

Conference Program

(Sithonia, Halkidiki, Greece, 4-7 October 2018)

Thursday, October 4, 2018

20.00 - 23.00 Welcome Cocktail

Friday, October 5, 2018

08.00 - 09.00 Registration

09.00 - 09.30 Opening Session (*Room: THALIA*)

09.30 - 10.30 Plenary Talk (*Room: THALIA*), Chair: Athanasios Migdalas

On VNS for Hard Optimization Problems and the Power of Heuristics
Panos Pardalos

10.30 - 12.00 Session 1 (*Room: THALIA*), Chair: Panos Pardalos

Multi Objective Optimization and VNS Strategies
Rolf Steinbuch

Detecting weak points in networks using Variable Neighborhood Search
Sergio Pérez-Peló, Jesús Sánchez-Oro Calvo, Abraham Duarte

On the k-medoids model for semi-supervised clustering
Rodrigo Randel, Daniel Aloise, Nenad Mladenović, Pierre Hansen

Variable Neighborhood Scatter Search for the Incremental Graph Drawing Problem
Anna Martínez-Gavara, Jesús Sánchez-Oro Calvo, Manuel Laguna, Rafael Marti, Abraham Duarte

10.30 - 12.00 Session 2 (*Room: CHLOE*), Chair: Sergio Consoli

A Variable Neighborhood Search approach for solving the Multidimensional Multi-way Number Partitioning Problem
Alexandre Frias Faria, Sérgio Ricardo de Souza, Marcone Jamilson Freitas Souza, Carlos Alexandre Silva, Vitor Nazário Coelho

A Granular Skewed Variable Neighborhood Tabu Search for the Roaming Salesman Problem
Masoud Shahmanzari, Deniz Aksen

A multi-objective VNS for the Generalized Team Orienteering Problem
Adolfo J. Urrutia Zambrana, Gregorio Tirado Dominguez, Alfonso Mateos Caballero

Improved variable neighbourhood search heuristic for quartet clustering
Sergio Consoli, Jan Korst, Steffen Pauws, Gijs Geleijnse

12.00 - 12.30 Coffee break

12.30 - 14.00 Session 3 (*Room: THALIA*), Chair: Eduardo G. Pardo

A Trilevel r-Interdiction Multi-Depot Vehicle Routing Problem with Customer Selection
Mir Ehsan Hesam Sadati, Deniz Aksen, Necati Aras

An Evolutionary Variable Neighborhood Descent for addressing an electric VRP variant
Dhekra Rezgui, Hend Bouziri, Wassila Aggoune-Mtalaa, Jouhaina Chaouachi Siala

On the optimization of multiple vehicles open routes
Ana D. López-Sánchez, Jesús Sánchez-Oro Calvo, J. Manuel Colmenar

New VNS variants for the Online Order Batching Problem
Sergio Gil-Borrás, Eduardo G. Pardo, Abraham Duarte, Antonio Alonso-Ayuso

12.30 - 14.00 Session 4 (*Room: CHLOE*), Chair: Vitor Nazário Coelho

A Variable Neighborhood Descent heuristic for the multi-quay Berth Allocation and Crane Assignment Problem under availability constraints

Issam Krimi, Afaf Aloullal, Rachid Benmansour, Abdessamad Ait El Cadi, Laurent Deshayes, David Duvivier

Complexity and Heuristics for the Max Cut-Clique Problem

Mathias Bourel, Eduardo Canale, Franco Robledo, Pablo Romero, Luis Stábile

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	Less is More: The Neighborhood Guided Evolution Strategies convergence on some classic neighborhood operators <i>Vitor Nazário Coelho, Igor Machado Coelho, Nenad Mladenovic, Helena Ramalinho, Luiz Satoru, Frederico Guimarães, Marcone Souza</i>
	Studying the impact of perturbation methods on the efficiency of GVNS for the ATSP <i>Christos Papalitsas, Theodore Andronikos, Panagiotis Karakostas</i>
14.00 - 15.30	Lunch
15.30 - 17.00	Session 5 (Room: THALIA), Chair: J. Manuel Colmenar
	A hybrid VNS-NSGAI for solving the dual resource constrained flexible job shop problem <i>Zoran Rakićević, Nina Turajlic, Dragana Makajic-Nikolic, Gordana Savic, Nenad Mladenović</i>
	A VNS approach to solve multi-level capacitated lotsizing problem with backlogging <i>Jerzy Duda, Adam Stawowy</i>
	Basic VNS algorithms for solving the pollution location inventory routing problem <i>Panagiotis Karakostas, Angelo Sifaleras, Michael Georgiadis</i>
	How to locate disperse obnoxious facility centers? <i>Jesús Sánchez-Oro Calvo, J. Manuel Colmenar, Enrique García-Galán, Ana D. López-Sánchez</i>
17.00 - 17.30	Coffee break
17.30 - 18.30	Plenary Talk (Room: THALIA), Chair: Nenad Mladenović
	Clustering and Variable Neighborhood Search: A love story <i>Daniel Aloise</i>
20.00 - 23.00	Excursion to Neos Marmaras

Saturday, October 6, 2018

09.00 - 09.30	Registration
09.30 - 10.30	Plenary Talk (Room: THALIA), Chair: Nenad Mladenović
	Parallel VNS strategies <i>Abraham Duarte</i>
10.30 - 12.00	Session 6 (Room: THALIA), Chair: Abraham Duarte
	A Variable Neighbourhood Search for the Packing of Rectangles into a Fixed Size Circular Container <i>Mouaouia Cherif Bouzid, Said Salhi</i>
	A Hybrid Firefly - VNS Algorithm for the Permutation Flowshop Scheduling Problem <i>Andromachi Taxisidou, Ioannis Karafyllidis, Magdalene Marinaki, Yannis Marinakis, Athanasios Migdalas</i>
	Primal-dual VNS for large p-center problem <i>Jack Brimberg, Marija Ivanović, Nenad Mladenović, Dragan Urošević</i>
	Finding balanced bicliques in bipartite graphs using Variable Neighborhood Search <i>Jesús Sánchez-Oro Calvo, Juan David Quintana, Abraham Duarte</i>
10.30 - 12.00	Session 7 (Room: CHLOE), Chair: Zorica Stanimirović
	An adaptive VNS and Skewed GVNS approaches for School Timetabling Problems <i>Ulisses Teixeira, Marcone Jamilson Freitas Souza, Sérgio Ricardo de Souza, Vitor Nazário Coelho</i>
	Profit maximization of Internet of things provider using variable neighbourhood search <i>Vesna Radonjić Đogatović, Marko Djogatović, Milorad Stanojević, Nenad Mladenović</i>
	General Variable Neighborhood Search for the Scheduling Heterogeneous Vehicles in Agriculture <i>Ana Anokić, Zorica Stanimirović, Djordje Stakić, Tatjana Davidović</i>
	VNS for optimizing the structure of a logical function in IBA framework <i>Pavle Milošević, Ana Poledica, Ivana Dragovic, Bratislav Petrović, Aleksandar Rakićević</i>

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12.00 - 12.30	Coffee break
12.30 - 14.00	Session 8 (Room: THALIA), Chair: Daniel Aloise
	A VNS-based Algorithm with Adaptive Local Search for the MDVRP <i>Sinaide Nunes Bezerra, Marcone Jamilson Freitas Souza, Sérgio Ricardo de Souza, Vitor Nazário Coelho</i>
	Skewed Variable Neighborhood Search Method for the Weighted Generalized Regenerator Location Problem <i>Lazar Mrkela, Zorica Stanimirović</i>
	GVNS applied to the Weighted Fair Sequences Problem <i>Bruno J. S. Pessoa, Antônio V. C. S. Duarte, Lucidio A. F. Cabral, Daniel Aloise</i>
	Parallel variable neighborhood search for the capacitated vehicle routing problem <i>Panos Kalatzantonakis, Angelo Sifaleras, Nikolaos Samaras, Athanasios Migdalas</i>
12.30 - 14.00	Session 9 (Room: CHLOE), Chair: José Andrés Moreno Pérez
	Variable Neighbourhood Search Based Data Association Filter for Multiple-target Tracking <i>Marko Djogatović, Vesna Radonjić Đogotović, Milorad Stanojević, Nenad Mladenović</i>
	Reference point based VNS for multiobjective capacitated vehicle routing <i>Laura Delgado Antequera, Jesús Sánchez-Oro Calvo, Rafael Marti, J. Manuel Colmenar</i>
	A Variable neighborhood search with integer programming for the zero-one Multiple-Choice Knapsack Problem with Setup <i>Yassine Adouani, Bassem Jarboui, Malek Masmoudi</i>
	A GRASP-VNS for solving a Vehicle Routing Problem for Waste Collection <i>José Andrés Moreno Pérez, Airam Expósito Márquez, Christopher Expósito Izquierdo, Julio Brito Santana, Dagoberto Castellanos Nieves</i>
14.00 - 15.30	Lunch
15.30 - 17.00	Session 10 (Room: THALIA), Chair: Rachid Benmansour
	Solving the Vertex Bisection problem with a Basic Variable Neighborhood Search algorithm <i>Alberto Herrán, J. Manuel Colmenar, Abraham Duarte</i>
	Bi-objective VNS in 5G HetNets for Channel Allocation <i>Mara Bukvić, Mirjana Čangalović, Milan Stanojević, Bogdana Stanojević</i>
	VNS for tail index estimation <i>Jelena Jocković, Pavle Mladenović</i>
	Using a variable neighborhood search to solve the single processor scheduling problem with time restrictions <i>Rachid Benmansour, Oliver Braun, Said Hanafi, Nenad Mladenović</i>
17.00 - 17.30	Coffee break
17.30 - 18.30	Closing Session (Room: THALIA)
20.00 - 23.00	Gala dinner

Sunday, October 7, 2018

Free time