

# Detailed program

Monday, June 27

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08:00	<b>Registration</b>
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08:30	<b>Opening</b>
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Session 1	<b>Testing</b>
08:50	Ferenc Horváth: <i>Eliminating code coverage differences from large-scale programs</i>
09:10	István Kádár: <i>The Optimization of a Symbolic Execution Engine for Detecting Runtime Errors</i>
09:30	Gábor Márton, Zoltán Porkoláb: <i>Unit Testing and Friends in C++</i>
09:50	Break

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Session 2	<b>Mining</b>
10:00	Cristian Babau, Marius Marcu, Mircea Tihu, Daniel Telbis and Vladimir Cretu: <i>Real Time Road Traffic Characterization Using Mobile Crowdsourcing</i>
10:20	János Baumgartner, Zoltán Süle, János Abonyi: <i>Cox regression based process optimization</i>
10:40	Break

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Session 3	<b>Machine Learning</b>
11:00	Laura Horváth, Krisztián Dániel Pomázi, Luca Szegletes, Bertalan Forstner: <i>Multiple Intelligence Learning</i>
11:20	Judit Tamás, Zsolt Tóth: <i>Classification based Symbolic Indoor Positioning over the Miskolc IIS Dataset</i>
11:40	Dénes Bán: <i>The Connection of Antipatterns and Maintainability in Firefox</i>
12:00	Aleksandar Pejic: <i>Detecting Similarities in Process Data generated with Computer-based Assessment Systems</i>
12:20	László Gazdi, Dorottya Bodolai, Bertalan Forstner, Luca Szegletes: <i>Supervising Adaptive Educational Games</i>

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12:40	<b>Lunch</b>
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14:00	<b>Plenary Talk</b> Dániel Marx: <i>The Optimality Program in Parameterized Algorithms</i>
14:50	Break

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Session 4	<b>Medical Solutions</b>
15:00	Ábel Garai, István Péntek: <i>Common Open Telemedicine Hub and Interface Standard Recommendation</i>
15:20	Zsolt Vassy, István Vassányi, István Kósa: <i>Stable angina clinical pathway correlation clustering</i>
15:40	Melinda Katona, László G. Nyúl: <i>Quantitative Assessment of Retinal Layer Distortions and Subretinal Fluid in SD-OCT Images</i>
16:00	Rebaz Ahmed Hama Karim, István Vassányi, István Kósa: <i>Long-acting insulin management for blood glucose prediction model</i>
16:20	Break

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Session 5	<b>Program Analysis</b>
16:40	Zsolt Parragi, Zoltán Porkoláb: <i>Typegrind: Type Preserving Heap Profiler for C++</i>
17:00	Péter Gyimesi: <i>An Automatic Way to Calculate Software Process Metrics of GitHub Projects With the Aid of Graph Databases</i>
17:20	Bence Babati, Norbert Pataki, Zoltán Porkoláb: <i>Analysis of Include Dependencies in C++ Source Code</i>
17:40	Biswajeeban Mishra: <i>Improving OpenStack Services with Source Code Optimizations</i>
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18:00	Free program
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19:00	<b>Reception</b> at the Rector's Building
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**Tuesday, June 28**

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Session 6	<b>Programming Languages</b>
08:30	Tibor Brunner, Norbert Pataki, Zoltán Porkoláb: <i>Finding semantical differences between C++ standard versions</i>
09:50	Áron Baráth, Zoltán Porkoláb: <i>Checking binary compatibility for modern programming language</i>
09:10	Péter Gál, Csaba Bátor: <i>Bringing a Non-object Oriented Language Closer to the Object Oriented World: A Case Study for A+.NET</i>
09:30	Break
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Session 7	<b>Image Processing I.</b>
09:40	Balázs Nagy: <i>Skyline extraction by artificial neural networks for orientation in mountainous environment</i>
10:00	Dávid Papp, Gábor Szűcs: <i>Active Learning using Distribution Analysis for Image Classification</i>
10:20	Ádám Budai, Kristóf Csorba: <i>RJMCMC Optimization of marble thin section image segmentations</i>
10:40	Break
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11:00	<b>Plenary Talk</b> László Pyber: <i>How to avoid the Classification Theorem of Finite Simple Groups in Asymptotic Group Theory</i>
11:50	Break
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Session 8	<b>Model Matching</b>
12:00	Gábor Szőke: <i>Finding Matching Source Code Elements in an AST Using Position Information</i>
12:20	Ferenc Attila Somogyi: <i>On the Efficiency of Text-based Comparison and Merging of Software Models</i>
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12:40	<b>Lunch</b>
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Session 9	<b>Image Processing II.</b>
14:00	György Kalmár, László G. Nyúl: <i>Image processing based automatic pupillometry on infrared videos</i>
14:20	Krisztián Koos, Begüm Peksel, Lóránd Kelemen: <i>Height Measurement of Cells Using DIC Microscopy</i>
14:40	Levente Lipták, László Kundra, Kristóf Csorba: <i>Robust multiple hypothesis based enumeration in complex traffic scenarios</i>
15:00	Csaba Molnár, József Molnár: <i>Multi-layer phase field model for selective object extraction</i>
15:20	Break
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Session 10	<b>Algorithm</b>
15:40	Katalin Friedl, László Kabódi: <i>Storing the quantum Fourier operator in the QuIDD data structure</i>
16:00	Bence Bogdándy, Zsolt Tóth: <i>Comparison of WiFi RSSI Filtering Methods</i>
16:20	Lajos Györfy, András London, Géza Makay: <i>The structure of pairing strategies for \$-in-a-row type games</i>
16:40	Gábor Fábrián: <i>Physical simulation based technique for determining continuous maps between meshes</i>
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17:00	Free program
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17:15	<b>Social Program</b> Visit the Informatorium at Szent-Györgyi Albert Agóra
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19:00	<b>Gala Dinner</b> at the Rector's Building

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## Wednesday, June 29

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Session 11	<b>Cloud/IoT</b>
08:30	Tamás Pflanzner, Attila Kertész: <i>Taxonomy and Survey of IoT Cloud Use Cases</i>
08:50	Márton Búr, Dániel Varró: <i>Towards hierarchical and distributed run-time monitors from high-level query languages</i>
09:10	Attila Selmecci, Tamás Orosz: <i>Trends and paradigm change in ERP datacenter management</i>
09:30	Break
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Session 12	<b>Networking</b>
09:40	Teréz Nemes, Ákos Dávid, Zoltán Süle: <i>Proposing a decision-support system to maximize the robustness of computer network topologies</i>
10:00	Máté Tömösközi: <i>Regression Model Building and Efficiency Prediction of Header Compression Implementations for VoIP</i>
10:20	Patrik János Braun, Péter Ekler: <i>Improving QoS in web-based distributed streaming services with applied network coding</i>
10:40	Break
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11:00	<b>Plenary Talk</b> Dániel Varró: <i>Models and Queries for Smart and Safe Cyber-physical Systems</i>
11:50	Break
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Session 13	<b>Models</b>
12:00	Tamás Fekete, Gergely Mezei: <i>Architectural challenges in creating a high-performant model-transformation engine</i>
12:20	Oszkár Semeráth, Dániel Varró: <i>Validation of Well-formedness constraints on Uncertain Model</i>
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12:40	<b>Lunch</b>
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Session 14	<b>Optimization</b>
14:00	Abigél Mester, Balázs Bánhelyi: <i>Revision of local search methods in the GLOBAL optimization algorithm</i>
14:20	Dániel Zombori, Balázs Bánhelyi: <i>Parallel implementation of a modular, population based global optimizer package</i>
14:40	Zsolt Bagóczki, Balázs Bánhelyi: <i>A parallelized interval arithmetics based reliable computing method on GPU</i>
15:00	László Hajdu, Miklós Krész, László Tóth: <i>Maximization Problems for the Independent Cascade Model</i>
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15:20	<b>Closing</b>
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