

FOI 2015 - Workshop on Foundations of Informatics

August 24-29, 2015, Chisinau, Republic of Moldova

Organizers: Institute of Mathematics and Computer Science of the Academy of Sciences of Moldova, Taras Shevchenko National University of Kyiv, Ukraine, East Computers, SRL in co-operation with the Information Society Development Institute and Tiraspol State University.

Place:

Hotel&TouristResort "VATRA"

Address:

R. Moldova, Vadul lui Voda City, Park Dniester

Timetable and Program

Monday, August 24

15:00 – 19:00 Registration- the hotel lobby.

Tuesday, August 25

08:45 – 09:15 Registration- the hotel lobby.

09:15 – 09:30 Opening ceremony

09.30-12.00 Chairman: Mykola Nikitchenko

09.30-10.30 *Solomon Marcus (invited speaker)*

Trying to understand the emergence of the information paradigm.

10.30-11.00 Coffee Break

11.00-12.00 *Vadim Ermolayev (invited speaker)*

The Law of Gravitation in Ontology Dynamics.

12.00-13.30 Chairman: Ioachim Drugus

12.00-12.30 *Mykola Nikitchenko, Stepan Shkilniak*

Semantic Properties of Logics of Quasiary Predicates.

12.30-13.00 *Artiom Alhazov, Rudolf Freund, Petr Sosik*

Small P Systems with Catalysts or Anti-Matter
Simulating Generalized Register Machines and
Generalized Counter Automata.

13.00-13.30 *Alexander Lyaletski*

Admissibility, compatibility, and deducibility in first-order sequent logics.

13.30-15.00 Lunch

15.00-17.00 Chairman: Constantin Gaidric

15.00-15.30 *William J. Greenberg*

Extensionality, Proper Classes, and Quantum Non-Individuality

15.30-16.00 *Ioachim Drugus*

Universics: an Axiomatic Theory of Universes for the Foundations

16.00-16.30 *Andrei Micu, Adrian Iftene*

Communicative automata based programming. Society Framework

16.30-17.00 *Volodymyr V. Skobelev, Volodymyr G. Skobelev*

On some trends in finite automata theory

17.00-18.00 **Round Table**

Wednesday, August 26

09.30-12.00 Chairman: Svetlana Cojocaru

9.30-10.30 *Gheorghe Păun (invited speaker)*

Natural Computing: Achievements, Dreams, Limits

10.30-11.00 **Coffee Break**

11.00-12.00 *Gabriel Ciobanu (invited speaker)*

Timed Migration and Interaction in World Wide Web

12.00-13.30 Chairman: Gheorghe Paun

12.00-12.30 *Artiom Alhazov, Lyudmila Burtseva, Svetlana Cojocaru, Alexandru Colesnicov, Ludmila Malahov*

Solving Problem of Graph Isomorphism by Membrane-Quantum Hybrid Model

12.30-13.00 *Artiom Alhazov, Lyudmila Burtseva, Svetlana Cojocaru, Alexandru Colesnicov, Ludmila Malahov*

HPC patterns based implementations of P systems
based solutions of hard computational problems

13.00-13.30 *Drugus Ioachim*

An Algebraic Set Theory Based on Universics

13.30-15.00 **Lunch**

15.00-19.00 **Excursion**

Thursday, August 27

09.30-12.00 **Chairman:** Alexander V. Lyaletski

9.30-10.30 *Răzvan Diaconescu (invited speaker)*

Structuring of Specification Modules

10.30-11.00 - Coffee Break

11.00-12.00 *Alexandru Baltag (invited speaker)*

Logic Goes Viral! Modalities for Social Networks

12.00-13.30 **Chairman:** Ion Bolun

12.00-12.30 *Bogdan Aman, Gabriel Ciobanu*

BioMaxP: A Formal Approach for Cellular Ion Pumps

12.30-13.00 *Volodymyr G. Skobelev, Ievgen Ivanov, Mykola Nikitchenko*

Analysis of Nominative Data Sets Structure

13.00-13.30 *Zinaida Apanovich, Alexander Marchuk*

Experiments on cross-language identity resolution

13:30 – 15:00 Lunch

15.00-17.30 **Chairman:** Gabriel Ciobanu

- 15.00-15.30** *Alexey Chentsov, Mykola Nikitchenko*
Institution for Pure First-Order Composition-
Nominative Logic
- 15.30-16.00** *A.A. Moldovyan, D.N. Moldovyan, V.A. Shcherbacov*
Stream Deniable-Encryption Algorithm Satisfying
Criterion of the Computational Indistinguishability
from Probabilistic Ciphering
- 16.00-16.30** *Eugene Kuznetsov*
About Vigenere cipher modifications.
- 16.30-17.00** *N.A. Moldovyan, A.V. Shcherbacov, V.A. Shcherbacov*
On some applications of quasigroups in cryptography
- 17.00-18.00** **Round Table**

Friday, August, 28

- 09.30-10.30** **Chairman: Alexei Averkin**
- 09.30-10.30** *Sonja Smets (invited speaker)*
Logics for Quantum Information
- 10.30-11.00** **Coffee Break**
- 11.00-13.30** **Chairman: Răzvan Diaconescu**
- 11.00-12.00** *Andrei Voronkov (invited speaker)*
TBA
- 12.00-12.30** *Alexei Averkin*
Ambient intelligence in decision support systems
- 12.30-14.30** **Lunch**

14.30-17.00 **Chairman: Adrian Iftene**

14.30-15.00 *Ion Bolun, Alexandru Costas*

Computer Simulation of Multi-optional Decisions

15.00-15.30 *Daniela Gifu*

Contrastive diachronic study on Romanian language

15.30-16.00 *Artiom Alhazov, Svetlana Cojocar, Constantin Ciubotaru, Alexandru Colesnicov, Ludmila Malahov, Mircea Petic*

Word formation problems in Romanian and their solving by P systems

16.00-16.30 *Mustafa Tinkir, Burcu Doganalp, Serkan Doganalp*

Human Resource Selection Process by Using Various Fuzzy Logic Techniques

16.30-17.00 *Sergiu Chilat*

A Prediction System Based on Fuzzy Logic

17.00-17.15 **Closing Ceremony**