**SISY 2014 FINAL program**

*updated on September 4*

**September 11, Thursday (Town Hall)**

13:00 – 14:15  Registration

14:15 – 14:30  Opening Ceremony

14:30 – 15:15  Plenary Session I

**Session Chair:** Márta Takács

15:15 – 15:30  Coffee break

15:30 – 16:15  Plenary Session II

**Session chair:** Endre Pap

Imre J. Rudas: MOOC - The Educational Revolution of the Century

16:15 – 17:00  Introduction of Town Hall

17:00  Welcome Reception

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<th>58</th>
<th>C. L. Philip Chen</th>
<th>A New Learning Algorithm for a Fully Connected Fuzzy Inference System (F-CONFIS) with its Application for Computing Learning Capacity</th>
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# September 12, Friday (Subotica Tech, VTS)

**9:00 – 10:40**  
[F1a] Session ‘Informatics’ I  
Room A2

**Session chair:** Szilveszter Pletl

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<td>Structural and Semantic Markup of Complaints: Case Study of Serbian Judiciary</td>
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<td>Decentralizing a cyber-physical workflow system with a cloud messaging system</td>
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<td>Testing Linear Separability in Classification of Inflection Rules</td>
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<td>Analysis of Packet Loss Prediction Effects on the Objective Quality Measures of Opus Codec</td>
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<td>Software System for Broadcasting and Monitoring Traffic Information</td>
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**9:00 – 10:40**  
[F1b] Session ‘Applied Mathematics’  
Room 204

**Session chair:** Martin Kalina

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<td><strong>Domenico Candeloro</strong> and Anna Rita Sambucini</td>
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<td><strong>Madalina Erascu</strong></td>
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<td></td>
<td>Modelling multiple REIT indices using TAR models based on aggregation functions</td>
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<td>Using Total Correlation to Discover Related Clusters of Clinical Chemistry Parameters</td>
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<tr>
<td></td>
<td>Order-type Henstock and McShane integrals in Banach lattice setting</td>
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<td>Construction of uninorms on bounded lattices</td>
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<td></td>
<td>Semi-Automatic Analysis of Algorithms Complexity(\text{Case Study: Square-Root Computation})</td>
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**9:00 – 10:40**  
[Fp1] poster session ‘Informatics’ I  
ground floor

**Session chair:** Krisztina Némethy

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<td><strong>Dalibor Dobrilović</strong>, Zeljko Stojanov, Vladimir Brtka, Zlatko Ćović and Nemanja Bilinac</td>
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<td>Software Application for Analyzing ZigBee Network Performance in University Courses</td>
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<td>51</td>
<td><strong>Janos Simon</strong></td>
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<td><strong>Franciska Hegyesi</strong>, Rita Ősz and <strong>Krisztina Némethy</strong></td>
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<td>Petar Cisar and Sanja Maravic Cisar</td>
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10:40 – 11:00  Coffee break and Art Gallery opening

11:00 – 12:20  [F2a] Session ‘Informatics’ II  
**Session chair: Robert Pinter**

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<td>Task Scheduling in Distributed Volunteer Computing Systems</td>
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11:00 – 12:40  [F2b] Session ‘PhD special session’  
**Session chair: László Horváth**

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<td>Analysis of annual production of a multi-tilted PV system</td>
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<td>Ervin Burkus and Péter Odry</td>
<td>Implementation of 3D ground contact model for uneven ground using SimMechanics</td>
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<td>56</td>
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<td>A Small Laboratory-Scale Experimental Method and Arrangement for Investigating Wavelength Dependent Irradiations of Solar Cells</td>
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| 11:00 – 12:40| **[Fp2] Poster Session on Applied Mathematics I**  
**Session chair:** Biljana Mihailovic                                                                                                                                 |
| 12:40 – 14:30| Lunch                                                                                                                                                                                                 |
| 14:30 – 15:50| **[F3a] Session ‘Informatics’ III**  
**Room A2**  
**Session chair:** György Molnár                                                                                                                                 |
| 14:30 – 15:50| **[F3b] Session ‘Computational Intelligence’ I**  
**Room 204**  
**Session chair:** Levente Kovács                                                                                                                                 |

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<td>Jensen type inequality for the pseudo-integral based on the smallest universal integral</td>
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<td>Aleksandar Takaci, Ivana Stajner-Papuga, Miroslav Maric and Darko Drakulic</td>
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<td>Isabela Dramnesc and Tudor Jebelean</td>
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<td>Andras Sagi and Eva Pataki</td>
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<td>Peter Sarcevic, Szilveszter Pletl and Zoltan Kincses</td>
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<td>14:30 – 16:10</td>
<td>[FP3] Poster Session on Informatics II</td>
<td>ground floor</td>
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<td>Banquet</td>
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**Session chair:** Dalibor Dobrilovic

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**Session chair:** Nebojsa Ralevic

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9:00 – 10:20  [S1b] Session ‘Computational Intelligence’ II

Session chair: Peter Lacko

9:00 – 10:00  [S1c] Session ‘e-learning’

Session chair: Janos Karsai

"Mathematica modelling with Mathematica " --- Janos Karsai, Boyai Intezet, Seged

"Visualization of fractional culculus" ----- Durdica Takaci, Lila Korenova

"Collaborative learning with computer' ---- Durdica Takaci, Gordana Stankov

9:00 – 10:20  [SP1] Poster session on Mathematics II

Session chair: Tatjana Grbić

2  Slavica Medić, Tatjana Grbić, Aleksandar Perović and Nataša Duraković  Interval-valued Chebyshev, H"older and Minkowski inequalities based on g-integrals

3  Slavica Medić, Tatjana Grbić, Ivana Štajner-Papuga and Gabrijela Gruijić  Central g-moments of order n for random variables

10  Nebojsa Peric, Obrad Kasum, Aleksandar Jovanovic and Aleksandar Perovic  A Specific Spectroscopy of Microscopic Images with Improved Small Object or Artefact Perception and Manipulation
10:20 – 10:40  Coffee break

10:40 – 12:00  [S2a] Session on ‘Intelligent Manufacturing Systems’

Session chair: Gyula Hermann

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<td>Danka Antic, Nikola Djuric and Dragan Kljajic</td>
<td>The AMB-8057/03 Sensor Node Implementation in the SEMONT EMF Monitoring System</td>
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<td>Gyula Hermann</td>
<td>Determination of the Track Parallelism of a Sandwich Panel Producing Machine</td>
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<td>Raul Kulcsar, Ion Silviu Borozan, Veronica Argesanu, Inocentiu Maniu and Felicia Streian</td>
<td>Experimental determination of the intervertebral stress</td>
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10:40 – 11:40  [S2b] Session on Session ‘Computational Intelligence’ III

Session chair: Miklós Póth

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<td>Particle Swarm Optimization Approach to Discrete Tomography Reconstruction Problems of Binary Matrices</td>
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12:30  Social event: Lunch and excursion to a local vineyard

No dress code.

Informal cloths, and comfortable shoes.