

MFOI 2016 - Conference on Mathematical Foundations of Informatics

July 25-31, 2016, Chisinau, Republic of Moldova

Organizers: Mathematical Society of Republic of Moldova and Institute of Mathematics and Computer Science of the Academy of Sciences of Moldova, Taras Shevchenko National University of Kyiv, Ukraine, Alexandru Ioan Cuza University of Iasi, Romania, East Computers, SRL

In co-operation with:

the Information Society Development Institute and Tiraspol State University.

Venue:

Hotel&TouristResort "VATRA"

Address:

R. Moldova, Vadul lui Voda City, Park Dniester

Timetable and Program

Monday, July 25

Workshop on Logic of Natural Languages

(the schedule for this day will come later).

Tuesday, July 26

08:45– 09:30 Registration- the hotel lobby.

09:30–09:45 Opening ceremony

09.45-13.00 Chairman: Mitrofan Cioban

09.45-10.45 *Ivano Alessandro Ciardelli (invited speaker)*
Propositional inquisitive logic: a survey

10.45-11.15 Coffee Break

11.15-12.15 *ten Cate Balder (invited speaker)*
Querying Data bases with Visible and Invisible Relations.

12.15-13.00 *Mykola Nikitchenko, Stepan Shkilniak*
Extending Classical First-order Logic with Quasiary Predicates.

13.00-14.15 Lunch

14.30- Social program. Departure to Chişinău

Wednesday, July 27

09.30-13.00 Chairman: Adrian Iftene

9.30-10.45 *Jebelean Tudor (invited speaker)*

Proof Strategies for the Synthesis of Sorting Algorithms

10.45-11.15 Coffee Break

11.15-12.30 *Puncochar Vit* (invited speaker)

Types of information in non-classical logics

12.30-13.00 *Mitrofan M. Cioban, Ivan A. Budanaev*

Distances on Monoids of Strings and Their Applications

13.00-14.30 Lunch

14.30-17.10 Chairman: Eberhard Guhe

14.30-15.00 *Andrei Alexandru, Gabriel Ciobanu.*

Countable Sets in Finitely Supported Mathematics

15.00-15.30 *Diana Trandabăț, Adrian Iftene*

Complementing Tweets Sentiment Analysis with Semantic Roles

15.30-16.00 Coffee Break

16.00-16.25 *Andreea-Alice Laic, Lavinia-Maria Gherasim, Adrian Iftene*

Expanding a gold collection of images using the Flickr network

16.25-16.50 *Sînică Alboaiie, Lenuta Alboaiie, Mircea-Florin Vaida*

Web service transformations in a federated Enterprise Service Bus based on executable choreographies

16.50-17.10 *Andrei Corlat*

Reliability of Information-Computer Systems with Hierarchical Structure

17.10–19.00 Round table. Cooperation: areas and opportunities

Thursday, July 28

09.30-13.00 Chairman: Tudor Jebelean

9.30-10.45 *Volodymyr G. Skobelev, Volodymyr V. Skobelev*
(invited speaker)
Agents in a Network Environment: Models and
Methods (A Survey)

10.45-11.15 - Coffee Break

11.15-12.30 *Alexander Letichevsky, Oleksandr Letychevskiy,*
Vladimir Peschanenko (invited speaker)
Insertion Modeling and Its Applications

12.30-13.00 *Svetlana Cojocar, Constantin Gaindric, Iulian*
Secieru, Sergiu Puiu, Olga Popcova
Re-engineering of SonaRes Knowledge Base for On-
Site Triage Task in Mass Casualty Situations

13:00 – 14:30 Lunch

14.30-15.40 Chairman: Ivano Ciardelli

14.30-15.00 *Ievgen Ivanov, Mykola Nikitchenko, Volodymyr G.*
Skobelev
Properties of Nominative Programs Specified by
Effective Definitional Schemes

15.00-15.20 *Nicolai A. Moldovyan, Alexandr A. Moldovyan,*
Alexei V. Shcherbacov
Deniable-encryption protocol using commutative
transformation

15.20-15.40 *Alexandra V. Scerbacova, Victor A. Shcherbacov*
About spectrum of T2-quasigroups

16.00- Social program. Departure to Cricova

Friday, July, 29

09.30-13.15 **Chairman: Volodymyr G. Skobelev**

09.30-10.45 *Eberhard Guhe* (invited speaker)

An Indian Logic of Property and Location

10.45-11.15 **Coffee Break**

11.15-12.30 *Dan Cristea* (invited speaker)

Natural Language Processing versus Logic. Pros and cons on the dispute whether logic is useful in the computational interpretation of language

12.30-13.15 *Ioachim Drugus*

An Extensional Model of Natural Languages

13.15-14.30 **Lunch**

14.30-18.00 **Chairman: Dan Cristea**

14.30-15.00 *Svetlana Cojocaru, Lyudmila Burtseva, Constantin Ciubotaru, Alexandru Colesnicov, Valentina Demidova, Ludmila Malahov, Mircea Petic, Tudor Bumbu, Ștefan Ungur*

On Technology for Digitization of Romanian Historical Heritage Printed in the Cyrillic Script

15.00-15.30 *Daniela Gîfu*

Diachronic Analysis Using a Statistical Model

15.30-16.00 **Coffee Break**

- 16.00-16.20** *Cătălina Mărănduc, Ludmila Malahov, Cenel-Augusto Perez, Alexandru Colesnicov*
RoDia – project of a regional and historical corpus for Romanian
- 16.20-16.40** *Haşmet Çağrı Sezgen, Mustafa Tinkır*
Structural Analysis of Industrial H-Type Hydraulic Press by Using Finite Element Method
- 16.40-17.10** *Alexander Lyaletski, Alexandre Lyaletsky*
On linear formats of resolution and paramodulation over ordered clauses
- 17.10- 17.30** *Andrei Rusu, Elena Rusu*
On computer aided knowledge discovery in logic and related areas
- 17.30-18.00** *Alexandre Lyaletsky*
Set-theoretic models of the untyped λ -calculus determined by new notions of continuity
- 18.00-18.10** **Closing ceremony**