

# Preliminary Program

## Overview

### Thursday, July 20

- 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

### Friday, July 21

- 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

## **Saturday, July 22**

- 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 - 20:00 Excursion and supper

## **Sunday, July 23**

- 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 - 16:00 Break
- 16:00 - 16:30 Closing session, announcing the Best Talk Awards
- 18:00 - 20:30 Supper

## **Monday, July 24**

- 8:30 Departure

## Detailed program

Thursday, July 20

10:00	Registration	
14:00	Opening session	
14:15	<b>Plenary talk</b> János Csirik <i>Average Case Analysis of Algorithms</i>	
15:00	Break	
Sections	<b>Networks</b>	<b>Discrete mathematics</b>
15:15	Mihály Bohus <i>Analysing Mobility Options of Data Communication</i>	Emese Balogh <i>Generating and Reconstructing hv-convex 2-dimensional Discrete Sets</i>
15:45	Gábor Gesztesi <i>Optimizing Object Location in Mobile Distributed Object Systems</i>	László Szûcs, G. Pécsi <i>Parallel verification and enumeration of tournaments</i>
16:15	Zalán Heszberger, József Bíró, János Zátanyi <i>Efficient CAC Algorithms Based on the Tail Distribution of Aggregate Traffic</i>	Tamás Herendi <i>Uniform distribution of linear recurrence sequences in residue class systems</i>
16:45	Break	
Sections	<b>Code generating, software engineering</b>	<b>Image processing</b>
17:00	Péter Felvégi <i>Low complexity parametrized codes for LZ77 compression</i>	Gábor Csornai, I. Fekete, I. László <i>Segmentation methods based on spatial characteristics of multispectral images</i>
17:30	Ákos Frohner, Zoltán Porkoláb, László Varga <i>Code Generation from UML models</i>	Marianna Dudásné Nagy, E. Máté, B. Kári <i>Generation of Normal Control Data for the Evaluation of Myocardial Perfusion Studies</i>
18:15	Reception at the Town Hall	

**Friday, July 21**

Sections	<b>Formal language</b>	<b>Artificial intelligence</b>
08:30	Szilvia Zvada, T. Gyimóthy <i>Using Decision Trees to Infer Semantic Functions of Attribute Grammars</i>	István Harmati, Bálint Kiss <i>Motion planning algorithms for stratified kinematic systems with application to the hexapod robot</i>
09:00	Barnabás Gögös <i>Automatic Test Purpose Generation based on Formal Grammar Representation of Communication Protocols</i>	Gusztáv Jánvári <i>Strategy Selection in the Resolution Theory</i>
09:30	István Katsányi <i>Sets of numbers in different number systems and the Chomsky hierarchy</i>	Márk Jelasity, Boglárka Tóth, Tamás Vinkó <i>Measuring hardness of problems in evolutionary computations using Markov-processes</i>
10:00	Break	
10:15	<b>Plenary talk</b> György Maróti <i>Automata Theory with Maple</i>	
11:00	Break	
Sections	<b>Information system</b>	<b>Image processing</b>
11:15	Hung T. Tran, Tien V. Do <i>Generalised Subspace based Method for Steady State Analysis of QBD-M Processes</i>	Kálmán Palágyi <i>A 3D Directional Shrinking Algorithm</i>
11:45	Zsigmond Pap <i>Static Specification Completeness Checking of UML State Machines</i>	Tran Minh Son, Gy. Marosi, A. Gschwindt <i>SIRDS based autostereoscopic pictures</i>
12:15	Lóránt Farkas and Lajos Nagy <i>Wireless Application Protocol Performance Testing</i>	Attila Tanács <i>Investigation of Point-Based Image Registration Methods Assuming Rigid-Body and Linear Motions</i>
12:45	Lunch	

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

Friday, July 21 (continued)

Sections	Optimization	Automata
14:00	János Balogh, T. Csendes, R. P. Stateva <i>A New Global Optimization Technique for Chemical Phase Equilibrium Problems</i>	Miklós Bartha, Miklós Krész <i>On deterministic soliton automata</i>
14:30	András Erik Csallner, D. Ratz, R. Klatter <i>The Effects of the Boxing Method for Interval Subdivision Algorithm</i>	Jelena Kovacevic <i>Quasi-Orders on Automata</i>
15:00	M. Cs. Markót, P. G. Szabó, B. Tóth, T. Vinkó <i>Verification solutions of packing circle problems</i>	Zarko Popovic <i>Congruences on Finite Automata</i>
15:30	Break	
Sections	Artificial intelligence	Databases, networks
15:45	Radmila Jovanovic, Ognjen Radovic <i>Predicting Exchange Rate by Neural Networks</i>	László Keresztfalvi <i>Mobile technologies and future health-care</i>
16:15	György Koch, József Dombi <i>New Clustering Procedures in Respect of Practical Realization</i>	István Szépkúti <i>On the Scalability of Multidimensional Databases</i>
16:45	András Kocsor, László Tóth, András Kuba <i>Phoneme Classification Using Kernel Principal Component Analysis</i>	Károly Farkas, Zoltán Balogh, Henrik Villför <i>IP Traffic Engineering over OMP technique</i>
18:00	Supper	

Sections	<b>Discrete algorithms</b>	<b>Functional programming</b>
08:30	László Aszalós <i>A Method to Solve the Puzzles of Knights and Knaves</i>	
09:00	Sándor Vályi <i>About the axiomatization of first- and second-order spatio-temporal logics</i>	Zoltán Horváth, V. Zsóka, P. Serrarens, R. Plasmeijer <i>Parallel Functional Reactive Skeletons in Concurrent Clean</i>
09:30	Break	
09:45	<b>Plenary talk</b> Tamás Rapcsák <i>Minimization on Stiefel Manifolds</i>	
10:30	Break	
Sections	<b>Numerical algorithms</b>	<b>Logic programming, picture processing</b>
10:45	Ester Martín Garzón, I. García <i>Parallel Implementation of the Large Sparse and Symmetric Eigenproblem</i>	László Harmath, Gy. Szilágyi, T. Gyimóthy <i>Debug Slicing of Logic Programs</i>
11:15	Eva M. Ortigosa, L.F. Romero, J.I. Ramos <i>Parallel simulation of spiral waves in reacting and diffusing media</i>	Zsolt Németh <i>Definition of a Parallel Execution Model with Abstract State Machines</i>
11:45	J.M. Gonzalez-Linares, P.M. Ortigosa, N. Guil and I. García <i>Parallelization of an algorithm for non rigid objects detection with stochastic global optimization</i>	Csongor Halmai, Balázs Erdőhelyi, Krisztián Ollé, Attila Kuba <i>New Results in 3D Surface Reduction</i>
12:15		László G. Nyúl and Jayaram K. Udupa <i>Standardizing the MR Image Intensity and Its Applications</i>
12:45	Lunch	
14:00	Excursion and supper	

Sunday, July 23

Sections	Artificial intelligence, fuzzy	Software engineering
08:30	Levente Sára <i>Dynamic Simulations</i>	András Dezső, Vince Bárány <i>State Space Transformation - A Specification Language and a Program Generator</i>
09:00	Ákos Zsiros <i>Learning Decision Trees in Continuous Space</i>	László Gulyás <i>The History of Software Localization</i>
09:30	Attila Gyenesei <i>A Fuzzy Approach for Mining Interesting Quantitative Association Rules</i>	Zoltán Hornák, Endre Selényi <i>Effective Virus Scanning Algorithms</i>
10:00	Break	
10:15	<b>Plenary talk</b> Katalin Tarnay <i>Formal Methods in Protocol Engineering</i>	
11:00	Break	
Sections	Java, conformance testing	Optimization
11:15	Zoran Putnik, M. Grabovac <i>Extension of Java with Turtle Graphics</i>	L.G. Casado, J.A. Martínez, I. García, T. Csendes <i>Adaptive Multisection in Derivative Free Interval Methods for Global Optimization</i>
11:45	Attila Ulbert and Markus Hof <i>Time Independent Invocation in Java CMS</i>	Csanád Imreh <i>On a two class on-line classification problem</i>
12:15	Antal Fazakas <i>Auto Case Test Selection from WAP Test Suites</i>	Péter Gábor Szabó, B. Tóth, T. Vinkó <i>Optimal disk packings in the square</i>
12:45	Lunch	

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

**Sunday, July 23** (continued)

Sections	Protocols	Formal grammar, optimization
14:00	József Hosszú <i>Discrete Simulation of Distributed Systems - Performance Evaluation of a Notification Channel Federation</i>	Csaba V. Rotter <i>Formal Grammars in Conformance Testing</i>
14:30	Endre Horváth, Axel Manthey <i>GPRS Function Test using TTCN</i>	J. A. Martínez, L. G. Casado, I. García, Ya. D. Sergeev <i>Search space reduction criterion based on derivatives in Global Optimization algorithms</i>
15:00	Krisztián Kiss <i>SIP or H.323: Which Call Control Protocol is More Suitable for the 3G UMTS All-IP Network?</i>	G. Somlai, L. Sogor, L. Martonossy, M. Fidrich, G. Dikan, T. Tarjanyi, P. Hendlein and M. Bohus <i>Test of inter-working and translation mechanisms between IPv4 and IPv6</i>
15:30	Break	
16:00	Closing session, announcing the Best Talk Awards	
18:00	Supper	

**Monday, July 24**

- Departure