

Detailed Program

Tuesday, June 29

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| 8:00 | Registration |
| 8:45 | Opening |
| Section | Software Engineering 1 |
| 9:00 | Gy.I. Szabó: <i>How Much is XML Involved in DB Publishing?</i> |
| 9:20 | Z. Szűgyi: <i>DeepTest the Static Debugger of Java Programs</i> |
| 9:40 | G. Tóth: <i>Comparison of Programmers' Opinion in Change Impact Analysis</i> |
| 10:00 | F. Fischer: <i>The Comparison of Hybrid Impact Sets Computed During the Application in Different Areas</i> |
| 10:20 | D. Tengeri: <i>Introducing Database Slicing Method and Context-Free Export/Import</i> |
| 10:40 | Break |
| Section | Plenary talk |
| 11:00 | B. Buchberger: <i>Can Inventions in Mathematics and Computer Science be Automated?</i> |
| 11:50 | Break |
| Section | Web |
| 12:00 | R. Hodován: <i>Speeding up browsing with caching regular expressions</i> |
| 12:20 | V. Bilicki, M. Kasza, M. Jelasity: <i>Small Degree BitTorrent</i> |
| 12:40 | Lunch at the Gödör restaurant |
| Section | Image and Singal Processing 1 |
| 14:20 | L. Varga, P. Balázs, A. Nagy: <i>Object Rotation Effects on Binary Tomographic Reconstruction</i> |
| 14:40 | N. Hantos, P. Balázs: <i>Median Filtering in Algebraic Reconstruction Methods</i> |
| 15:00 | B. Antal: <i>Approaches to Improve Macula Detection in Retinal Images</i> |
| 15:20 | K. Bolla: <i>Distinguish Competitor Robot Swarms with On-board Visual Perception System</i> |
| 15:40 | I. Lázár: <i>Feature Selection and Classification Algorithms for Retinal Microaneurysm Detection</i> |
| 16:00 | Break |
| Section | Applications 1 |
| 16:20 | B. Torma, L. Gerencsér: <i>Economic Interpretation of GARCH Models: an Agent-Based Simulation Study</i> |
| 16:40 | K. Veress: <i>Parameter Estimation of a Flow-Measurement Function Used in Digital Angiography</i> |
| 17:00 | A. Huszti, P. Pleva: <i>An Ideal Anonymous E-exam System</i> |
| 17:20 | J. Bozsik: <i>Decision Tree Combined with Neural Networks for Financial Forecast</i> |
| 17:40 | G. Bényász, L. Cser: <i>Clustering Financial Time Series on CUDA</i> |
| 18:00 | Dinner at the Alabárdos restaurant |

Wednesday, June 30

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| Section | Networks and Fuzzy |
| 9:00 | B. Hullár, S. Laki, A. György, G. Vattay: <i>New Methods in Payload Based Network Traffic Classification</i> |
| 9:20 | N. Sterbinszky: <i>Benchmarking the Relationship of Database Management Systems and Application Servers on the Web</i> |
| 9:40 | A. Bóta, M. Krész, A. Pluhár: <i>Applications of Overlapping Community Detection</i> |
| 10:00 | E. Griechisch: <i>Comparison of Clustering and Community Detection Algorithms</i> |
| 10:20 | S.K. Manouchehr: <i>Active Control of Cable Bridges Using Fuzzy Logic</i> |
| 10:40 | Break |
| Section | Plenary talk |
| 11:00 | A.E. Eiben: <i>Evolutionary Algorithms and What to Do About Their Parameters</i> |
| 11:50 | Break |
| Section | Databases and Stochastic Processes |
| 12:00 | R. Giachetta, Zs. Máriás: <i>Performance Evaluation of Storing Inhomogeneous Descriptive Data of Digital Maps</i> |
| 12:20 | J. Hunor: <i>Guided Exploration in Policy Gradient Algorithms with Gaussian Process Function Approximation</i> |
| 12:40 | Lunch at the Gödör restaurant |
| Section | Image and Signal Processing 2 |
| 14:20 | T.S. Tasi, P. Balázs: <i>Obtaining Geometrical Properties of Binary Images from two Projections Using Neural Networks</i> |
| 14:40 | M. Gara, P. Balázs: <i>Binary Tomographic Reconstruction with an Object-Based Evolutionary Algorithm</i> |
| 15:00 | G. Németh, P. Kardos: <i>Algorithms for Topological Kernel Extraction and Thinning</i> |
| 15:20 | P. Kardos: <i>Order-Independent Sequential Thinning on Two-Dimensional Binary Images</i> |
| 15:40 | G. Páli, Z. Gilián, Z. Horváth, A. Persson: <i>Describing Digital Signal Processing Systems in A Functional Reactive Style</i> |
| 16:00 | Break |
| Section | Optimization 1 |
| 16:20 | A. Mosavi: <i>The Multiobjective Optimization Package of IOSO; Applications and Future Trends</i> |
| 16:40 | E. Palatinus: <i>Circle Covering and its Application for Telecommunication Networks</i> |
| 17:00 | L. Pál, T. Csendes: <i>Traffic Flow Prediction in Service Networks</i> |
| 17:20 | A. Csernenszky, Gy. Kovács, M. Krész, A. Pluhár: <i>Parameter Optimization of Infection Models</i> |
| 17:40 | T. Bartók, Cs. Imreh: <i>Vehicle Routing with Multi-Dimensional Loading Constraints</i> |
| 18:00 | Reception at the 1st floor |

Thursday, July 1

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| Section | Matematics of Computing |
| 9:00 | P. Varga: <i>Characterization of Semi-CNS Polynomials</i> |
| 9:20 | Zs. Lengyel, S. Sike: <i>Analysis of ODF Document Schema Transformations</i> |
| 9:40 | T. Demián: <i>Common Logic</i> |
| 10:00 | M. Hegyháti: <i>Mathematical Models and Methodologies in Batch Process Scheduling</i> |
| 10:20 | K. Kalauz, B. Bertók, F. Friedler: <i>Algorithmic Synthesis of Structural Alternatives for Business Processes</i> |
| 10:40 | Break |
| Section | Plenary talk |
| 11:00 | A. Galántai: <i>Reliability of Numerical Algorithms</i> |
| 11:50 | Break |
| Section | Numerical Ananlysis |
| 12:00 | A. Gáti: <i>Miller Analyser for Matlab — A Matlab Package for Automatic Roundoff Analysis</i> |
| 12:20 | I. Bársony: <i>Surprises with Different C/C++ Implementations and a Quizzical MAPLE Example (Two Short Case Studies in Programming)</i> |
| 12:40 | Lunch at the Gödör restaurant |
| Section | Optimization 2 |
| 14:20 | V. Árgilán, J. Balogh, J. Békési, B. Dávid, M. Krész, A. Tóth: <i>Heuristic Approaches for Scheduling Problems in Public Transportation</i> |
| 14:40 | A. Bekéné Rácz: <i>Preprocessing in Linear Fractional Programming</i> |
| 15:00 | L. Pál, T. Csendes: <i>Interval Based Sensor Network Localization</i> |
| 15:20 | Break |
| Section | Distributed Computing |
| 15:40 | R.O. Legéndi, Attila Szabó: <i>Distributing Agent-Based Simulation</i> |
| 16:00 | A. Szabó, R.O. Legéndi: <i>An Agent-Based Model Formalization to Support Distributed Execution</i> |
| 16:20 | V. Vad: <i>Resampling of Volumetric Data with GPU Generated Distance Field</i> |
| 16:40 | Free program |
| 17:40 | Social program (visit the Informatic Collection and gala dinner) |

Friday, July 2

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| Section | Software Engineering 2 |
| 9:00 | Z. Ujhelyi: <i>Static Type Checking of Model Transformation Programs</i> |
| 9:20 | Á. Csendes: <i>Survey of Dynamic Voltage Scaling Methods for Energy Efficient Embedded Systems</i> |
| 9:40 | K. Bunyik, K. Markó: <i>The Vector Library Testing of Feldspar Programming Language Based on Axiomatic Semantics</i> |
| 10:00 | M. Tóth, I. Bozó: <i>Building Dependency Graph for Slicing Erlang Programs</i> |
| 10:20 | I. Szombath: <i>Online Infrastructure Dependency Detection and Tracking</i> |
| 10:40 | Break |
| Section | Plenary talk |
| 11:00 | M. Kovács: <i>An Introduction to Fractional Calculus</i> |
| 11:50 | Break |
| Section | Applications 2 |
| 12:00 | K. Veress: <i>Radiocommunication Testbed for Wireless Sensor Networks</i> |
| 12:20 | T. Dobján, Sz. Pletl, T. Deák, L. Doszpod, G. Pór: <i>Identification of the Place and Materials of Knocking Objects in Flow Induced Vibration</i> |
| 12:40 | Lunch at the Gödör restaurant |
| Section | Computer Graphics |
| 14:20 | G. Klár, G. Valasek: <i>Employing Pythagorean Hodograph Curves for Artistic Patterns</i> |
| 14:40 | L. Lócsi: <i>Calculating Non-Equidistant Discretizations Generated by Blaschke Products</i> |
| 15:00 | R. Kunkli, M. Hoffmann: <i>Skinning of Circles Using Biarcs</i> |
| 15:20 | R. Szendrei, I. Elek, I. Fekete, M. Márton: <i>A Knowledge-Based Approach to Raster-Vector Conversion of Large Scale Topographic Maps</i> |
| 15:40 | Closing |