

IIS 2011 - International Workshop on Intelligent Information Systems

September 13-14, 2011, Chisinau, Republic of Moldova

Organizer: Institute of Mathematics and Computer Science of the Academy of Sciences of Moldova

Supported by: Supreme Council for Science and Technological Development (Republic of Moldova), National Authority for Scientific Research (Romania) and Union of Scientific and Technical Societies of Moldova (Republic of Moldova)

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Prof. Horia-Nicolai Teodorescu, Iasi, Romania	Tatiana Tofan
Prof. Dan Tufis, Bucharest, Romania	Tatiana Verlan

Timetable and Program

Tuesday, September 13

Place:

Central Scientific Library of Academy of Sciences of Moldova

Address:

5a, Academiei street, Chisinau, Republic of Moldova, MD 2028

09:00 – 09:30 Registration of participants

09:30 – 10:00 Opening ceremony. Welcoming remarks.

10:00 – 10:30 Opening session. Plenary Invited Papers I

10:00 – 10:30 *Florin G. Filip.*

Designing and Building Modern Information Systems;
A Series of Decisions to Be Made

10:30 – 11:00 Coffee Break

11:00 – 13:00 Opening session. Plenary Invited Papers II

Moderator: Dan Cristea, Florin G. Filip

11:00 – 11:25 *D. Cristea.*

Romanian Linguistic Resources On Very Large Scale

11:25 – 11:50 *Horia-Nicolai Teodorescu.*

Modeling Behavior in Social Networks under
Disagreement, in Various Logics

11:50 – 12:15 *Antoni Wiliński.*

Prediction Models of Financial Markets Based on
Multiregression Algorithms

12:15 – 12:40 *Florin G. Filip.*

Innovation - a necessary step towards recovery

12:40 – 13:00 Discussions.

13:00 – 14:30 Lunch

14:30 – 15:00 Plenary Invited Papers III. (Conference Hall of the Institute of Mathematics and Computer Science – office 340)

Moderator: Svetlana Cojocaru

14:30 – 15:00 (ONLINE) *Cinthujaa Sivanantha, Gennaro J. Maffia.*

Analysis and Modeling of Vapor Recompressive Distillation Using ASPEN-HYSYS

15:00 – 16:30 Special session dedicated to the 70th Anniversary of Prof. Constantin Gaidric

Wednesday, September 14

Place:

Institute of Mathematics and Computer Science of the Academy of Sciences of Moldova (IMCS)

Address:

5, Academiei street, Chisinau, Republic of Moldova, MD 2028

Regular session I. Information systems and technologies. (Conference Hall of IMCS – office 340)

Moderator: Ion Bolun, Victor Besliu

09:00 – 09:15 *Ion Bolun.*

Minimization of Disproportionality in PR Voting Systems

09:15 – 09:30 *Costas Ilie.*

Integrated Information Management: Foundation for Knowledge Management

09:30 – 09:45 *Caterina Trocin, Andrei Bragarenco, Victor Sontea.*
Expert System for Medical Diagnosis. Fuzzy Logic

09:45 – 10:00 *Victor Besliu, Dumitru Ciorba, Sergiu Ciumac, Vadim Andronachi.*

Concurrency Anatomy of Intelligent Information System Based on Agents

10:00 – 10:15 *Constantin Gaidric, Iulian Secrieru.*

Knowledge representation and reasoning for ultrasound medical diagnostics

10:15 – 10:30 Discussions

10:30 – 11:00 Coffee Break

Regular session I. Theory of computing. (Conference Hall of IMCS – office 340)

Moderator: Iurie Rogojin, Antoni Wiliński

11:00 – 11:20 *Mitrofan M. Cioban, Liubomir L. Chiriac.*

Automatons and Topological Algebras

11:20 – 11:40 *V. Rogojin, S. Hautaniemi.*

Feedback Loop Centrality to Decide Gene Essentiality in Cellular Signaling Networks

11:40 – 12:00 *Nicolae Magariu.*

The Combined Approach to R-technology Innovation

12:00 – 12:20 *Inga Titchiev.*

Modeling of the Communication Protocol by Means of Colored Petri Nets. Case Study

12:20 – 12:40 *V.A. Shcherbacov.*

On A-center of a Quasigroup

12:40 – 13:00 *Albert Voronin.*

A Nonlinear Compromise Scheme in Multicriteria Problems of Decision-Making

13:00 – 14:30 Lunch

Regular session II. Information systems and technologies. (Conference Hall of IMCS – office 340)

Moderator: Galina Magariu, Peter Bogatencov

14:30 – 14:50 *E.Boian, N.Bruc, S.Cojocar, C.Gaindric, V.Macari, G.Magariu, T.Verlan.*

How to Meet User Needs by Generating Report on Scientific Publications in IAS IMCS

14:50 – 15:10 *Alexandru Colesnicov, Valentina Demidova, Ludmila Malahov, Mircea Petic.*

Integrated Web Platform for Cultural Heritage Presentation Exemplified by the Musical Art in Moldova

15:10 – 15:30 (ONLINE) *Alexei Y. Muravitsky.*

A New Foundation For Knowledge Systems

15:30 – 15:50 *Nicolai Iliuha, Alexei Altuhov, Peter Bogatencov, Grigore Secrieru, Alexandr Golubev.*

SEE-HP Project - Providing Access to the Regional High Performance Computing Infrastructure

15:50 – 16:10 *Valeriu Cabac, Oxana Scutelnic.*

Information and Communications Technology Skills in Differentiated Instruction of Students' Competences

16:10 – 16:30 *M. Butnaru, A. Capatana, G. Capatana, O. Cobileanschi, A. Popov.*

Informational Technologies for Data Processing Regarding Epilepsy

16:30 – 17:00 Coffee Break

Regular session II. Image processing in medicine.

(Conference Hall of IMCS – office 340)

Moderator: Horia-Nicolai Teodorescu, Liudmila Burtseva

17:00 – 17:20 *Liudmila Burtseva.*

Knowledge Acquisitions and Medical Image Analysis:
Mutual Enrichment for Decision Support

17:20 – 17:40 *N.Bruc, G.Magariu, T.Verlan.*

An Approach to Ontology Elaboration for Gallbladder
Ultrasound Images

17:40 – 18:00 *Alexandr Golubev, Peter Bogatencov, Grigore
Secrieru, Nicolai Iliuha.*

DICOM Network – Solution for Medical Imagistic
Investigations Exchange

Wednesday, September 14

Students' session. (IMCS, office 311)

Moderator: Constantin Ciubotaru, Elena Zamsa

09:00 – 09:20 *Elena Boian, Olga Palade, Mircea Petic.*

Aspects of Stemmer and Lemmatiser Construction for
Romanian Language Purposes

09:20 – 09:40 *Elena Zamsa.*

Foray into the Stroke Management Study Using ICT
Solutions

09:40 – 10:00 *Constantin Ciubotaru, Veronica Gîsca.*

Morpho-syntactic Disambiguation Using Attribute
Grammars

10:00 – 10:20 *Octavian Cozniuc.*

Modeling of the Data Processing System "Electronic
registry of economic transactions" Using Colored Petri
Net

10:20 – 10:30 Discussions

10:30 – 11:00 Coffee Break

Moderator: Elena Boian, Mircea Petic

11:00 – 11:15 *Irina Frinea.*

Decision Support System for Ultrasound Diagnostics
SonaRes. Report Generation

11:15 – 11:30 *Sergiu Ivanov.*

Formal Strategies in P Systems

11:30 – 11:45 *Alexandr Chior.*

Event-threading Algorithm on Modern Database
Management Systems

11:45 – 12:00 *Veaceslav Macari.*

Architecting a Hybrid Computation System Using
Microsoft Parallel Extensions, Open MPI, nVidia
CUDA

12:00 – 12:15 *Mircea Petic.*

Procedural Method in Derivative Lexicon Completion

12:15 – 12:30 *Tatiana Popovich.*

Conjugate-orthogonal Quasigroups and Graphs

12:30 – 12:45 *Eugenia Burca.*

Classification of Specification Definition Markers for
DLRLC Entries

12:45 – 13:00 Discussions

13:00 – 14:30 Lunch

Regular session III. Language technologies (office 311)

Moderator: Neculai Curteanu, Alexandru Colesnicov

14:30 – 14:50 *Neculai Curteanu, Diana Trandabăț, Cecilia Bolea.*

Hierarchical Contrastive Focus Applied on the
Romanian Discourse-Prosody Interface

14:50 – 15:10 *Victoria Bobicev.*

Sentiments and Opinions Annotation in User-generated Texts

15:10 – 15:30 *Artiom Alhazov, Elena Boian, Constantin Ciubotaru, Svetlana Cojocar, Alexandru Colesnicov, Ludmila Malahov, Yurii Rogozhin.*

Application of P system Models in Computer Linguistics

15:30 – 15:50 *Tudor-Alexandru Dobrilă, Adrian Iftene.*

Adding a Question Answering Component to a Robot Using Public Ontologies

15:50 – 16:10 *Daniela Gîfu.*

A Technique for Processing of Political Language

16:10 – 16:30 *Ioachim Drugus.*

Metalingua, a Formal Language for Metalogic, Semantic Web and Linguistics

16:30 – 17:00 Coffee Break

Regular session III. Image processing. (office 311)

Moderator: Mihaela Costin, Florin Rotaru

17:00 – 17:20 *Tudor Barbu, Mihaela Costin, Adrian Ciobanu.*

Pattern-based Fingerprint Matching Approach

17:20 – 17:40 *Silviu Bejinariu, Florin Rotaru, Cristina Niță, Ramona Luca.*

Morphological Wavelets for Multifocus Image Fusion

17:40 – 18:00 *Andrej Agarkov.*

Novel Structural Elements for Image Descriptor

18:00 – 18:20 *Kirill Valerievich Murygin.*

Segmentation of Symbols on the Car License Plate Images