

INNOVATÍV INFORMATIKAI ÉS INFOKOMMUNIKÁCIÓS MEGOLDÁSOKAT MEGALAPOZÓ
TEMATIKUS KUTATÁSI EGYÜTTMŰKÖDÉSEK (3in) projekt

THEMATIC FUNDAMENTAL RESEARCH COLLABORATIONS GROUNDING INNOVATION IN
INFORMATICS AND INFOCOMMUNICATIONS (3in) project

Draft Agenda

Conference on Software Technology and Cyber Security (STCS 2019)

21-23 February 2019, Szombathely, Hungary

Venue: ELTE Informatikai Kar, Savaria Műszaki Intézet Károlyi, Gáspár tér 4, Szombathely, B008-as terem

Day 1 - 21 February 2019 (Thursday)

13:00-13:15	Registration
13:00-14:00	Lunch
14:00-14:05	Opening
14:05-15:20	Session I
14:05-14:30	Visualization of Jenkins Pipelines - <i>Ádám Révész and Norbert Pataki, ELTE</i>
14:30-14:55	Design and Implementation of a Dependable, Smart CPS Demonstrator - <i>András Pataricza, András Vörös, Zolt Mázló and Richárd Szabó, BME</i>
14:55-15:20	Detecting Uninitialized Variables in C++ with the Clang Static Analyzer - <i>Kristóf Umann and Zoltán Porkoláb, ELTE</i>
15:20-15:45	Coffee break
15:45-17:00	Session II
15:45-16:10	Towards Modularisation of C++ Software Systems - <i>Richárd Szalay and Zoltán Porkoláb, ELTE</i>
16:10-16:35	Using Data Distribution Service in critical cyber-physical systems - <i>András Földvári and András Pataricza, BME</i>
16:35-17:00	Symbolic Execution with Finite State Automata - <i>Endre Fülöp and Norbert Pataki, ELTE</i>
17:00-17:15	Coffee break
17:15-18:30	Session III
17:15-17:40	Instantiation of Java Generics - <i>Peter Soha and Norbert Pataki, ELTE</i>

17:40-18:05	Data analysis based dependability assurance in Cyber-Physical Systems - <i>Dezső Burján, László Gönczy and András Pataricza, BME</i>
18:05-18:30	A modern look at GRIN, an optimizing functional language back end - <i>Péter Podlovics and Csaba Hruska, ELTE</i>
18:30-18:45	Wrap-up
18:45-20:00	Dinner

Day 2 – 22 February 2019 (Friday)

9:00-10:15	Session IV
9:00- 9:20	Proving properties of P4 programs – <i>Máté Tejfel, ELTE</i>
9:20- 9 :40	Decomposition methods in secret sharing - <i>Máté Gyarmati and Péter Ligeti, ELTE</i>
9:40-10:00	Towards a DevOps Monitoring Dashboard Tool - <i>Márk Török, Endre Fülöp and Norbert Pataki, ELTE</i>
10:00-10:20	Analysis Differences Round Function SIMON-32 and SIMECK-32 with Randomness Test - <i>Sofu Risqi (tbc)</i>
10:20-10:45	Coffee break
10:45-12:05	Session V
10:45-11:05	Novel approaches for bug path reduction in static analysis - <i>Tibor Brunner and Zoltán Porkoláb, ELTE</i>
11:05-11:25	Real time incremental parsing in source code editors using LSP - <i>Máté Cserép, Anett Fekete and Mónika Mészáros, ELTE</i>
11:25-11:45	Reliability Aspects of Semi-automated Traffic Counting - <i>László Kundra and Péter Ekler, BME</i>
11:45-12:05	Proposal for Energy Efficient Wireless Body Area Network Using IoT - <i>Navdeep Singh Randhawa (tbc)</i>
12:05-13:00	Lunch
13:00-14:20	Session VI
13:00-13:20	Reducing Compile-time Dependencies with Refactoring - <i>Dávid Kis and Norbert Pataki, ELTE</i>
13:20-13:40	Challenges of a web-based multilayer modeling framework - <i>Dániel Palatinszky, BME</i>
13:40-14:00	Type Inference of Simple Recursive Functions in Scala - <i>Gergely Nagy, Gabor Olah and Zoltán Porkoláb, ELTE</i>
14:00-14:20	An Efficient Hybrid Encryption Algorithm Applied to Digital Grayscale Image - <i>Lamiche Chaabane, M'sila university, Algeria (tbc)</i>

14:20-14:40	Coffee break
14:40-16:00	Session VII
14:40-15:00	Adaptation of a Refactoring DSL for the Object-Oriented Paradigm - <i>Dávid J. Németh, Dániel Horpácsi and Máté Tejfel, ELTE</i>
15:00-15:20	Quotient inductive-inductive types - <i>Ambrus Kaposi and András Kovács, ELTE</i>
15:20-15:40	A framework for executable and verifiable refactoring - <i>Dániel Horpácsi, Judit Kőszegi and Dávid J. Németh, ELTE</i>
15:40-16:00	Improved Loop Execution Modeling in the Clang Static Analyzer - <i>Péter Szécsi, Gábor Horváth and Zoltán Porkoláb, ELTE</i>
16:00-16:30	Coffee break
16:30-17:45	Session VIII
16:30-16:55	Symbolic Execution of Multithreaded C++ Code - <i>Bence Babati and Norbert Pataki, ELTE</i>
16:55-17:20	Numeration systems in privacy-preserving protocols - <i>Péter Burcsi and Gabor Nagy, ELTE</i>
17:20-17:45	Towards Integrating Formal Verification in the P4 Development Life Cycle - <i>Dániel Lukács, Gergely Pongrácz and Máté Tejfel, ELTE</i>
17:45-18:00	Wrap-up
18:00-19:00	Dinner

Day 3 – 23 February 2019 (Saturday)

9:00-10:15	Session IX
9:00- 9:20	Live Migration and Orchestration of Containerized Applications on Fog Computing and 5G - <i>Anna Reale, Péter Kiss, Melinda Tóth and Zoltán Horváth, ELTE</i>
9:20- 9:40	Towards an energy efficient computation in Erlang - <i>Áron Attila Mészáros, Gergely Nagy, István Bozó and Melinda Tóth, ELTE</i>
9:40-10:00	Differential Testing of Static Analyzers - <i>Gábor Horváth, Péter Szécsi and Réka Kovács, ELTE</i>
10:00-10:20	Comparing multi-level modelling and the classic object-oriented method - <i>Sándor Bácsi, Gergely Mezei, Zoltán Theisz, Ferenc Somogyi and Dániel Urbán, BME</i>
10:20-10:45	Coffee break



10:45-12:15	Session X
10:45-11:05	Physically based graph layout generation using higher order methods - <i>Mátyás Komáromi, István Bozó and Melinda Tóth, ELTE</i>
11:05-11:30	Guidelines for performing software experiments in 5G Edge Computing - <i>Charles Ferrari Zoltán Gera and Gábor Fábán, ELTE</i>
11:30-11:55	Domain-specific code generation for solving systems of small PDEs - <i>István Reguly and Gábor Dániel Balogh, PPKE</i>
11:55-12:15	A multi-party set intersection method - <i>Péter Burcsi and Attila Réti, ELTE</i>
12:15-12:30	Closing ceremony
13:00-14:00	Lunch (Garda Hotel)

Megjegyzés: A rendezvényen képfelvétel készül projektdokumentálási céllal, illetve disszeminációs célokkal a projekt nyilvánosságra is hozhatja és megőrizheti a felvételeket elektronikusan vagy nyomtatott formában. A felvételek készítése előtt ezt szóban, mindenki számára jelezzük, így aki nem kíván szerepelni a képeken, a felvételen kitakarhatja magát.

Note: Photographs will be taken during the event for project documentation purposes, as well as for dissemination. The project might publish the photographs publicly and store them in electronic or printed form. The photo recordings will be signalled beforehand to all participants, as such if you do not wish to be photographed, please indicate it.

SZÉCHENYI 2020



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BEFEKTETÉS A JÖVŐBE