

# Conference Program

## Program

### Monday, February 1

|                                                                       |                                                                                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00 - 09:10                                                         | Opening                                                                                                                                             |
| Session 1<br>Chair: Péter Antal<br><a href="#">Scoring sheet</a>      |                                                                                                                                                     |
| 09:10 - 09:30                                                         | Tamás Nagy, Bence Bruncsics and Péter Antal<br>Bayesian Network Multimorbidity Models in COVID-19 Mortality                                         |
| 09:30 - 09:50                                                         | Bence Bruncsics<br>Computational modeling of multivalent protein binding kinetics                                                                   |
| 09:50 - 10:10                                                         | Péter Nagy and Ákos Jobbágy<br>Compensation of the major drawback of oscillometric blood pressure measurement                                       |
| 10:10 - 10:30                                                         | Lorant Tibor Csoke<br>Development of an optical surface profiling system based on chromatic-confocal microscopy                                     |
| 10:30 - 10:50                                                         | Break                                                                                                                                               |
| Session 2<br>Chair: Tamás Dabóczy<br><a href="#">Scoring sheet</a>    |                                                                                                                                                     |
| 10:50 - 11:10                                                         | Jan Decuyper (presentation only)<br>Decoupling techniques in black box nonlinear system identification                                              |
| 11:10 - 11:30                                                         | Csurcsia Péter Zoltán (presentation only)<br>Simplified Analysis for Multiple Input System: A Toolbox Talk Illustrated on F-16 Measurements         |
| 11:30 - 11:50                                                         | András Palkó and László Sujbert (presentation only)<br>Adaptive Fourier Analysis in the Case of Data Loss                                           |
| 11:50 - 13:00                                                         | Lunch break                                                                                                                                         |
| Session 3<br>Chair: Béla Pataki<br><a href="#">Scoring sheet</a>      |                                                                                                                                                     |
| 13:00 - 13:20                                                         | Áron Barcsa-Szabó, Balázs Várady, Rebeka Farkas, Vince Molnár and András Vörös<br>Towards Interactive Learning for Model-based Software Engineering |
| 13:20 - 13:40                                                         | Mihály Vetró and Gabor Hullam<br>Uncertainty approximation in neural networks using parameter-space proximity regularization                        |
| 13:40 - 14:00                                                         | Mihály Vetró and Gabor Hullam<br>Local and global causal discovery methods for observational data with discrete variables                           |
| 14:00 - 14:20                                                         | Levente Alekszejenkó and Tadeusz P. Dobrowiecki<br>Using Auction Mechanism for Assigning Parking Lots to Autonomous Vehicles                        |
| 14:20 - 14:40                                                         | Gabor Revy, Gabor Hullam and Daniel Hadhazi<br>Detection of facial microexpressions                                                                 |
| 14:40 - 15:00                                                         | Break                                                                                                                                               |
| Session 4<br>Chair: András Pataricza<br><a href="#">Scoring sheet</a> |                                                                                                                                                     |
| 15:00 - 15:20                                                         | Bence Graics (presentation only)<br>Mixed-semantics composition of statecharts for the component-based design of reactive systems                   |
| 15:20 - 15:40                                                         | Carlos Leandro Gomes Batista and Fátima Mattiello-Francisco<br>Modelling a Cubesat-Based Space Mission and its Operation                            |
| 15:40 - 16:00                                                         | András Földvári and András Pataricza<br>Qualitative reasoning assisted empirical system identification                                              |
| 16:00 - 16:20                                                         | János Csanád Csuvárszki, Bence Graics and András Vörös<br>Model-Driven Development of Heterogeneous Cyber-Physical Systems                          |
| 16:20 - 16:30                                                         | Closing words                                                                                                                                       |

### Tuesday, February 2

| Session 1<br>Chair: István Majzik<br><a href="#">Scoring sheet</a> |                                                                                                                                                  |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00 - 09:20                                                      | <i>Zsófia Ádám, Gyula Sallai and Ákos Hajdu (presentation only)</i><br>Gazer-Theta: An LLVM-based portfolio verifier with BMC and CEGAR analyses |
| 09:20 - 09:40                                                      | <i>Mirko Staderini and Andrea Bondavalli</i><br>Investigation of Static Analyzers Detection on Ethereum Smart Contracts                          |
| 09:40 - 10:00                                                      | <i>Kristóf Marussy (presentation only)</i><br>A specification language for consistent model generation based on partial models                   |
| 10:00 - 10:20                                                      | <i>Márton Elekes (presentation only)</i><br>A GraphBLAS solution to the SIGMOD 2014 Programming Contest using multi-source BFS                   |
| 10:20 - 10:30                                                      | <b>Closing words</b>                                                                                                                             |

Due to the pandemic conditions, the conference will be held online on the **Microsoft Teams** platform.

Teams link to Day 1: [Click here to join the meeting](#)

Teams link to Day 2: [Click here to join the meeting](#)