

Preliminary Program

Overview

Thursday, July 1

- 8:00 - 10:00 Registration
- 10:00 - 10:15 Opening
- 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)
- 18:15 Reception at the Town Hall

Friday, 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 - 17:45 Talks in 2 streams (4x30 minutes)
- 18:15 Supper

Saturday, July 3

- 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 - 16:00 Talks in 2 streams (4x30 minutes)
- 16:00 - 16:15 Break
- 16:15 - 17:45 Talks in 2 streams (3x30 minutes)
- 17:45 Excursion, supper

Sunday, 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 - 17:15 Talks in 2 streams (3x30 minutes)
- 18:00 Closing session, awards
- 19:00 Supper

Detailed program

Thursday, July 1

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| 8:00 | Registration | |
| 10:00 | Opening session | |
| 10:15 | Plenary talk Arnold Neumaier: <i>Global optimization and constraint satisfaction</i> | |
| 11:00 | Break | |
| Sections | Logic, Fuzzy Logic | Image Processing |
| 11:15 | Gergely Kovásznai: <i>Unification for Effective and Finite Semantic Tableaux in First-order Logic: the SOFIA Prover</i> | Antal Nagy and Attila Kuba: <i>Reconstruction of 2D Binary Objects from a Few Fan-Beam Projections</i> |
| 11:45 | Zsolt Gera and József Dombi: <i>The analytical approximation of the nilpotent operators and its applications</i> | Lajos Rodek, Zoltán Kiss and Attila Kuba: <i>Reconstruction of 3D Objects Containing Spheres and Cylinders from a Few Projections</i> |
| 12:15 | Gabriel Raicu: <i>Modelling container distribution with fuzzy logic</i> | Zoltán Kiss, Lajos Rodek, László Ruskó, Attila Kuba and Márton Balaskó: <i>Preprocessing and Discrete Tomographic Reconstruction in Neutron Radiography</i> |
| 12:45 | Lunch | |
| Sections | Artificial Intelligence | Compression |
| 14:00 | Ilona Krasznahorkay: <i>Stochastic search on decision trees</i> | István Siket, Gábor Sey and Vilmos Bilicki: <i>Signaling Compression</i> |
| 14:30 | Balázs Szörényi and György Turán: <i>Decision trees and disjoint covers</i> | Ferenc Havasi: <i>Increasing compression performance of block based file systems</i> |
| 15:00 | László Szathmáry: <i>Mining interactions in bibliographical data with domain ontologies</i> | Tamás Gergely: <i>Optimization Methods for Compression in Compiler Programs</i> |

Thursday, July 1 (continued)

| | | |
|----------|--|--|
| 15:30 | Break | |
| Sections | Reliable computing, optimization | Medical Informatics |
| 15:45 | János Balogh and Boglárka Tóth: <i>Numerical methods and experiments on global optimization problems on Stiefel manifolds</i> | Mária Fazekas: <i>Time Series Models on Medical Research</i> |
| 16:15 | Balázs Bánhelyi: <i>A verified computational technique to locate chaotic regions of a Hénon system</i> | Krisztián Ollé, Balázs Erdőhelyi, Endre Varga, György Berkes, Krisztina Maróti and Attila Kuba: <i>Computer Assisted Image Processing and Navigation System for Orthopedic-Trauma Surgery</i> |
| 16:45 | Tamás Vinkó: <i>Reliable global optimization on atom clusters</i> | Gábor Balázs and Balázs Végső: <i>Properties of an Intelligent Cardiovascular Monitoring System</i> |
| 17:15 | János Balogh and András Erik Csallner: <i>A Direct Heuristic Local Search Method - Numerical Results and an Application</i> | Balázs Erdőhelyi, Krisztián Ollé, Endre Varga, and Attila Kuba: <i>Preparing Surgical Operation Plans for Finite Element Analysis Using the MedEdit System</i> |
| 18:15 | Reception at the Town Hall | |

Friday, July 2

| Sections | Artificial Intelligence | Protocols |
|----------|--|--|
| 08:30 | Kornél Kovács and András Kocsor: <i>Classification using sparse combination of base functions</i> | Gábor Kuruc and Krisztina Lója: <i>Routing protocols</i> |
| 09:00 | Gábor Gosztolya and András Kocsor: <i>A Hierarchial Evaluation Methodology in Speech Recognition</i> | Kálmán Marossy: <i>PIC - a Peer-to-Peer Protocol for Mobile Devices</i> |
| 09:30 | Dénes Paczolay, László Felföldi and András Kocsor: <i>Classifier Combination Schemes in Speech Impediment Therapy Systems</i> | Csaba Keszei: <i>Analytical comparison of the IP mobility protocols</i> |
| 10:00 | Break | |
| 10:15 | Plenary talk Zoltán Kása: <i>Complexity of finite and infinite words</i> | |
| 11:00 | Break | |
| Sections | Automata | Modeling |
| 11:15 | Paula Steinby: <i>On Continuity Preserving Weighted Finite Transducers</i> | László Lengyel, Tihamér Leventovszky and Hassan Charaf: <i>Metamodel-based Modeling and Model Transformation Framework Supporting Inheritance and Constraints</i> |
| 11:45 | Zsolt Gazdag: <i>Shape Preseving Buttom-Up Tree Transducers</i> | Péter Domokos and István Majzik: <i>Dependability Modeling of Fault-Tolerant Systems Using Aspect-Oriented Modeling Techniques</i> |
| 12:15 | Attila Egri-Nagy, Chrystopher L. Nehaniv and Pál Dömösi: <i>Holonomy Decomposition of Finite State Automata</i> | Gábor Horváth: <i>Teleonics as a framework for Business Modelling and IT System Design</i> |
| 12:45 | Lunch | |

Friday, July 2 (continued)

| Sections | Algebra, Combinatorics | .NET |
|----------|---|---|
| 14:00 | Péter Gábor Szabó: <i>Packing Equal Circles in a Square - bounds, minimal polynomials and classification</i> | Péter Farkas and Hassan Charaf: <i>Semantic Web Services in .NET aspect</i> |
| 14:30 | István Juhos: <i>Integer Merge Model Representation of the Graph Colouring Problem</i> | Csaba Bornemissza: <i>Building Dynamic Web Applications in the Microsoft .NET Framework using a pure Model View Controller pattern</i> |
| 15:00 | Szabolcs Surányi: <i>Algebraic studies of giant chromosomes in genus Chironomus</i> | Ádám Sillye and Zoltán Porkoláb: <i>Uniform Computation of Complexity Metrics in the .NET Platform</i> |
| 15:30 | Break | |
| Sections | Web | Databases |
| 15:45 | István Székely: <i>Graphical Web application development environment</i> | Gergely Varró: <i>Incremental Graph Transformation in Relational Databases</i> |
| 16:15 | Ágnes Bogárdi-Mészöly: <i>Portal Building Techniques: Trade-Offs and Design</i> | Antal Búza: <i>The different effects of the database update during the long execution of continuous queries</i> |
| 16:45 | Attila Adamkó: <i>Web Information Systems Engineering: problems and solutions</i> | András Benczúr and Balázs Kósa: <i>Static Analysis and Optimization Questions of Structural Recursions in Semistructured Databases</i> |
| 17:15 | Attila Adamkó and Csaba Bornemissza: <i>Planning and Developing Dynamic Web Sites in different platforms</i> | András Gábor: <i>Benchmarking Advanced Features in Database Systems</i> |
| 18:15 | Supper | |

Saturday, July 3

| Sections | Complex systems | Networks |
|----------|--|---|
| 08:30 | Ákos Schmidt: <i>Model Checking of Visual Modeling Languages</i> | Roland Gémesi and László Zömbik: <i>Security Analysis of Sensor Networks</i> |
| 09:00 | Piroska B. Kis and Csaba Mihálykó: <i>Investigation of the asymptotic behaviour of a closed-circuit grinding system</i> | László Zömbik: <i>Revealing of Location in IP Mobility Networks</i> |
| 09:30 | István Katsányi: <i>On Restricted Insertion-Deletion Systems</i> | Róbert Kántor, Sándor Sipos, Sándor Imre and Balázs Rózsás: <i>On the Capacity of IP Micromobility Domains</i> |
| 10:00 | Break | |
| 10:15 | Plenary talk András A. Benczúr: Data mining and web search | |
| 11:00 | Break | |
| Sections | Software engineering | Artificial Intelligence |
| 11:15 | Dan Laurentiu Jisa: <i>A formal approach for clustering classes in software components</i> | Richárd Szabó: <i>Combining metric and topological navigation of simulated robots</i> |
| 11:45 | Gábor Bátori and Domokos Asztalos: <i>Testing aspect in Model Driven Software Development</i> | András Hócza: <i>Shallow Parsing for Information Extraction</i> |
| 12:15 | Róbert Tornai: <i>Multiplatform software developing in connection with the ASF Creator and SAT programs</i> | Szabolcs Marien: <i>Automated excavation and detection of Design Patterns</i> |
| 12:45 | Lunch | |

Saturday, July 3 (continued)

| Sections | Applications | Software Development, MDA |
|----------|--|--|
| 14:00 | Tamás Umenhoffer, Ádám Tilinger and Cecilia Sik-Lányi: <i>Developing applications for testing left-handed people in virtual environments</i> | Ákos Szóke: <i>Quality Driven Software Development</i> |
| 14:30 | Rita Mátrai, Zsolt Tibor Kosztyán and Cecilia Sik-Lányi: <i>Efficiency test of Multilingual and Expandable Multimedia Software "Dyslearning" Developed for Improving Reading Skills</i> | Gábor Fényes: <i>MDA Scalability</i> |
| 15:00 | Julianna Szabó, Attila Páll, Cecilia Sik-Lányi and Ilona Pataky: <i>Creation of the tasks of the Cognitive Computer Aided Therapy Software</i> | András Balogh: <i>Correctness-proven code generation for MDA</i> |
| 15:30 | Attila Páll, Julianna Szabó, Cecilia Sik-Lányi and Ilona Pataky: <i>Creation of the database and the main menu of the Cognitive Computer Aided Therapy Software</i> | Ágnes Papp: <i>UML2 and Model-Driven Development</i> |
| 16:00 | Break | |
| Sections | Programming | Resource management |
| 16:15 | Miklós Espák: <i>Innovative Uses of Programming Constructs Supporting Aspect-Oriented Programming</i> | Zsolt Tibor Kosztyán and Andrea Bencsik: <i>Handling the Uncertainty in Resource Management</i> |
| 16:45 | Raluca Oana Scarlatescu: <i>Generic functions</i> | Szabolcs Póta and Zsolt Tibor Kosztyán: <i>Optimal Deterministic and Stochastic Resource Allocation in a Distributed System</i> |
| 17:15 | Gábor Kusper and Krisztián Kusper: <i>Effective Implementation of Hyper-Unit Propagation on FPGA and PC</i> | Zoltán Kincses: <i>On Avoidance of Attacks Against the PIN Error Counter of Smart Cards</i> |
| 17:45 | Excursion, supper | |

Sunday, July 4

| Sections | Protocols | Slicing, JAVA |
|----------|--|--|
| 08:30 | Gábor Bátori, Dung Le Viet, Antal Wu-Hen-Chang and Gyula Csopaki: <i>Test Data Optimization Method for TTCN-3</i> | Ákos Kiss: <i>Comparison on Static Slicing of C and Binary Programs</i> |
| 09:00 | Szilárd Jaskó: <i>A new mathematical formalism for the TTCN 3 core language</i> | Attila Szegedi and Tibor Gyimóthy: <i>Dynamic Slicing of Programs Compiled for the Java Virtual Machine</i> |
| 09:30 | Sándor Palugyai and Máté J. Csorba: <i>Real-time Optimization of Access Control Lists</i> | István Zólyomi and Zoltán Porkoláb: <i>Family Polymorphism in JAVA</i> |
| 10:00 | Break | |
| 10:15 | Plenary talk Katalin Tarnay: <i>New trends in protocol engineering</i> | |
| 11:00 | Break | |
| Sections | Languages | Web, XML |
| 11:15 | Szilvia Gyapay: <i>Model based Optimization and Verification of IT Systems</i> | László Gönczy: <i>Building Complex Systems of Web Services</i> |
| 11:45 | Benedek Nagy and Szilárd Fazekas: <i>Primitive Words and Permutations</i> | Gergely Pintér: <i>Abstract Model-Based Checkpoint and Recovery</i> |
| 12:15 | László Vidács: <i>Building the Instances of Columbus Schema for C/C++ Preprocessing</i> | Miklós Kálmán and Ferenc Havasi: <i>Compacting XML Documents</i> |
| 12:45 | Lunch | |

Sunday, July 4 (continued)

| Sections | Functional languages, Clean | Queuing System, E-learning, CNN |
|----------|--|---|
| 14:00 | Zoltán Horváth, Tamás Kozsik and Máté Tejfel : <i>Extending the Sparkle Core language with object</i> | Péter Kárász: <i>M/G/1 Queuing System with Two Types of Vacation</i> |
| 14:30 | Zoltán Hernyák, Zoltán Horváth and Viktória Zsók: <i>Control Language for Distributed Clean</i> | Dániel Muhi: <i>Pedagogical considerations in an e-learning framework</i> |
| 15:00 | Rozália Szabó-Nacsa, Péter Diviánszky and Zoltán Horváth: <i>Prototype Environment for Refactoring Clean Programs</i> | Péter Kozma: <i>Seismic wave propagation modelling on emulated digital CNN-UM architecture</i> |
| 15:30 | Break | |
| Sections | Image processing, Graphics, Modeling | Algorithms |
| 15:45 | Péter Balázs and Attila Kuba: <i>Reconstruction of Discrete Sets from Four Projections: Decomposable Cases</i> | Zsuzsanna Vaik: <i>Schedule on parallel machines in the case of individual machine-set</i> |
| 16:15 | Tamás Umenhoffer, Ádám Tilinger and Cecilia Sik-Lányi: <i>Designing and Creating a 3D Display Software</i> | Boglárka Tóth, José Fernández, Frank Plastria, and Blas Pelegrín: <i>On solving a Huff-type facility location and design problem</i> |
| 16:45 | Gábor Stikkel: <i>Dynamic model for the system testing process</i> | Tibor Dulai: <i>Non-cooperative games for self-adaptive telecommunication protocols</i> |
| 18:00 | Closing session, awards | |
| 19:00 | Supper | |