

Preliminary Program

Overview

Monday, July 1

- 10:00 - 14:00 Registration
- 14:00 - 14:15 Opening
- 14:15 - 15:00 Plenary talk
- 15:00 - 15:15 Break
- 15:15 - 16:45 Talks in 2 streams (3x30 minutes)
- 16:45 - 17:00 Break
- 17:00 - 18:00 Talks in 2 streams (2x30 minutes)
- 18:15 - 19:30 Reception at the Town Hall

Tuesday, July 2

- 08:30 - 10:00 Talks in 2 streams (3x30 minutes)
- 10:00 - 10:15 Break
- 10:15 - 11:00 Plenary talk
- 11:00 - 11:15 Break
- 11:15 - 12:45 Talks in 2 streams (3x30 minutes)
- 12:45 - 14:00 Lunch
- 14:00 - 15:30 Talks in 2 streams (3x30 minutes)
- 15:30 - 15:45 Break
- 15:45 - 17:15 Talks in 2 streams (3x30 minutes)
- 18:00 - 19:30 Supper

Wednesday, July 3

- 08:30 - 09:30 Talks in 2 streams (2x30 minutes)
- 09:30 - 09:45 Break
- 09:45 - 10:30 Plenary talk
- 10:30 - 10:45 Break
- 10:45 - 12:45 Talks in 2 streams (4x30 minutes)
- 12:45 - 14:00 Lunch
- 14:00 - 15:30 Talks in 2 streams (3x30 minutes)
- 15:30 - 15:45 Break
- 15:45 - 17:15 Talks in 2 streams (3x30 minutes)
- 18:00 - 21:00 Excursion and supper

Thursday, July 4

- 08:30 - 10:00 Talks in 2 streams (3x30 minutes)
- 10:00 - 10:15 Break
- 10:15 - 11:00 Plenary talk
- 11:00 - 11:15 Break
- 11:15 - 12:45 Talks in 2 streams (3x30 minutes)
- 12:45 - 14:00 Lunch
- 14:00 - 15:30 Talks in 2 streams (3x30 minutes)
- 15:30 - 15:45 Break
- 15:45 - 17:45 Talks in 2 streams (4x30 minutes)
- 18:00 - 18:30 Closing session, announcing the Best Talk Awards
- 19:00 - 20:30 Supper

Friday, July 5

- 8:30 Departure

Detailed program

Monday, July 1

10:00	Registration	
14:00	Opening session	
14:15	Plenary talk Gábor Herman (New York): <i>Recovery of Label Distributions</i>	
15:00	Break	
Sections	Networks	Operations Research
15:15	József Valyon: <i>Reducing the complexity and controlling the network size of LS-SVM solutions, by solving an overdetermined set of equations</i>	Péter Kárász: <i>On a Class of Cyclic-Waiting Queuing Systems with Refusals</i>
15:45	Alexandrosz Burulitisz, Róbert Maka, Balázs Rózsás, Sándor Szabó, and Sándor Imre: <i>On the Performance of IP Micro Mobility Protocols</i>	János Balogh and Tamás Rapcsák: <i>Test functions and to test functions: a framework for global optimization on Stiefel manifolds</i>
16:15	Antal Fazakas and Katalin Tarnay: <i>Inline Expressions in Protocol Test Specification</i>	Mihály Csaba Markót, José Hernández and Leocadio Casado: <i>New Interval Methods for Constrained Global Optimization: Solving 'Circle Packing' Problems in a Reliable Way</i>
16:45	Break	
Sections	Software engineering	Image processing
17:00	Ákos Kiss, Judit Jász, and Gábor Lehotai: <i>Static Slicing of Binary Executables</i>	Gergely Kovásznai and Krisztián Veréb: <i>Mathematical Morphology in Image Processing by SLD Resolution</i>
17:30	Gábor Kusper: <i>Investigation of Binary Representations of SAT especially 2-Literal Representation</i>	György Koch and József Dombi: <i>1-dimensional clustering with aggregated functions</i>
18:15	Reception at the Town Hall	

Tuesday, July 2

Sections	Databases	Artificial intelligence
08:30	István Szépkúti: <i>Difference Sequence Compression of Multidimensional Databases</i>	Tim Fuehner and Gabriella Kókai: <i>Incorporating Linkage Learning into the GeLog Framework</i>
09:00	Mohammed Alhaddad: <i>Utilising Networked Workstations to Accelerate Database Queries</i>	Zoltán Tóth: <i>A Graphical User Interface for Evolutionary Algorithms</i>
09:30	István Katsányi: <i>On Implementing Relational Databases on DNA strands</i>	Róbert Ványi: <i>Structural Description of Binary Images: An Evolutionary Approach</i>
10:00	Break	
10:15	Plenary talk János Pintér (Halifax): <i>Global / Nonlinear Optimization in Modeling Environments</i>	
11:00	Break	
Sections	Optimization	Image processing
11:15	Péter Gábor Szabó: <i>Optimal substructures in optimal and candidate circle packings</i>	Attila Tanács, Kálmán Palágyi, and Attila Kuba: <i>A fully automatic medical image registration algorithm based on mutual information</i>
11:45	Boglárka Tóth: <i>Empirical investigation of the convergence of inclusion functions</i>	Krisztián Veréb: <i>Complex Pattern Matching Strategies in Image Database: The cut-and-or-not Approach</i>
12:15	Tamás Vinkó: <i>Branch and Prune Techniques in Multidimensional Interval Global Optimization Algorithms</i>	Péter Balázs, Attila Kuba, and Emese Balogh: <i>A Fast Algorithm for Reconstructing hv-convex 8-connected but not 4-connected Discrete Sets</i>
12:45	Lunch	

(see next page for the rest of the **Tuesday** program)

Tuesday, July 2 (continued)

Sections	Networks	Artificial intelligence
14:00	Márta Fidrich, Vilmos Bilicki, Zoltán Sógor, and Gábor Sey: <i>SIP compression</i>	Balázs Szörényi: <i>ID3 is not an Occam algorithm</i>
14:30	Timót Hidvégi: <i>Optimized emulated digital CNN-UM (CASTLE) Architectures</i>	Gábor Gosztolya, András Kocsor, László Tóth, and László Felföldi: <i>Various Robust Search Methods in a Hungarian Speech Recognition System</i>
15:00	Endre Horváth: <i>Bluetooth Modelling, Validation and Test Suite Generation</i>	Zoltán Nagy: <i>Fast and Efficient Multi-Layer CNN-UM Emulator Using FPGA</i>
15:30	Break	
Sections	Programming	Numerical algorithms
15:45	Raluca Oana Scarlatescu: <i>Programming by steps</i>	Tibor Laczó and László Sragner: <i>Model Order Estimations for Noisy Black-box Identifications</i>
16:15	Dániel Szegő: <i>Automatic Wizard Generation</i>	Gábor Balázs, Béla Drozdik, and András Jókuthy: <i>New Methods in Tele-cardiology</i>
16:45	Tamás Kasza, Sarolta Dibuz, Tibor Szabó, and Gyula Csopaki: <i>Applicability of UML in Protocol and Test Development</i>	Kristóf Haraszti: <i>Noise Reduction on ECG-signals with the Help of Synchronized Averaging</i>
18:00	Supper	

Wednesday, July 3

Sections	Networks	Software engineering
08:30	János Horváth Cz. and Sándor Imre: <i>Optimal Platform to Develop Features for Ad Hoc Extension of 4G Mobile Networks</i>	Róbert Lovas and Péter Kacsuk: <i>Enhanced Macrostep-based Debugging Methodology for Parallel Programs</i>
09:00	József Hosszú: <i>Test Architecture for Distributed Network Management Software</i>	Tamás Kókai and Tibor Csiszár: <i>Role oriented software development in practice</i>
09:30	Break	
09:45	Plenary talk Zoltán Fülöp (Szeged): <i>Tree Transducers</i>	
10:30	Break	
Sections	Automata	Algorithms
10:45	Matti Rönkä: <i>On One-Pass Term Rewriting and Tree Recognizers with Comparisons Between Brothers</i>	Krisztián Keszthelyi: <i>The Analysis of the Economy of the Milk Processing Companies in 2000 with Multivariate Methods</i>
11:15	Lajos Kollár: <i>Application of Tree Automata in The Validation of XML Documents</i>	Balázs Polgár and Endre Selényi: <i>Probabilistic Diagnostics with P-Graphs</i>
11:45	Miklós Krész and Miklós Bartha: <i>Soliton graphs and graph-expressions</i>	Gabriel Raicu: <i>Distributed Expert System in Port Area</i>
12:15		Richárd Szabó: <i>Navigation of simulated mobile robots in the Webots environment</i>
12:45	Lunch	

(see next page for the rest of the **Wednesday** program)

Wednesday, July 3 (continued)

Sections	Protocols	Programming
14:00	Sándor Imre, Róbert Schulcz, and Csaba Csegedi: <i>IPv6 Macromobility Simulation Using OMNeT++ Environment</i>	Dániel Varró: <i>A Pattern Based Constraint Language for Metamodels</i>
14:30	Anna Harmathné Medve: <i>Relations of Testability and Quality Parameters of SDL Implementation at the Early Stage of Protocol Development Life Cycle</i>	Dávid Hanák: <i>Implementing Global Constraints as Structured Networks of Elementary Constraints</i>
15:00		Tibor Csáki and Krisztián Veréb: <i>The Jodie Programming Language</i>
15:30	Break	
Sections	Artificial intelligence	Image processing
15:45	Tamás Szabó: <i>CNN Based Early Detection of Acute Ischemic Lesion</i>	Marianna Dudásné Nagy and Attila Kuba: <i>Reconstruction of Factor Images of Dynamic SPECT by Discrete Tomography</i>
16:15	Ákos Zsiros: <i>Application of Learning Methods in MCDA models: Overview and Experimental Comparison</i>	Péter Kozma: <i>Colour Space Transformation, Colour Correction and Exact Colour Reproduction on FALCON Architecture</i>
16:45	László Felföldi, András Kocsor, and László Tóth: <i>Classifier Combination in Speech Recognition</i>	Attila Licsár and Tamás Szirányi: <i>Hand Gesture-based Film Restoration</i>
18:00	Excursion and supper	

Thursday, July 4

Sections	Networks	Discrete algorithms
08:30	Attila Rajmund Nohl and Gergely Molnár: <i>On the convergence of OSPF</i>	Csilla Endrődi: <i>Efficiency Analysis and Comparison of Public Key Algorithms</i>
09:00	István Pataki and András Gulyás: <i>End-to-end QoS Management Issues Over DiffServ Networks</i>	Paula Steinby: <i>Content Protection: Combining Watermarking with Encryption</i>
09:30	János Zoltán Szabó: <i>Performance Testing Architectures for Communication Protocols</i>	Péter Orvos: <i>Digital Signatures with Signer's Biometric Authentication</i>
10:00	Break	
10:15	Plenary talk Csaba Fábián (Bukarest): <i>Evolutionary and Parallel Solving Methods for Cutting Stock Problems</i>	
11:00	Break	
Sections	Web solutions	Artificial intelligence
11:15	Andor Abonyi-Tóth, Dénes Eglesz, and Orchidea Edith Kiss: <i>Examining Private and Professional Websites Regarding Technique and Usability</i>	Tamás Gergely: <i>Measures for Decision Tree Building</i>
11:45	Richárd Jónás: <i>Building Web Applications via Web</i>	András Hócz, Gyöngyi Szilágyi, and Tibor Gyimóthy: <i>LL Frame System of Learning Methods</i>
12:15	László Zömbik: <i>Traffic analysis of HTTPS</i>	András Salamon: <i>Rewarding Misclassifications in Oblique Decision Tree Learning</i>
12:45	Lunch	

(see next page for the rest of the **Thursday** program)

Thursday, July 4 (continued)

Sections	Networks	Artificial intelligence
14:00	<p>Richárd Jónás, Lajos Kollár, and Krisztián Veréb: <i>A Communication System Based on Web Service and its Application in Image Processing</i></p>	<p>István Juhos, Gyöngyi Szilágyi, János Csirik, György Szarvas, Tamás Szeles, and Attila Kocsis : <i>Time Series Prediction using Artificial Intelligence Methods</i></p>
14:30	<p>Dániel Petri: <i>Towards Verifyable Design Patterns</i></p>	<p>Kornél Kovács and András Kocsor: <i>Various Hyperplane Classifier Using Kernel Feature Spaces</i></p>
15:00		<p>Szilvia Gyapay: <i>Operation Research Methods in Petri Net Based Analysis of IT Systems</i></p>
15:30	Break	
Sections	Programming	Modelling
15:45	<p>Dávid Hanák and Tamás Szeredi: <i>FDBG, a CLP(FD) Debugger for SIC-Stus Prolog</i></p>	<p>Tibor Csiszár and Tamás Kókai: <i>The basics of roleoriented modelling</i></p>
16:15	<p>Ferenc Havasi and Miklós Kálmán: <i>XML Semantics</i></p>	<p>Nóra Székely: <i>Simplifying the Model of a Complex Industrial Process Using Input Variable Selection</i></p>
16:45	<p>Viktória Zsók, Zoltán Horváth, and Máté Tejfel: <i>Parallel Functional Programming on Cluster</i></p>	<p>Orsolya Dobán: <i>Software Development Effort Estimation and Process Optimization</i></p>
17:15	<p>Dan Laurentiu Jisa: <i>Comparative Study of Four UML Based CASE Tools</i></p>	<p>László Ruskó, Attila Kuba, and Emese Balogh: <i>VRML Based Visualization of Discrete Tomography Pictures</i></p>
18:00	Closing session, announcing the Best Talk Awards	
19:00	Supper	