakfast
08:00-16:00	Cruise Tour
20:00-23:00	Gala Closing Dinner Closing Remarks by <i>Pr. Nenad Mladenovic</i>

Saturday, October 11 th , 2014	
Breakfast and Free time	