Tuesday, June 15

<u>*Oral Presentations Session* I</u>

12:00 – 12:15   **Anytime Tree Searches for Discrete Optimization**
Luc Libralesso,Vincent Jost, Louis Esperet
Grenoble Alpes University, CNRS, France

12:15 – 12:30   **Digital Twin-Driven Stochastic Optimization Methods for MRP using Metaheuristics and Machining Learning**
Dan Luo, Alexandre Dolgui, Simon Thevenin
IMT Atlantique, LS2N-CNRS, France

12:30 – 12:45   **The KLNN Algorithm**
Christian Braathen
Norwegian School of Economics (NHH)

12:45 – 13:00   **Cyclic, bidirectional train timetabling and platforming in a complex railway environment**
Guillaume Joubert, Dritan Nace, Antoine Jouglet, Marion Postec
SNCF Réseau & Heudiasyc, Heudiasyc, Heudiasyc, SNCF Réseau, France

Tuesday, June 15

<u>*Oral Presentations Session* II</u>

16:30 – 16:45   **Matheuristics for a generalized multi-port container ship stowage problem**
Consuelo Parreño-Torres, Ramon Alvarez-Valdes, Rubén Ruiz, Hatice Çalik
University of Valencia, Spain

16:45 – 17:00   **Deep learning in commodity procurement: Non-linear data-driven optimization of hedging decisions**
Nicolas Busch, *Tobias Crönert*, Stefan Minner, Moritz Rettinger, Burakhan Sel
Technical University of Munich, TUM School of Management, Germany

17:00 – 17:15   **Adaptive neighborhood simulated annealing for the heterogeneous fleet vehicle routing problem with multiple cross-docks**
F Yu Vincent, Parida Jewpanya, *AAN Perwira Redi*, Yu-Chung Tsao
Industrial Engineering Department, BINUS Graduate Program – Master of Industrial Engineering, Bina Nusantara University, Indonesia

17:15 – 17:30   **A matheuristic for the robust integrated airline scheduling problem**
Mohamed Ben Ahmed[1], Maryia Hryhoryeva[1], Lars Magnus Hvattum[1], Mohamed Haouari[2]
[1] Faculty of Logistics, Molde University College, PO Box 2110, NO-6402 Molde, Norway
[2] Department of Mechanical and Industrial Engineering, College of Engineering, Qatar University, P.O. Box 2713, Doha, Qatar

17:30 – 17:45   **The role of competition in social groups: the case study of ant colonies and it applications**
Carolina Crespi, Mario Pavone
Department of Mathematics and Computer Sciene, University of Catania, Italy

17:45 – 18:00   **Developing an Exact Zoning Optimization Model for Marine Spatial Planning (MSP)**
Mohadese BASIRATI, Patrick MEYER, Romain BILLOT, Erwan BOCHER
IMT Atlantique, Lab-STICC, UBL, 29238 Brest, France

Wednesday, June 16

16:30 – 16:45   ***A metaheuristic for the Min-Max Close-Enough Arc Routing Problem***
Ángel Corberán, Isaac Plana, *Miguel Reula*, J.M. Sanchis
Universitat de València, Universitat Politècnica de València, Spain

16:45 – 17:00   ***An adaptive large neighborhood search heuristic for the drilling rig routing problem***
Igor Kulachenko, Polina Kononova
Novosibirsk State University, Sobolev Institute of Mathematics SB RAS, Russian Federation

17:00 – 17:15   ***A metaheuristic comparison for the resource-constrained research project selection and scheduling problem in multiple Antarctic stations***
Mauricio Vega-Hidalgo, Lorena Pradenas, Víctor Parada
Department of Industrial Engineering, University of Concepción; Department of Computer Engineering, University of Santiago de Chile

17:15 – 17:30   ***Railway node capacity evaluation: a timetable-saturation approach and its application to the Novara freight terminal***
Bianca Pascariu [a], Nicola Coviell [b], Andrea D'Ariano [a]
[a] Roma Tre University, Department of Engineering, Rome, Italy
[b] Senior Research Engineer, TrenoLab SrLS, Via Maniacco, 7/A, 34170, Gorizia, Italy

17:30 – 17:45   ***A matheuristic model for multi-objective optimization of a multi-energy system***
Antoine Mallégol, Arwa Khannoussi, Mehrdad Mohammadi, Pierrick Haurant, Mohamed Tahar Mabrouk, Bruno Lacarrière, Patrick Meyer
IMT Atlantique, Université Lyon 2, France

17:45 – 18:00   ***Detecting Communities in Complex Networks using a Hybrid Immunological Algorithm***
Rocco A. Scollo, Mario Pavone
Department of Mathematics and Computer Sciencec, University of Catania, Italy

Thursday, June 17

17:40 – 17:55   ***Benchmarking metaheuristics performance on the energy management of a sustainable solar vehicle***
Dagoberto Cifuentes, Lorena Pradenas
University of Concepcion, Chile

17:55 – 18:10   ***Combining Simulation and Optimization for Traffic Disturbance Recovery in a Busy Metro System***
M. L. Tessitore, M. Samà, A. D'Ariano, L. Hélouet, D. Pacciarelli
Roma Tre University, Inria Rennes

18:10 – 18:25   ***Optimization and energy management of a residential Microgrid with Vehicle-to-Home (V2H) and Vehicle-to-Grid (V2G) energy services***
Mohamed Saâd EL HARRAB, Michel NAKHLA
MINES ParisTech

18:25 – 18:40   ***The Production Inventory Routing Planning and its Extensions***
Ege Somer
Koc University, Turkey

18:40 – 18:55   ***A Stochastic Nash equilibrium problem for medical supply competition***
Georgia Fargetta, Antonino Maugeri, Laura Scrimali
Department of Mathematics and Computer Sciencec, University of Catania, Italy

Friday, June 18

16:40 – 16:55   ***A learning-based Iterated Local Search Algorithm for TSP***
Maryam Karimi Mamaghan, Patrick Meyer, Mehrdad Mohammadi, Bastien Pasdeloup
IMT Atlantique, Lab-STICC, UMR CNRS 6285, F-29238 Brest, France

16:55 – 17:10   ***Heuristics and meta-heuristics for constructing low cost spanning trees with constrained diameter***
Prem Prakash Vuppuluri, Patvardhan Chellapilla
Dayalbagh Educational Institute, Agra, India

17:10 – 17:25   ***Two Metaheuristics for the Maximum Network Flow***
Francesco Zito, Antonio G. Spampinato and Mario Pavone
Department of Mathematics and Computer Sciencec, University of Catania, Italy

17:25 – 17:40   ***Template-based Visualization of Metaheuristics***
Michiel Van Lancker, Greet Vanden Berghe, Tony Wauters
KU Leuven, Belgium