Preliminary Conference Programme

(Ouro Preto, 2-4 October 2017)

Monday, 2nd October 2017

14:00-14:30 (Plenary Room)
Opening Session

14:30-15:30 (Plenary Room)
Plenary Talk - Prof. Christian Blum
Construct, Merge, Solve & Adapt

15:30-16:00 (Coffee Break)

16:00-18:05 (Plenary Room)

16:00–16:25 **A Variable Neighborhood Search for solving a distribution problem in post-disaster relief**

Andréa Cynthia Santos

16:25–16:50 **Using a variable neighborhood search for solving a bi-objective identical parallel machine scheduling problem**

Leandro Mundim and Thiago Queiroz

16:50–17:15 **Vehicle Routing Problem with Boarder Costs**

Lucas Esperancini Moreira E Moreira and Franklina Maria Bragion Toledo

17:15–17:40 **A novel List-Constrained Randomized VND approach in GPU for the Traveling Thief Problem**

Rodolfo Pereira Araujo, Eyder Rios, Igor Machado Coelho, Leandro A. J. Marzulo and Maria Clicia Castro

17:40–18:05 **A MILP-based VND for the min-max regret Shortest Path Tree Problem with interval costs**

Iago A. Carvalho, Thiago Noronha, Christophe Duhamel and Luiz Vieira

Preliminary Conference Programme

(Ouro Preto, 2-4 October 2017)

Tuesday, 3rd October 2017

09:00-10:15 (Plenary Room)

09:00–09:25 **VNS Multi-start Approach for Generic Generalized Block-modeling**

Micheli Knechtel, Philippe Michelon, Serigne Gueye and Luis Satoru

09:25–09:50 **General Variable Neighborhood Search for the Data Mule Scheduling Problem**

Pablo Luiz Araujo Munhoz, Pedro Henrique Gonzalez, Uéverton Souza, Luiz Satoru Ochi, Philippe Michelon and Lúcia Drummond

09:50–10:15 **Heuristic Approaches to the Distinguishing Substring Selection Problem**

Jean Torres, Emerson Silva and Edna Hoshino

10:15-10:45 (Coffee Break)

10:45-12:00 (Plenary Room)

10:45–11:10 **Calibration of a type 2 controller applied to a buck converter: a multi-objective analysis**

Diógenes Ferreira and Vitor N. Coelho

11:10–11:35 **A VNS algorithm for feature selection in hierarchical classification context**

Helen Costa, Leandro R. Galvão, Luiz H. C. Merschmann and Marcone J. F. Souza

11:35–12:00 **Optimal Decision Trees for Feature Based Parameter Tuning: Integer Programming Model and VNS Heuristic**

Matheus Vilas Boas, Haroldo Santos and Luiz Merschmann

12:00-14:00 (Lunch)

Preliminary Conference Programme

(Ouro Preto, 2-4 October 2017)

14:00-15:40 (Plenary Room)

14:00–14:25 **ILP-Based Reduced Variable Neighborhood Search for Large-Scale Minimum Common String Partition**
Christian Blum

14:25–14:50 **A Variable Neighborhood Descent as ILS local search to the minimisation of the total weighted tardiness on unrelated parallel machines and sequence dependent setup times**
Rodney Oliveira Marinho Diana, Sergio Ricardo De Souza and Moacir F. França Filho

14:50–15:15 **BRKGA/VND Hybrid Algorithm for the Classic Three and Two-dimensional Bin Packing Problem**
Anderson Zudio, Daniel H. S. Costa, Bruno P. Masquio, Igor M. Coelho and Paulo E. D. Pinto

15:15–15:40 **On integrating an Iterated Variable Neighborhood Search within a bi-objective Genetic Algorithm: Sum Coloring of Graphs Case Application**   Olfa Harrabi, Jouhaina Siala and Hend Bouziri

15:40-16:10 (Coffee Break)

16:10-18:05 (Plenary Room)

16:10–16:25 **A novel variable neighborhood search for multi-family capacitated lot-sizing problem**
Jerzy Duda and Adam Stawowy

16:25–16:50 **The Multiple Traveling Salesman Problem with Backup Coverage**
Guilherme Dhein, Alberto Kummer Neto and Olinto Araújo

16:50–17:15 **Hybrid VNS Heuristics for the production scheduling of costumes for Brazilian carnival samba schools**
Dalessandro Vianna, Camila Soares, Edwin Mitacc, Iara Tammela and Rodolfo Cardoso

17:15–17:40 **Variable Neighborhood Search for Vehicle Routing Problem with Multiple Time Windows**
Huggo Silva Ferreira, Eduardo Theodoro, Thiago Noronha, Slim Belhaiza and Christian Prins

17:40–18:05 **A hybrid Lagrangean metaheuristic for single machine scheduling problem with sequence-dependent setup times, release dates and due dates**   Thiago Henrique Nogueira, Helena Ramalhinho and Martín Gomez Ravetti

Preliminary Conference Programme

(Ouro Preto, 2-4 October 2017)

Wednesday, 4th October 2017

09:00-10:15 (Plenary Room)

09:00–09:25 **A modified variable neighborhood search hybridized with genetic algorithm for vehicle routing problems with cross-docking**

Ali Baniamerian, Mahdi Bashiri and Fahimeh Zabihi

09:25–09:50 **A GVNS algorithm for solving the Multi-Depot Routing Vehicle Problem**

Sinaide Nunes Bezerra, Marcone Jamilson Freitas Souza and Sérgio Ricardo de Souza

09:50–10:15 **Learning music time series with a parallel hybrid forecasting model calibrated with GVNS**

Mateus N. Coelho, Vitor N. Coelho, Igor Machado Coelho, Bruno Nazário Coelho and Marcone Jamilson Freitas Souza

10:15-10:45 (Coffee Break)

10:45-12:00 (Plenary Room)

10:45–11:10 **Randomized Variable Neighborhood Descent Heuristic to solve the Flying Sidekick Traveling Salesman Problem**   Julia C. Freitas and Puca H. V. Penna

11:10–11:35 **Algorithms based on VNS for solving the Single Machine Scheduling Problem with Earliness and Tardiness Penalties**   Bruno Ferreira Rosa, Marcone Jamilson Freitas Souza and Sergio Ricardo De Souza

11:35–12:00 **Efficient heuristics for the minimum labeling global cut problem**

Thiago Silva, Gilberto Sousa, Igor Barbosa, Nenad Mladenovic, Lucidio Cabral, Luiz Satoru and Daniel Aloise

12:00-14:00 (Lunch)

Preliminary Conference Programme

(Ouro Preto, 2-4 October 2017)

14:00-15:15 (Plenary Room)

14:00–14:25 **A hybrid VNS algorithm for solving the multi-level capacitated minimum spanning tree problem**

Jean Carlos Tibúrcio Campos, Alexandre Xavier Martins and Marcone Jamilson Freitas Souza

14:25–14:50 **HMS: a hybrid multi-start algorithm for solving binary linear problems**

Josiane Rezende, Marcone Souza, Vitor Coelho and Alexandre Xavier Martins

14:50–15:15 **A Multi-objective Variable Neighborhood Search algorithm for solving the Hybrid Flow Shop Problem**

Eduardo Camargo de Siqueira, Sergio Ricardo De Souza and Marcone Jamilson Freitas Souza

15:15-15:45 (Coffee Break)

15:45-16:45 (Plenary Room)

Plenary Talk - Prof. Nenad Mladenovic

Less is more approach with VNS

16:45-18:00 (Plenary Room)

16:45–17:10 **Variable Neighborhood Search applied to the Multi-way Number Partitioning Problem**

Alexandre Frias Faria, Sergio Ricardo de Souza and Carlos Alexandre Silva

17:10–17:35 **VND-based Local Search Operator for Equality Constraints Problem in PSO Algorithm**

Felipe Mota, Elizabeth Wanner, Eduardo Luz and Gladston Moreira

17:35–18:00 **The Application of VNS for Optimizing a Boolean Consistent Neural Network**

Dragović Ivana, Turajlić Nina, Mladenović Nenad, Petrović Bratislav

18:00 (Plenary Room)

Closing Session