

Tuesday, 5th November 2013

Bus departure from Košice, Aula Fyziky,
Park Komenského 2
10.00

Registration of participants in Spišská Nová Ves,
Hotel Metropol
11.00

Opening Ceremony with Lunch

13.00

Section: Invited lectures

14.00-16.00

Chairwoman: Valerie Novitzká

Andreas Bollin

University of Klagenfurt, Austria

Is there Evolution before Birth? A Closer Look on Software Deterioration

Zoltán Fülöp

University of Szeged, Hungary

Selected topics on weighted tree automata

Karol Matiaško

University of Žilina, Slovakia

As time flows – in databases

16.00-16.30 Coffee break

Section: Distributed systems

16.30 – 18.20

Chairman: Karol Matiaško

16.30-16.50 Róbert Kalmár, František Vítězslav Zbořil, František Zbořil

Security Threats Classification in Wireless Sensor Networks with Mobile Codes

16.50-17.10 Gábor Imre, Hassan Charaf, László Lengyel

Performance of a Java Web Application Running on Amazon EC2 Micro Instance

17.10-17.30 Jakub Žák, František Zbořil

JESTER - Methodology for Developing Wireless Sensor Networks Using Small Agents

17.30-17.50 Matúš Tatarko, Ľuboš Ovseník, Ján Turán

Using FSO System Simulator to Calculate Availability of FSO Links

17.50-18.20 Jarmila Škrinárová

Implementation and evaluation of PSO HC scheduling algorithm for elastic cluster criteria

Section: Theoretical informatics

16.30 – 18.20

Chairman: Zoltán Fülpö

16.30-16.50 Mária Šimařová, Gabriela Andrejková

Speeding up simultaneous alignment and folding of RNA sequences

16.50-17.10 Zuzana Dudláková, Štefan Korečko, Branislav Sobota

Utilization of Petri Nets for Specification of Virtual Reality Systems

17.10-17.30 Mykola Nikitchenko, Andrii Kryvolap
Inference Systems for Floyd-Hoare Logic with Partial Predicates

17.30-17.50 William Steingartner, Davorka Radaković
Categorical structures as expressing tool for differential calculus

17.50-18.20 Gábor Sági
Designing Decidable Logics of Epistemology

Section: Computer architectures and systems

16.30 – 18.20

Chairman: Andreas Bollin

16.30-16.50 Tomáš Páleník, Eugen Ružický, Peter Farkaš,
Markus Rupp, Atilio Gameiro
*Utilizing massive parallelism in decoding of modern error-correcting codes for
accelerating communication systems simulations*

16.50-17.10 Štěpán Cais, Pavel Herout
The Analysis of Methods for Programming Safety-critical Systems

17.10-17.30 Pavol Sokol, Peter Pisarčík
Comparison of the operating system-level virtualization implementation

17.30-17.50 Ivan Plander, Michal Štepanovský
*A Novel Integrated Three-Dimensional MEMS Photonic Cross-Connect
Switch for All-Optical Networks*

17.50-18.20 Branislav Sobota, Štefan Korečko, Csaba Szabó,
František Hrozek
*Acceleration of Raytracing method using predictive evaluation and GPGPU
technology*

Welcome Party with Dinner

19.00

Wednesday, 6th November 2013

Section: Programming languages and programming paradigms

9.00-10.20

Chairman: Jaroslav Porubän

9.00-9.20 Gábor Horváth, Gábor Kozár, Zalán Szűgyi

Generating type-safe script languages from functional APIs

9.20-9.40 Melinda Simon, Gergely Dévai, Zoltán Porkoláb, Norbert Pataki

A Practical Comparison of the Structured and the Functional Programming Paradigms

9.40-10.00 Jakub Livovský, Jaroslav Porubän

Learning Object-oriented Concepts by Playing Computer Games

10.00-10.20 Michaela Bačíková, Jaroslav Porubän

UI Creation Patterns (using iTasks for DSL->GUI transformation)

10.20-10.50 Coffee break

10.50-12.10

Chairman: Jaroslav Porubän

10.50-11.10 Sergej Chodarev, Dominik Lakatoš, Jaroslav Porubän, Ján Kollár

Language Composition based on the Composition of Concepts

11.10-11.30 Ján Kollár, Emília Pietriková

Genetic Evolution of Programs

11.30-11.50 Ivan Halupka, Ján Kollár
Catalog of Grammar Refactoring Patterns

11.50-12.10 Vanya Lazarova
Education and Learning in terms on Web

Section: Applied informatics and simulation

9.00-10.20

Chairman: Zbigniew Domański

9.00-9.20 Petr Bujok, Josef Tvrđík
A New Variant of Competitive Differential Evolution Algorithm

9.20-9.40 Agata Mesjasz-Lech, Iwona Grabara
Directions of the application of IT systems supporting the corporate logistics in the context of internal information exchange

9.40-10.00 Jaroslav Rozman, Radim Luža, František Vítězslav Zbořil
Remote Controlling of the Robotic Arm Mitsubishi Melfa

10.20-10.50 Coffee break

10.50-12.10

Chairman: Zbigniew Domański, William Steingartner

10.50-11.10 Michal Kocifaj
Usage of Navigation Mesh in Container Terminal Simulation

11.10-11.30 Tomáš Harasthy, Luboš Ovseník, Ján Turán
Design of Color Filter for Traffic Sign Recognition System with usage Optical Correlator

11.30-11.50 Andrzej Z. Grzybowski, Zbigniew Domański
An algorithm for modeling tension-propagation in chain-like structures' dynamics

11.50-12.10 Zbigniew Domański, Andrzej Z. Grzybowski
Simulation Study of Translocation Molecules Through Artificial Nanopores

Section: Knowledge management

9.00-10.20

Chairman: Dmitry B. Bu

9.00-9.20 Jan Zelený, Radek Burget
Isomorphic mapping of DOM trees for Cluster-Based Page Segmentation

9.20-9.40 Zsigmond Mariás, Ádám Tarcsi, Tibor Nikovits,
Zoltán Halassy
Benchmark-based Optimization of Computational Capacity Distribution in a Client-server Web Application

9.40-10.00 Gergő Gombos, Tamás Matuszka, Balázs Pinczel,
Gábor Rácz, Attila Kiss, Tamás Gaizer
A Semantic Browser for Enterprise Information Systems on Mobile Platform

10.00-10.20 Bojan Furlan, Slavko Žitnik, Boško Nikolić, Marko Bajec
The Role of Semantic Similarity for Intelligent Question Routing

10.20-10.50 Coffee break

10.50-12.10

Chairman: Dmitriy B. Buy

10.50-11.10 Radu D. Gaceanu, Horia F. Pop

A Parallel Clustering Approach for Hybrid Data Discovery

11.10-11.30 Zalán Szűgyi, Zoltán Porkoláb

Comparison of DC and MC/DC code coverages

11.30-11.50 Pawel Kossecki, Jacek Wachowicz

Valuation of Copyrights for Law Purposes – Copyright Collecting Societies and Cable Operators in Poland

11.50-12.10 Martina Benčková, William Steingartner

Some approaches to recursion in computer science

Lunch

12.30

Trip – Kežmarok, Kežmarok Castle

13.30

Banquet

19.00

Thursday, 7th November 2013

Section: Software Engineering

9.00-10.20

Chairman: William Steingartner

9.00-9.20 Milan Nosáľ, Jaroslav Porubán

Software Documentation through Source Code Annotations

9.20-9.40 M. Mohanned Kazzaz, Marek Rychlý

Web Service Migration with Migration Decisions Based on Ontology Reasoning

9.40-10.00 Libor Olajec

Multi criteria decision-making methods for the analysis of email messages

10.00-10.20 Lukáš Ďurfina, Dušan Kolář

Generic detection of the statically linked code

10.20-10.50 Coffee break

10.50-12.10

Chairman: William Steingartner

10.50-11.10 Bogusława Ziółkowska, Izabela Krawczyk-Sokolowska

Computer-Assisted Tools in Customer Relationship Management

11.10-11.30 Veronika Szabóová, Zdeněk Havlice, Csaba Szabó

Software Architecture with Knowledge Layer of System Requirements

11.30-11.50 Sonja Ristić, Slavica Aleksić, Milan Ćeliković, Vladimir Dimitrieski, Ivan Luković

Meta-modeling in the Context of Database Reengineering

11.50-12.10 Inna Konstantinova Motronenko

Teaching tools of the young specialist in the organization of training informatic pupils which are adapted in the Russian society technologically and communicatory

Section: Computer networks and computer systems

9.00-10.20

Chairman: Jaroslav Zendulka

9.00-9.20 Zuzana Prišćáková, Ivana Rábová

Model of data security for mid-range organizations with using the virtualized environments

9.20-9.40 Lucia Lacko-Bartošová

Algebraic Cryptanalysis of PRINCE Cipher Based on the Method of Syllogisms

9.40-10.00 Łukasz Apiecionek, Jacek M. Czerniak

QoS solution for network resource protection

10.00-10.20 Michal Ennert, Miroslav Hartinger, Marek Čopjak

A Survey of Parallel Intrusion Detection on Graphical Processors

10.20-10.50 Coffee break

10.50-11.50

Chairman: Jaroslav Zendulka

10.50-11.10 Wojciech Kempa

On non-stationary queue-size distribution in a finite-buffer queue controlled by a dropping function

11.10-11.30 Anna Brzozowska, Anna Korombel, Tomasz Lis
Knowledge management in an enterprise as a response to contemporary customers' needs

11.30-11.50 Peter Kvasnica, Igor Kvasnica
Load Balancing in Operating Systems defined by the Time Response simulated in GridSim

Section: Artificial intelligence and Information system research

9.00-10.20

Chairman: Gábor Sági

9.00-9.20 Jiří Král, František Zbořil, František Vítězslav Zbořil
Flexible Plan Handling using Extended Environment

9.20-9.40 Stefan Friese, Kristian Rother
A mixed-paradigm approach for implementing a web-based game server

9.40-10.00 Martin Hlosta, Rostislav Stríž, Jaroslav Zendulka, Tomáš Hruška
PSO-based Constrained Imbalanced Data Classification

10.00-10.20 Michal Šebek, Jaroslav Zendulka,
Generator of Synthetic Datasets for Hierarchical Sequential Pattern Mining Evaluation

10.20-10.50 Coffee break

10.50-12.10

Chairman: Gábor Sági

10.50-11.10 Dmitriy Buy, Serhiy Kompan

Models of Class Specification Junction and Intersection in Object-Oriented Paradigm

11.10-11.30 Dmitriy Buy, Sergey Polyakov, Iuliia Hryshko

Formal Specification of the NoSQL Data Model

11.30-11.50 Jan Kopřiva, Jiří Kunovský, Václav Šátek, Martina Drozdová, Michaela Killian

Parallel system based on the RNS

11.50-12.10 Jan Kopřiva, Jiří Kunovský, Václav Šátek, Filip Kocina, Emir Talic

Numerical integration in the RNS

Lunch

12.30

Closing Ceremony

13.00