Wednesday, July 10

9:00  Opening Ceremony

**Session 1** (Session chair: **prof. Jiří Pospíchal**, approx. 15 min/paper, inc. questions)

9:05-09:50  40+5 min  **Prof. René Lozi** (CNRS, Math laboratory, Université Côte d’Azur, France)

*Evacuation dynamics in the course of terrorist attacks*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>09:50</td>
<td>COMPARISON OF EVOLUTIONARY DEVELOPMENT OF CELLULAR AUTOMATA USING VARIOUS REPRESENTATIONS (ID19026)</td>
<td>Bidlo Michal</td>
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<tr>
<td>09:50</td>
<td>HYBRID SYMBOLIC REGRESSION WITH THE BISON SEEKER ALGORITHM (ID19058)</td>
<td>Merta Jan</td>
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<td>10:05</td>
<td>SPIRAL EXTRUSION DIE DESIGN USING MODIFIED DIFFERENTIAL EVOLUTION ALGORITHM (ID19063)</td>
<td>Pluhacek Michal, Hrdy Michal, Viktorin Adam, Kadavy Tomas, Senkerik Roman</td>
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</tbody>
</table>

09:50-10:35  **Paper IDs: 026, 058, 063**

10:35-10:50  **Coffee Break**

10:50-11:00  **Paper IDs: 052, 038, 044, 046**

11:00-11:30  **Lunch Break (not included)**

12:30  **Session 2** (Session chair: **prof. Ronald Hochreiter**, approx. 15min/paper)

12:30-13:15  45 min  **Pietro S. Oliveto, Ph.D.** (University of Sheffield, United Kingdom)

*How Theoretical Analyses Can Impact Practical Applications of Evolutionary Computation*

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<tbody>
<tr>
<td>13:15</td>
<td>SENSITIVITY ANALYSIS OF EVOLUTIONARY ALGORITHM FOR SOFTWARE REUSABILITY (ID19033)</td>
<td>Chhabra Jitender Kumar, Rathee Amit</td>
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<td>13:15</td>
<td>SIMULATION-BASED RAIL TRAFFIC OPTIMIZATIONS APPLYING MULTICRITERIAL EVALUATIONS OF VARIANTS (ID19007)</td>
<td>Kavicka Antonin, Bazant Michael, Divis Roman, Varga Michal</td>
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<td>13:15</td>
<td>HEURISTICS FOR WASTE COLLECTION ARC ROUTING PROBLEM (ID19036)</td>
<td>Vlastimír Nevrý, Radovan Šomplák, Pavel Popela</td>
</tr>
<tr>
<td>13:15</td>
<td>LOAD FREQUENCY CONTROL OF HVDC LINK INTERCONNECTED POWER SYSTEM USING GENETIC ALGORITHM (ID19034)</td>
<td>Chanana Saurabh, Kumar Saurabh</td>
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13:15-14:45  **Paper IDs: 033, 007, 036, 034**

14:15-14:30  **Coffee Break**
### Schedule & Program 2019

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<td>14:30-16:30</td>
<td><strong>Paper IDs: 005, 009, 022, 035, 004, 066, 049</strong>&lt;br&gt; MANY-OBJECTIVE OPTIMISATION FOR AN INTEGRATED SUPPLY CHAIN MANAGEMENT PROBLEM (ID19005) Turk Seda Özcan Ender John Robert&lt;br&gt; ANT COLONY OPTIMISATION FOR PERFORMING COMPUTATIONAL TASK IN CELLULAR AUTOMATA (ID19009) Bidlo Michal Korgo Jakub&lt;br&gt; MODELING CBR VALUE USING RF AND M5P TECHNIQUES (ID19022) Aggarwal Praveen Suthar Manju&lt;br&gt; PREDICTION OF COMRESSIVE STRENGTH USING SUPPORT VECTOR REGRESSION (ID19035) Vijay Pal Singh Goutham Sai&lt;br&gt; DOES LIFELONG LEARNING AFFECT MOBILE ROBOT EVOLUTION? (ID19053) Prabhu Shanker G R Kyberd Peter Melis Wim Wetherall Jodie&lt;br&gt; HOW TO BURN A NETWORK OR SPREAD ALARM (ID19004) Jirí Pospichal Huraj Ladislav Šimon Marek Dirgová Luptáková Iveta&lt;br&gt; TOWARDS REDUCING THE IMPACT OF LOCALISATION ERROR ON THE BEHAVIOUR OF A SWARM OF AUVS (ID19066) El-Mihoub Tarek Tholen Christoph Nolle Lars&lt;br&gt; AN ENSEMBLE-BASED MALWARE DETECTION MODEL USING MINIMUM FEATURE SET (ID19049) Amer Eslam Zelinka Ivan</td>
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<td>16:30-16:45</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>16:45-17:30</td>
<td><strong>Prof. Janez Brest</strong> (University of Maribor, Slovenia)&lt;br&gt; Real-Parameter Single Objective Optimization with Differential Evolution: Algorithms jSO and jDE100</td>
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<td>17:30</td>
<td><strong>Social - Welcome Reception</strong></td>
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Thursday, July 11

8:30  Session 3 (Session chair: dr. Pavel Popela, approx. 15 min/paper)
8:30–10:00  Paper IDs: 024, 051, 003, 023, 031, 015

Optimization of deposition parameters of a DLC layer using (RF)
PECVD technology (ID19024)
Prokes Tomas
Mouralova Katerina
Zahradnicek Radim
Bednar Josef
Kalivoda Milan

Improving aerofoil geometry part II: optimization (ID19051)
Muller Jan
Osmera Pavel

A survey on artificial intelligence in malware
as next–generation threats (ID19003)
Thanh Cong Truong

Choosing an optimal size range of the product "pipe clamp"
(ID19023)
Malakov Ivo
Zaharinov Velizar

Evaluation of permutation-based mutation operators on the
problem of automatic connection matching in closed-loop
control system (ID19031)
Mironovich Vladimir
Buzdalov Maxim
Vyatkin Valeriy

Modelling of complex systems by means of partial algebras
(ID19015)
Bila Jiri
Ricardo Rodriguez Jorge
Novak Martin

10:00–10:20  Coffee Break
10:20–11:00  35+5min  Jan Studnicka, MSc. – HUMUSOFT (MathWorks)
Optimization and Global Optimization using MATLAB

11:00–11:45  Paper IDs: 012, 014, 056

Eigenvector crossover in the efficient JSO algorithm (ID19012)
Bujok Petr
Polaková Radka

Evolving predictions for executive pay features in board
networks (ID19014)
Hauptman Ami
Benbasat Ami
Rosenboim Rosit

Unconventional methods in Voynich manuscript analysis
(ID19056)
Zelinka Ivan
Zmeskal Oldrich
Windsor Leah
Zhiqiang Cai

11:45–12:00  Coffee Break
12:00–12:45  40+5min  Prof. Juergen Branke (The University of Warwick, United Kingdom)
Learning to Optimize and Optimal Learning
12:45–13:50  Lunch Break (not included)

14:00  Session X (Chairs: Radek Matousek and Jakub Kudela, approx. 15 min/talk!)

The Workshop: rendezvous of participants 13:50
the workshop program will be specify at the registration
(Dinner included at 18:15, projector and audio equipment are provided)

22:30  returning from the workshop
# Schedule & Program 2019

## Friday, July 12

### 9:00 - 10:00

**Session 4** (Session chair: prof. Roman Šenkeřík, approx. 15 min/paper)

**Paper IDs:** 016, 010, 055, 029

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<tr>
<td>Predicting the spread of malware outbreaks using autoencoder based neutral networks (ID19016)</td>
<td>Gopika Bhardwaj, Rashi Yadav</td>
<td></td>
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<tr>
<td>Neuro-evolution of mobile robot controller (ID19010)</td>
<td>Sekaj Ivan, Hvozdík Milan, Cifersky Ladislav</td>
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<tr>
<td>Data aggregation in mobile wireless sensor networks represented as stationary edge-Markovian evolving graphs (ID19055)</td>
<td>Kenyeres Martin, Kenyeres Jozef</td>
<td></td>
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<tr>
<td>InterRC: An inter-resources collaboration heuristic for scheduling independent tasks on heterogeneous distributed environments (ID19029)</td>
<td>Khiat Abdelhamid, Tari Abdelkamel</td>
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### 10:00 - 10:50

**45+5 min Prof. Kenneth A. De Jong (George Mason University, United States)**

*High-Performance Evolutionary Algorithms*

### 10:50 - 11:05

**Coffee Break**

### 11:05 - 12:00

**Paper IDs:** 030, 050, 042, 019

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<tr>
<th>Title</th>
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<tr>
<td>Machine learning blunts the needle of advanced SQL injections (ID19030)</td>
<td>Volkova Marina, Chmelar Petr, Sobotka Lukas</td>
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<td>Efficient computation of fitness function for evolutionary clustering (ID19050)</td>
<td>Muravyov Sergey, Antipov Denis, Buzdalova Arina, Filchenkov Andrey</td>
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<tr>
<td>On performance of distributed system size estimation executed by average consensus weights (ID19042)</td>
<td>Kenyeres Martin, Kenyeres Jozef</td>
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<tr>
<td>Segmentation method overview for thermal images in MATLAB computational environment (ID19019)</td>
<td>Bostik Ondrej, Valach Sobeslav, Kolec Jan</td>
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### 12:00 - 12:50

**45+5 min Dr. Carlos A. Coello Coello (CINVESTAV-IPN, Mexico)**

*Where is the research on evolutionary multi-objective optimization heading to?*

### 12:50

**Closing Ceremony**