

# Program of Conference MOSIS

## April 18, 2004

19:00 - 21:00

Registration, cup of wine

## April 19, 2004

8:00 - 9:45

Registration

10:30 - 12:00

Opening of Conferences MOSIS and ISIM, Invited Papers (konference Hall)

*KUNOVSKÝ Jiří – ŘEZÁČ David – MELKES František, Brno: Modern Taylor Series Method / MOSIS/*

*CAETANO A. – SILVA A. R. – TRIBOLET J.: Object-Oriented Business Process Modelling with Roles /ISIM/*

*DOUŠA Jiří – VŠETEČKA Jiří, Praha: Parallel and Process Oriented Simulation System / MOSIS/*

12:00 - 14:00

Lunch break

14:00 - 18:00

Simulation Application (Room 1)

*STOFFOVÁ Veronika, Nitra: Modelling, simulation and animation in physics*

*POŽIVIL Jaroslav, Praha: Využití lineárních modelů HYSYSu k bilančním výpočtům*

*WALKOWIAK Krzysztof, Wrocław: The Hop-Limit Approach for Optimization of Average Delay in Computer Networks*

*JANKŮ Ladislava, Praha: Modelling Natural Sound Textures*

*SLÍŽIK Peter – HLUCHÝ Ladislav, Bratislava: Evaluation of Suitability of Different Peer-to-Peer technologies for Simulation Application*

*RACEK Stanislav – VAIS Václav, Plzeň: Modeling of highly available computer systems*

*HRUBÝ Martin – PERINGER Petr – RÁBOVÁ Zdena, Brno: Modelling of Tamper-Proof Devices*

*FLORIÁN Vladimír – SLAVÍČEK Pavel – HANÁČEK Petr, Brno: Analysis Methods for Modelling Attacks on Security Devices*

*ŽUFAN Jaroslav – CENDELÍN Jan, Plzeň: Automated evaluation of manifestation of learning*

14:00 - 18:00

Modelling and Simulation Methods, Methodologies, and Techniques – Hardware, Software, and Tools - I (Room 2)

*PUCHALA Edward – REWAK Aleksander, Wrocław: The Measure of Classes Separation in Feature Reduction Task Has Application in Pattern Classification*

*MARKOWSKI, Marcin – KASPRZAK Andrzej, Wrocław: An Approximate Algorithm for Servers Allocation, Topology, Capacity and Flow Assignment Problem in Wide Area Networks*

*POZNIAK-KOSZALKA I. – KOSZALKA L., Wrocław: Choice of Database System Configuration Supported by Simulation*

*HARTMAN David – HEROUT Pavel, Plzeň: Simulation speed-up techniques*

*KOSZALKA Leszek – BRZOSTOWSKI Krzysztof, Wrocław: Computer Experimentation System for Testing Identification Algorithms*

ČERNOHORSKÝ *Jakub, Brno: Speeding-up Simulation Optimization of Discrete Parameters*  
KAVIČKA *Antonín, Pardubice – KLIMA Valent, Žilina – ADAMKO Norbert, Žilina:*  
Simulation model of logistic node and its multipurpose utilisation

19:00 - 22:00

Evening Party in the hotel RELAX

## **April 20, 2004**

8:30 - 12:00

Simulation of Technical Systems (Room 1)

ČECH *Vladimír – JEVICKÝ Jiří, Brno: Model pro hodnocení přesnosti měření délky impulsním laserovým dálkoměrem*

STRÁDAL *Oktavián, Pardubice: Adaptace parametru simulačního modelu asynchronního stroje (Parameter Adaptation in Simulation Model of the Asynchronous machine)*

ŽOLNIEREK *Andrzej, Wrocław: The Pattern Recognition Algorithm for Second-Order Markov Chains With Learning - Simulation Investigations*

GOLA *Mariusz – KASPRZAK Andrzej, Wrocław: Designing Wide Area Network with Trade-Off between Link Cost and Performance*

KVASNICA *Igor – KVASNICA, Peter, Trenčín: Časová synchronizácia programových modulov konfigurovaných v počítačovom systéme simulátora*

KAŠPÁREK *Tomáš, Brno: New Model for OS Kernel Design*

OHLÍDAL *Miloš – SCHWARZ Josef, Brno: Parallel Simulated Annealing Applied to the Traveling Salesman Problem*

SUMEC *Stanislav, Brno: Simulation of Parallel Ray Tracing*

CRHA *Luděk – FUČÍK Otto – DRÁBEK Vladimír, Brno: Image Filter Implementation in FPGA Used for The License Plate Detection*

TUPEC *Pavel – KOTÁSEK Zdeněk, Brno: New Approach to The FPGA Testing Based on the Boundary Scan*

8:30 - 12:00

Modelling and Simulation Methods, Methodologies, and Techniques – Hardware, Software, and Tools – I I (Room 2)

KOČÍ *Radek, Brno: Open Implementations of the Simulation Frameworks*

MARTINEK *David, Brno: General Hierarchical Network*

KUNOVSKÝ *Jiří – ZACIOS Dalibor – TOMICA Petr, Brno: Modern Taylor Series and Coefficients of Fourier Transform Series*

JOKL *Roman – ČÍRTEK Pavel, Plzeň: Speedup of Simulation Programs Using Parallel Processing*

JAROŠ *Jiří – SCHWARZ Josef, Brno: Development Tools for Rapid Prototyping of Evolutionary Algorithms*

ŘUDÁK *Juraj, Trenčín: Routing in Non-Conflict Interconnections Networks*

12:00 - 13:00

Lunch break

13:00 - 16:30

Visit of mountain village Pustevny and Radhošť Hill

16:30 - 18:30

Artificial Intelligence and Neural Networks (Room 1)

*BURDUK Robert, Wrocław: Multistage Pattern Recognition with Fuzzy or Non-Fuzzy Features  
- Results of Simulation*

*WOZNIAK M. – WALKOWIAK K.: Machine Learning Methods for the Traffic and  
Admission Control,*

*ŠNOREK Miroslav, Praha: How to Successfully Predict Time Series by Artificial Neural Nets*

*DRAHANSKÝ Martin – ORSÁG Filip – ZBOŘIL František: Biometrie in Security Applications*

*ZBOŘIL František jun., Brno: Argumentation Base Selection*

16:30 - 18:30

Other Application (Room 2)

*RATYŇSKA Jadwiga, Radom: Natural Language Syntax and HPSG Theory*

*HANTA Vladimír, Praha: Modelling and Simulation of Multiproduct Batch Processes  
as Discrete Event Systems*

*PEŠIČKA Ladislav, Plzeň: Interaction Model of Grid Services*

*CZERWIŇSKA Alina, Warszawa: Applying the Integral Maps in QRST Interval in Simulation  
Unvestigations of Ventricular Late Potentials*

*CZERWIŇSKA Alina – DOROS Marek – KOLEBSKA Krystyna, Warszawa: Computer  
Simulation of the Heart Electrical Field with Improvement of the Credibility of  
Potential Maps*

*ŠIMEK Martin, Plzeň: Performance Evaluation of Personal Agent Migration Policies*

## **April 21, 2004**

8:30 - 11:00

Simulation in Economy, Logistics, Traffics, and Transport Systems (room 1)

*FLOCHOVÁ Jana – KOLLÁRIK Peter, Bratislava: Model-Based Simulation and Control of  
Flexible Manufacturing Systems*

*MUSIL Miroslav – POŽIVIL Jaroslav, Praha: Simulation and Control of Warehouse stock at  
slightly oscillating demand*

*GATIAL Emil – MALIŠKA Martin – HABALA Ondrej – ŠIMO Branislav – HLUCHÝ Ladislav,  
Bratislava: FoorGrid Portal with Built-In Workflow Management*

*PIOTROWICZ Wojciech, Gdańsk: Logistics Process Modelling*

11:00 - 11:20

Final plenary session