



UICS Programme

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- Alaa Sheta, Al-Balqa Applied University, Jordan
- Marius Balas, Aurel Vlaicu University, Romania
- Jair M. Abe, Paulista University, Brazil
- Elena Nechita, University of Bacau, Romania
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- I.C. Baianu, University of Illinois at Urbana, USA
- Costin Badica, University of Craiova, Craiova, Romania
- Tamas Szantai, Budapest University of Technology and Economics, Hungary
- Marusteri Marius, University of Medicine and Pharmacy, Tg. Mures, Romania
- Florin Nichita, "Simion Stoilow" Institute of the Romanian Academy, Romania
- Sugata Sanyal, Tata Institute of Fundamental Research, Mumbai, India
- Laszlo Kovacs, University of Miskolc, Hungary
- Camelia Chira, Babes-Bolyai University, Cluj-Napoca, Romania
- Matthias Dehmer, University of Coimbra, Portugal

Invited Speakers

Invited Speaker: Cyrille Bertelle, Le Havre University, France
 Joint research with: Antoine Dutot and Rawan Ghnemat

Invited speaker: Maarten van Steen, Vrije University, Amsterdam, The Netherlands

Invited Speaker: Tamas Szantai, Budapest University of Technology and Economics, Hungary
Joint research with: Edith Kovacs

Invited Speaker: Florin Boian, Babes Bolyai University of Cluj Napoca, Romania
Joint research with: Rares Boian and Dan Cojocar

Invited speaker: Calin Enachescu, Petru Maior University, Tg. Mures, Romania

Invited speaker: Mihai Talmaciu, University of Bacau, Romania
Joint research: Elena Nechita.

Invited speaker: Angel Garrido, UNED, Spain

22 October 2009

15-17 Registration of participants (Room R21)

Room: R21 and Room: Aula Magna are located in the university building

Petru Maior University

Tagu Mureş, Str. Nicolae Iorga, No.1

County Mureş, Romania

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All the rooms of the conference are in the same building.

17-19 Presentations (Room Aula Magna)

19 Cocktail (with confirmation of participation)

23 October 2009

9-10 Presentations

10-10.20 Coffee Break

10.20 - 12.00 Presentations

12.00-12.20 Coffee Break

12.20-14.00 Presentations

14.00-14.20 Coffee Break

14.20-16.00 Presentations

16.00-17.40 Lunch (with confirmation of participation)

17.40 - 18.40 Presentations

18.40 – 19.20 Conclusions

20 Festive Dinner (with confirmation of participation)

22 October 2009

15-17 Registration (Room R21)

17-19 Room: Aula Magna

Section I: Natural Computing, Self-organizing Systems

Moderators:

Cyrille Bertelle, Le Havre University, France

Florin Boian, Babes Bolyai University of Cluj Napoca, Romania

17-17.30

Invited Speaker: Cyrille Bertelle, Le Havre University, France

Joint research with: Antoine Dutot and Rawan Ghnemat

Talk: “Applicative issues from self-organized systems based on social insects modeling”

17.30-18

Invited Speaker: Tamas Szantai, Budapest University of Technology and Economics, Hungary

Joint research with: Edith Kovacs

Talk: “Pattern recognition using t-cherry junction tree structures”

18- 18.20

Invited Speaker: Florin Boian, Babes Bolyai University of Cluj Napoca, Romania

Joint research with: Rares Boian and Dan Cojocar

Talk: “Managing virtual reality objects using peer-to-peer architecture”

18.20-18.40

UICS 23. Clara Ionescu, Ionut Muntean and Robin de Keyser.

“The respiratory impedance in an asymmetric model of the lung structure”

18.40-19

UICS 58. Bogdan Crainicu and Barna Iantovics.

“A Comparison of Two Proposed Key-Scheduling Algorithms for RC4 Stream Cipher”

19 Cocktail

23 October 2009

Section II: Complex Networks, Neural Networks

Room: Aula Magna

Moderators

Tamas Szantai, Budapest University of Technology and Economics, Hungary

Angel Garrido, UNED, Spain

9.00-9.30

Invited speaker: Maarten van Steen, Vrije University, Amsterdam, The Netherlands

Talk: “Epidemic-based generation of random networks”

9.30-10.00

Invited speaker: Calin Enachescu, Petru Maior University, Tg. Mures, Romania
Talk: "Theoretical foundation of active learning in neural computation."

10.00-10.20 Coffee Break

Section III: Computationally hard problems, issues and solutions Room A307

Moderators:

Maarten van Steen, Vrije University, Amsterdam, The Netherlands
Mihai Talmaciu, University of Bacau, Romania
Florin Nichita, "Simion Stoilow" Institute of the Romanian Academy, Romania

10.20-10.40

Invited speaker: Mihai Talmaciu, University of Bacau, Romania
Joint research: Elena Nechita.
Talk: Optimization problems on threshold graphs

10.40-11.00

UICS 38. Dragos Popescu, Mihnea Rosu-Hamzescu and Adrian-Cristian Petrescu.
Distributed reconfigurable digital systems virtual laboratory

11.00-11.20

UICS 24. Rodica Mariana Ion, Adriana Filip, Simona Clichici and Adriana Muresan.
Mathematical model for tspp drug-delivery in nanomedicine

11.20-11.40

UICS 22. David Hobby, Barna Iantovics and Florin Nichita. On the (Colored) Yang-Baxter Equation

11.40-12.00

Invited speaker: Angel Garrido, UNED, Spain
Talk: Searching by Graphs

12.00-12.20 Coffee Break

12.20-12.40

UICS 52. Horatiu Mocian and Ovidiu Dan. New Developments on the Newistic Platform

12.40-13.00

UICS 49. Andreas Petter, Stephan Borgert, Erwin Aitenbichler, Max Muhlhauser and Alexander Behring. Understanding Service Composition with Non-Functional Properties Using Declarative Model-to-Model Transformations

13.00-13.20

UICS 56 Cristian Cira, Viorel Negru, "Front End System For Nonlinear Equations Solver"

13.20-13.40

UICS 10. Filimon Maria, Ileana Ioan, Joldes Remus, Rotar Corina and Boca Loredana. Data Mining Learning Models and Algorithms on a SCADA System Data Repository

13.40-14.00

UICS 11. Bogdan Croitoru, Loredana Boca, Mircea Risteiu, Lucia Cabulea and Emilian Ceuca. Evaluating TCP/IP - Wi-Fi data packets for real-time process control

14.00-14.20 Coffee Break

14.20-14.40

UICS 4. Istvan Gergely Czibula and Gabriela Czibula. On converting software systems to object oriented architectures

14.40-15.00

UICS 21. Jean Dezert and Florentin Smarandache. An Introduction to DSMT

Section IV: Higly complex systems

Room A403

Moderators:

Calin Enachescu, Petru Maior University, Tg. Mures, Romania

Barna Iantovics, Petru Maior University, Tg. Mures, Romania

10.20 – 10.40

UICS 29. Stephan Borgert, Matthias Dehmer and Erwin Aitenbichler. A Comparative Study of Complexity Measures to Analyze Business Process Models

10.40-11.00

UICS 40. Joel Ratsaby. Learning, complexity and information density

11.00-11.20

UICS 30. Daniel Munteanu, Rodica-Mariana Ion and George-Costel Cocina. Comparative study of single- and multi-wall carbon nanotubes with application in cerebral aneurysm

11.20-11.40

UICS 31. Ion Baianu, James Glazebrook and Ronald Brown. Complex Systems, Meta-Systems and Ontological Levels: The Emergence of Life, Human Consciousness and Society

11.40 – 12.00

UICS 28. Matthias Dehmer and Stephan Borgert. On the Information Content of weighted chemical Structures

12.00 – 12.20 Break

12.20 – 12.40

UICS 17. Ion Baianu, James Glazebrook, George Georgescu and Ronald Brown. Lukasiewicz-Moisil many-valued logic algebra of highly-complex systems

12.40-13.00

UICS 18. James Glazebrook and Ion Baianu. Human Intelligence Representations as Ultra-Complexity Levels in Categorical Ontology

13.00-13.20

UICS 5. Adela Ionescu and Daniela Coman. Understanding the Mixing Phenomena- from Structural Stability to Chaos

Section V: Cognitive Complex Systems, Biological Complex Systems Room A403

Moderators:

Cyrille Bertelle, Le Havre University, France

Elena Nechita, University of Bacau, Romania

Barna Iantovics, Petru Maior University of Tg. Mures, Romania

13.20-13.40

UICS 57 Aritoni Ovidiu and Negru Viorel. Towards Semantic Services for Context-Aware Intelligent Systems

13.40-14.00

UICS 33. Vasile Cornita and Cristina Pop. Adaptive software architecture for events intensive applications using neural networks

14.00-14.20 Coffee Break

14.20-14.40

UICS 35. Christopher Stanton. Models of meaning for autonomous robots

14.40-15.00

UICS 59. Barna Laszlo Iantovics, Bogdan Crainicu and Constantin-Bala Zanfirescu. Complex Hybrid Medical Systems

15.00-15.20

UICS 8. Sorin Ilie and Costin Badica. Ant Colony Optimization on a Distributed Architecture

15.20-15.40

UICS 32. Mihaela Baritz, Diana Cotoros, Luciana Cristea and Ion Balcu. Assessment of human bio-behavior during gait process using lifemod software

15.40-16.00

UICS 13. Mihnea Scafeş and Costin Badica. Service negotiation in disaster management

16.00-17.40 Lunch

17.40-18.00

UICS 20. Bogdan Covaci and Radu Pop. Input Peripheral Based on EOG Signals

18.00 – 18.20

UICS 55. Constantin-Bala Zamfirescu, Luminița Duță and Barna Laszlo Iantovics. The cognitive complexity in modelling the group decision process

18.20-18.40

UICS 61. Ioan Ispas. Critical issues on the Image Recognition and Classification Problem

Section VI: Complexity Issues in Applied Sciences, Medical and Pharmaceutical Sciences

Room R35

Moderators:

Benedek Imre, University of Medicine and Pharmacy, Tg. Mures, Romania

Benedek Teodora, University of Medicine and Pharmacy, Tg. Mures, Romania

10.20-10.40

UICS 36. Ana Ioanid and Radu Mircea Ciuceanu. Dielectric analysis of porous silicon nanochannels in the electrical double layer length range. mathematical features of physical mechanisms complexity

10.40-11.00

UICS 45. Mirela Mitu, Balaci Teodora, Mircia Eleonora, Stanescu Andreea, Nicoara Anca and Fita Ancuta. Study about a complex formulation of a dermo-cosmetic photoprotective cream.

11.00-11.20

UICS 62. Theodora Benedek, Istvan Benedek jr, Istvan Kovacs, Claudia Matei, Szilard Madaras, Alexandru Sarbu, Imre Benedek Complex computerized three-dimensional assessment of left ventricle's function

11.20-11.40

UICS 25. Dreve Simina-Virginia. Optical study of 5,10,15,20-tetrakis (4-sulfonatophenyl) porphyrin (tpps4)- chitosan assemblies

11.40-12

UICS 46. Mirela Mitu, Balaci Teodora, Mircia Eleonora, Stanescu Andreea, Nicoara Anca and Fita Ancuta. Studies towards obtaining a photoprotective dermo-cosmetic complex product with natural extracts and inorganic and organic substances.

12-12.20 Coffe Break

12.20-12.40

UICS 63. Imre Benedek, Istvan Benedek jr, Monica Chitu, Istvan Kovacs, Claudia Matei, Szilard Madaras, Alexandru Sarbu, Theodora Benedek. Complex strategies for mortality reduction in the treatment of acute coronary syndromes on a 1 million inhabitants population.

12.40-13

UICS 26. Marcela-Corina Rosu, Ramona-Crina Suciuc and Simina-Virginia Dreve.
Preparation and characterization of TiO_2/CdS layers as potential photoelectrocatalytic materials

13-13.20

UICS 47. Mirela Mitu, Ancuta Fita, Teodora Balaci, Andreea Stanescu, Emma Cretu. The physical study of chewable tablets with a calcium complex association and vitamin D_3

13.20-13.40

UICS 48. Mirela Mitu, Anuța Fița, Teodora Balaci, Andreea Stănescu, Emma Crețu
Study of the formulation and preparation of chewable tablets with a calcium complex association and vitamin D_3 .

13.40-14

UICS 14. Eleonora Mircia, Silvia Imre and Veronica Avrigeanu. Complexity of the physical study of modified release tablets with pentoxifylline and hydroxypropylcellulose obtained by wet granulation with PEG 6000

Section VII: Semantic Technologies and Knowledge-Based Systems Room R35

Moderators:

László Kovács, University of Miskolc, Hungary

Mihai Talmaciu, University of Bacau, Romania

Dumitru Radoiu, Petru Maior University of Tg. Mures, Romania

14.20-14.40

UICS 53. László Kovács. Mapping between semantic graphs and sentences in grammar induction

14.40-15

UICS 42. Dumitru Radoiu. Semantic Technology Impact in Teaching and Learning Process

15-15.20

UICS 16. Ion C. Baianu, James Glazebrook and Ronald Brown. A Novel Categorical Ontology Framework for Complex Systems Biology

15.20-15.40

UICS 50. Roberto Paiano and Andrea Roggerone. My E-Wall: Design of a web portal fully customizable and ontology based

15.40-16

UICS 41. Dumitru Radoiu. Research Areas in Semantic Technology

16-16.20

UICS 51. Ugo Barchetti, Alberto Bucciero, Anna Lisa Guido, Luca Mainetti, Roberto Paiano and Andrea Pandurino. Designing collaborative virtual environments through a language based on statechart metaphor

16.20-17.40 Lunch

18.40 – 19.20 Conclusions

20⁰⁰ – Festive Dinner