Detailed Program

Thursday, June 28

8:00	**Registration**
8:45	**Opening**
Section	**Mathematical problems**
9:00	E. Antal, E. Griechisch: *Symbolic Tools for Reformulation of Unconstrained Nonlinear Optimization Problems*
9:20	B. L. Lévai: *Verified localization of trajectories with prescribed behaviour in the forced damped pendulum*
9:40	A. Bóta, M. Krész, A. Pluhár: *Efficient simulation of infection processes*
10:00	L. Hegedüs: *On Some Subsystems of Interval-Valued Logic*
10:20	L. Hegedüs, B. Nagy: *Periodicity of Circular Words*
10:40	Break
Section	**Plenary talk**
11:00	András Kornai: *Language death in the digital age*
11:50	Break
Section	**ERP**
12:00	I. Orosz, T. Orosz: *Change management applying comparison of different versions of Dynamics AX*
12:20	A. Selmeci, T. G. Orosz: *Workflow processing using SAP Objects*
12:40	Lunch
Section	**Recognition**
14:10	A. Mosavi, M. Hoffmann, A. S. Milani: *Adapting the Reactive Search Optimization and Visualization Algorithms for Multiobjective Optimization Problems; Application to Geometry*
14:30	G. Divéki: *An online 1-dimensional clustering problem with variable sized clusters*
14:50	E. Griechisch, J. Csirik: *Acceleration-based Online Signature Verification*
15:10	J. Németh: *Online Signature Feature Extraction from Video*
15:30	Break
Section	**Software development**
15:50	Zs. Borsi: *Describing interaction relationships in SMV language*
16:10	A. Góbi, Z. Szűgyi, T. Kozsik: *Embedding a Query Language into C++*
16:30	P. Hegedűs: *A Probabilistic Software Quality Model for C# – an Industrial Case Study*
16:50	Gy. Orbán: *Analysing Synchronization Contract Support in Modern Software Development Methodologies*
17:10	M. Simon: *AST-based source code analysis and visualization*
19:00	Reception

Friday, June 29

Section	**Data mining**
9:00	I. Póser: *Non-destructive Examination of Tree Trunks with the Help of National Instruments Devices*
9:20	A. Fülöp: *A Biological Driven Method for Correlation Clustering*
9:40	Gy. Móra: *Approximate dictionary matching for biomedical information extraction*
10:00	E. Földi, A. Mosavi, A. Delavar, K. N. Hewage, A. S. Milani, A. A. Moussavi, M. Yeheyis: *Reconsidering the Multiple Criteria Decision Making Problems of Construction Projects; Using Advanced Visualization and Data Mining Tools*
10:20	I. Nagy T.: *Wikipedia-based methods to identify noun compounds in running texts*
10:40	Break
Section	**Plenary talk**
11:00	Horst R. Thieme: *Apparent paradoxes in disease models with horizontal and vertical transmission*
11:50	Break
Section	**Interpolation**
12:00	P. Kovács: *Comparing wavelets and rational methods in ECG signal processing*
12:20	G. Valasek, L. Sallai, A. Jámbori, J. Horváth: *Geometric Newton-Raphson Methods for Plane Curves*
12:40	Lunch
Section	**Optimization**
14:00	V. Árgilán, J. Balogh, B. Dávid, M. Krész: *Heuristic methods for the bus rescheduling problem*
14:20	L. Lócsi, F. Schipp: *Analysis of a hyperbolic optimization method*
14:40	A. Tormási, L. T. Kóczy: *Efficiency and Accuracy Analysis of a Fuzzy Single-Stroke Character Recognizer with Various Rectangle Fuzzy Grids*
15:00	Sz. Lefkovits: *Hybrid Face Detector Based on Boosted Classifiers*
15:20	Break
Section	**Web and mobile**
15:40	E. Lázár: *PhP + MySQL questions and possible answers. Questions and possible solutions by programming a questionnary-make software.*
16:00	R. Hodován: *The Security History of the WebKit Browser Engine*
16:20	B. Keresztury, L. Cser: *Introduction to an automatized cheating prevention system at computerized open-book lab exams*
16:40	K. Pándi, H. Charaf Dr: *Synergy between mobile terminal and cloud computing*
18:00	Bus trip, Museum, Gala Dinner

Saturday, June 30

Section	**Image processing I.**
9:00	P. Bodnár: *Barcode detection with uniform partitioning and morphological operations*
9:20	T. Dobján, G. Németh: *Spectrum skeletonization: a new method for acoustic sign feature extraction*
9:40	G. Gulyás, J. Dombi: *The vagueness measure: a new interpretation and an application to image thresholding*
10:00	Break
Section	**Image processing II.**
10:15	Z. Ozsvár, P. Balázs: *Empirical Studies of Reconstructing hv-Convex Binary Matrices from Horizontal and Vertical Projections*
10:35	M. Gara and P. Balázs: *Artificial Intelligence Methods in Discrete Tomography*
10:55	N. Hantos, P. Balázs, K. Palágyi: *Binary Tomography Using Two Projections and Morphological Skeleton*
11:15	Break
Section	**Image processing III.**
11:35	T. S. Tasi, P. Balázs: *Extracting Geometrical Features of Discrete Images from Their Projections*
11:55	L. Varga, P. Balázs, A. Nagy: *A Novel Optimization-Based Reconstruction Algorithm for Multivalued Discrete Tomography*
12:15	B. Fodor: *Environment Matting by Sparse Recovery*
12:35	Á. Fazekas, H. Daimon, H. Matsuda, L. Tóth: *Computation of Background for Photoemission Electron Microscope Image Using FPGA*
12:55	Lunch
Section	**Compilers**
14:00	A. Antyipin, A. Góbi, T. Kozsik: *Low Level Conditional Move Optimization (Intel Sandy Bridge and AMD K12)*
14:20	Zs. Paróczi: *x86 instruction reordering for code compression*
14:40	T. Szirbucz: *Ideas for Improving Efficiency of Procedural Abstraction*
15:00	Closing