

## SYNASC'07 Program

Wednesday, September 26			
8:00-9:00	<b>Registration</b> (West University of Timisoara, ground floor, room 045C)		
9:00-9:20	Opening		
9:20-10:10	<b>Invited talk.</b> Room 045C, chair: Tudor Jebelean <i>Fairouz Kamareddine - The gradual computerisation of mathematics in MathLang</i>		
10:10-10:30	Coffee break		
10:30-12:10	Main track: <b>Automated reasoning and formal verification.</b> Room: 045C, chair: Fairouz Kamareddine <ul style="list-style-type: none"> <li>• S. Stratulat - <i>'Descente Infinie' Induction-based Saturation Procedures</i></li> <li>• H. Anderson, S.-C. Khoo, Y. Liu - <i>A Tool for Calculating Exponential Run-time Properties</i></li> <li>• C. Dima, C. Enea, R. Gramatovici, A. Sofronia - <i>Strategy-based and knowledge-based models of information flow: equivalence and decidability</i></li> <li>• A.Craciun, M. Hodorog - <i>Decompositions of Natural Numbers: From A Case Study in Mathematical Theory Exploration</i></li> <li>• K.Verchinine, A. Lyaletski, A. Paskevich, A. Anisimov - <i>Is a mathematical text correct? From a logical and practical point of view</i></li> </ul>		
12:10-14:00	Lunch		
14:00-14:50	<b>Invited talk.</b> Room 045C, chair: Dana Petcu <i>Kevin Hammond - SymGrid: a Framework for Symbolic Computations on the Grid</i>		
14:50-15:10	Coffee break		
15:10-16:50	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Main track: <b>Parallel and distributed computing</b>  Room: 045C, chair: Kevin Hammond <ul style="list-style-type: none"> <li>• L. Ruff - <i>Functional-Based Comparison between two Special Classes of Uni- and Bidirectional Systolic Arrays</i></li> <li>• G. Macariu, D. Petcu - <i>Parallel Multiple Polynomial Quadratic Sieve on Multi-core Architectures</i></li> <li>• L. Cojocaru - <i>Branching Programs, Grammar Systems and the NCI class</i></li> <li>• B. Aman, G. Ciobanu - <i>Structural Properties and Observability in Membrane Systems</i></li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <b>WfPM workshop</b>  Room: 151, chair: Florin Fortis <ul style="list-style-type: none"> <li>• S. D. Induruwa-Fernando, D. A. Creager, A. C. Simpson - <i>Towards build-time interoperability of workflow definition languages</i></li> <li>• H. Almeida, F. Graca, H. Lourenco, M. Mira da Silva - <i>Enhancing a RAD Enviroment with Business Process Execution Capabilities</i></li> <li>• L. Maruster, N.R.T.P. van Beest - <i>A process mining approach for redesigning business processes - a case study in gas industry</i></li> <li>• L. Capra, W. Cazzola - <i>A Reflective PN-based Approach to Dynamic Workflow Change</i></li> <li>• F. Bezzera, J. Wainer - <i>Detecting Fraudulent Executions in Business Process Aware Systems</i></li> </ul> </td> </tr> </table>	Main track: <b>Parallel and distributed computing</b> Room: 045C, chair: Kevin Hammond <ul style="list-style-type: none"> <li>• L. Ruff - <i>Functional-Based Comparison between two Special Classes of Uni- and Bidirectional Systolic Arrays</i></li> <li>• G. Macariu, D. Petcu - <i>Parallel Multiple Polynomial Quadratic Sieve on Multi-core Architectures</i></li> <li>• L. Cojocaru - <i>Branching Programs, Grammar Systems and the NCI class</i></li> <li>• B. Aman, G. Ciobanu - <i>Structural Properties and Observability in Membrane Systems</i></li> </ul>	<b>WfPM workshop</b> Room: 151, chair: Florin Fortis <ul style="list-style-type: none"> <li>• S. D. Induruwa-Fernando, D. A. Creager, A. C. Simpson - <i>Towards build-time interoperability of workflow definition languages</i></li> <li>• H. Almeida, F. Graca, H. Lourenco, M. Mira da Silva - <i>Enhancing a RAD Enviroment with Business Process Execution Capabilities</i></li> <li>• L. Maruster, N.R.T.P. van Beest - <i>A process mining approach for redesigning business processes - a case study in gas industry</i></li> <li>• L. Capra, W. Cazzola - <i>A Reflective PN-based Approach to Dynamic Workflow Change</i></li> <li>• F. Bezzera, J. Wainer - <i>Detecting Fraudulent Executions in Business Process Aware Systems</i></li> </ul>
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Thursday, September 27			
9:00-9:50	<b>Invited talk.</b> Room: 045C, chair: Adrian Giurca <i>Mark Proctor- JBoss Rules - The open source Java rule engine</i>		
9:50-10:00	Coffee break		
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15:00-15:50	<b>Invited talk</b> . Room: 045C, Chair: Viorel Negru <i>Vladimir Gorodetsky - P2P Open Agent Networks for Decision Making</i>		
15:50-16:00	Coffee break		
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19:00-21:30	Conference dinner		

<b>Friday, September 28</b>			
8:30-9:20	<b>Invited talk</b> Room: 045C, Chair: Stefan Maruster <i>Charles Chidume – On the Mann iteration process</i>		
9:20-9:30	Coffee break		
9:30-10:50	<table border="1"> <tr> <td> <b>IMNE workshop</b> Room 045C, Chair: Charles Chidume <ul style="list-style-type: none"> <li>• Ion Pavaloiu, Emil Catinas – <i>On a Steffenson type method</i></li> <li>• Stefan Maruster, Cristina Popirlan - <i>On the regularity condition in convex feasibility problem</i></li> <li>• Octavian Cira, Cristian Mihai Cira - <i>The algorithm that determines the start iteration of the Halley-Altman method</i></li> <li>• Vasile Berinde – <i>Iterative approximation of fixed points</i></li> <li>• E.Catinas - <i>Estimating the radius of the attraction balls for the successive approximations</i></li> </ul> </td> <td> <b>GridCAD workshop</b> Room 151, Chair: Dorian Gorgan <ul style="list-style-type: none"> <li>• Antonio Plaza, Javier Plaza, Abel Paz, Soraya Blazquez - <i>Parallel CBIR System for Efficient Hyperspectral Image Retrieval from Heterogeneous Networks of Workstations</i></li> <li>• Mihai Pantelimon, Florin Pop, Valentin Cristea - <i>Grid Service for Environmental Data Retrieval and Disasters Detection Based on Satellite Image Analysis</i></li> <li>• Antonio Plaza - <i>Cluster-Based Implementation of a Morphological Watershed Algorithm for Parallel Classification of Multichannel Images</i></li> <li>• Marc Eduard Frincu, Dana Petcu - <i>Remote Control for Graphic Applications</i></li> </ul> </td> </tr> </table>	<b>IMNE workshop</b> Room 045C, Chair: Charles Chidume <ul style="list-style-type: none"> <li>• Ion Pavaloiu, Emil Catinas – <i>On a Steffenson type method</i></li> <li>• Stefan Maruster, Cristina Popirlan - <i>On the regularity condition in convex feasibility problem</i></li> <li>• Octavian Cira, Cristian Mihai Cira - <i>The algorithm that determines the start iteration of the Halley-Altman method</i></li> <li>• Vasile Berinde – <i>Iterative approximation of fixed points</i></li> <li>• E.Catinas - <i>Estimating the radius of the attraction balls for the successive approximations</i></li> </ul>	<b>GridCAD workshop</b> Room 151, Chair: Dorian Gorgan <ul style="list-style-type: none"> <li>• Antonio Plaza, Javier Plaza, Abel Paz, Soraya Blazquez - <i>Parallel CBIR System for Efficient Hyperspectral Image Retrieval from Heterogeneous Networks of Workstations</i></li> <li>• Mihai Pantelimon, Florin Pop, Valentin Cristea - <i>Grid Service for Environmental Data Retrieval and Disasters Detection Based on Satellite Image Analysis</i></li> <li>• Antonio Plaza - <i>Cluster-Based Implementation of a Morphological Watershed Algorithm for Parallel Classification of Multichannel Images</i></li> <li>• Marc Eduard Frincu, Dana Petcu - <i>Remote Control for Graphic Applications</i></li> </ul>
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10:50-11:00	Coffee break		
11:00-11:30	<b>Invited talk</b> Room 045C, Chair: Vasile Berinde <i>Ioan A. Rus – Some application of weakly Picard operators</i>		
11:30-12:30	<b>Special event in honour of Professor Stefan Maruster on his 70<sup>th</sup> birthday</b> Room 045C, Chair: Bruno Buchberger		
12:30-14:00	Cocktail		
14:00-14:50	<b>Invited talk.</b> Room: 045C, Chair: Tudor Jebelean <i>Bruno Buchberger - Journal as Active Math-Agents: Outline of a Project with a Mathematics Publisher</i>		
14:50-15:00	Coffee break		
15:00-16:40	<table border="1"> <tr> <td> <b>GridCAD workshop</b> Room 045C, Chair: Antonio Plaza <ul style="list-style-type: none"> <li>• Adrian Colesa, Teodor Pop, Iosif Ignat, Cosmin Ardelean - <i>Automatic and Reliable Distribution of Data in Grids over Globus Toolkit</i></li> <li>• Dacian Tudor, Georgiana Macariu, Vladimir Cretu - <i>A Performance Analysis on Message Passing Tools for the Grid</i></li> <li>• Rodica Potolea, Alin Suciu - <i>Finding the Optimal Read Buffer Size for Grid Applications</i></li> <li>• Alexandru Carstea, Georgiana Macariu, Marc Frincu, Dana Petcu - <i>Composing Web-based Mathematical Services</i></li> </ul> </td> <td> <b>NCA workshop</b> Room 151, Chair: Daniela Zaharie <ul style="list-style-type: none"> <li>• D. Iclanzan, D. Dumitrescu - <i>Overrepresentations in Neutral GenotypePhenotype Mappings and their Applications</i></li> <li>• O. Brudaru, O. Buzatu - <i>Designing fast and accurate fuzzy approximators with Kohonen networks and genetic algorithms</i></li> <li>• D. Iclanzan, P. Fulop, D. Dumitrescu - <i>Neuro-Hill-Climber: A New Approach Towards more Intelligent Search and Optimization</i></li> <li>• P. Pop, C. Pinteaa, C. Pop - <i>Ant Colony Approach for a Dynamic Railway Problem</i></li> <li>• L. Diosan, D. Dumitrescu - <i>Genetic Algorithms based on Potts system</i></li> </ul> </td> </tr> </table>	<b>GridCAD workshop</b> Room 045C, Chair: Antonio Plaza <ul style="list-style-type: none"> <li>• Adrian Colesa, Teodor Pop, Iosif Ignat, Cosmin Ardelean - <i>Automatic and Reliable Distribution of Data in Grids over Globus Toolkit</i></li> <li>• Dacian Tudor, Georgiana Macariu, Vladimir Cretu - <i>A Performance Analysis on Message Passing Tools for the Grid</i></li> <li>• Rodica Potolea, Alin Suciu - <i>Finding the Optimal Read Buffer Size for Grid Applications</i></li> <li>• Alexandru Carstea, Georgiana Macariu, Marc Frincu, Dana Petcu - <i>Composing Web-based Mathematical Services</i></li> </ul>	<b>NCA workshop</b> Room 151, Chair: Daniela Zaharie <ul style="list-style-type: none"> <li>• D. Iclanzan, D. Dumitrescu - <i>Overrepresentations in Neutral GenotypePhenotype Mappings and their Applications</i></li> <li>• O. Brudaru, O. Buzatu - <i>Designing fast and accurate fuzzy approximators with Kohonen networks and genetic algorithms</i></li> <li>• D. Iclanzan, P. Fulop, D. Dumitrescu - <i>Neuro-Hill-Climber: A New Approach Towards more Intelligent Search and Optimization</i></li> <li>• P. Pop, C. Pinteaa, C. Pop - <i>Ant Colony Approach for a Dynamic Railway Problem</i></li> <li>• L. Diosan, D. Dumitrescu - <i>Genetic Algorithms based on Potts system</i></li> </ul>
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17:00-19:00	Trip to the Recas wine cellars		

Saturday, September 29	
9:00-9:50	<b>Invited talk.</b> Room:045C, chair: Viorel Negru <i>Tetsuo Ida - Scorum: Web Services System for Symbolic Computation</i>
9:50-10:10	Coffee break
10:10-11:50	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Main track: <b>Data mining</b> Room: 045C, Chair: Tetsuo Ida</p> <ul style="list-style-type: none"> <li>• L. State, C. Cocianu, P. Vlamos, D. Constantin – <i>Principal Direction Based Algorithm for Classification Tasks</i></li> <li>• I. Iancu, M. Gabrovanu, M. Cosulschi, N. Constantinescu - <i>Implication-Based Support Measures for Fuzzy Association Rules</i></li> <li>• M. Balta, V. Felea - <i>Using Shannon Entropy in ETL Processes</i></li> <li>• Z. Minier, Z. Bodo, L. Csato - <i>Wikipedia-based Kernels for Text Categorization</i></li> <li>• V. Felea, M. Balta – <i>On Equivalence Queries Using Views</i></li> </ul> </div> <div style="width: 48%;"> <p><b>RTES workshop</b> Room: 151, Chair: Stefan Andrei</p> <ul style="list-style-type: none"> <li>• Flavius Gruian and Mark Westmijze - <i>BluEJAMM: A Bluespec Embedded Java Architecture with Memory Management</i></li> <li>• Nilam Chand, Bindiya Mansharamani, Rafael Romero, Will Beazley, and Stefan Andrei - <i>PEARLS: An Integrated Environment for Task Scheduling</i></li> <li>• Stefan Andrei and Samarjit Chakraborty - <i>Path-Constrained Relaxed Schedulability Analysis</i></li> </ul> </div> </div>
12:00-14:00	Lunch
14:00-15:40	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Main track: <b>Formal Verification and Security</b> Room: 045C, Chair: Dorel Lucanu</p> <ul style="list-style-type: none"> <li>• Sorin Iftene, Manuela Grindei - <i>Weighted Threshold RSA Based on the Chinese Remainder Theorem</i></li> <li>• Bogdan Groza - <i>An extension of the RSA trapdoor in a KEM/DEM framework</i></li> <li>• Raluca Lefticaru, Florentin Ipate - <i>Automatic State-Based Test Generation Using Genetic Algorithms</i></li> <li>• Stefan Andrei, Gabriel Manolache, Roland Yap, Victor Felea - <i>Approximate Satisfiability Counting</i></li> <li>• Cristina Mindruta - <i>On a Metamodel for the Type System of Complex Computing Systems</i></li> </ul> </div> <div style="width: 48%;"> <p><b>GridCAD workshop</b> Room: 151, Chair: Dana Petcu</p> <ul style="list-style-type: none"> <li>• Alexandru Imbroane, Cornelia Melenti, Dorian Gorgan - <i>Mineral Explorations with Landsat Images Ratios</i></li> <li>• Anca Radu, Victor Bacu, Dorian Gorgan - <i>Diagrammatic Description of Satellite Image Processing Workflow</i></li> <li>• Marton Kinga, Colesa Adrian - <i>GLinda – Grid-based Distributed Linda System</i></li> <li>• Claudiu Gruia, Florin Pop, Valentin Cristea - <i>A Distributed Algorithm for Multispectral Image Segmentation</i></li> <li>• Sergiu Dumitriu, Sabin Corneliu Buraga - <i>Peer to Peer Wikis: Efficient Methods for Replicating Highly Dynamic Content</i></li> </ul> </div> </div>
15:40-16:00	Coffee break
16:00-17:00	<p>Main track: <b>Image and text processing</b> Room: 045C, Chair: Vladimir Gorodetsky</p> <ul style="list-style-type: none"> <li>• Monica Radulescu, Felicia Ionescu - <i>Image-adaptive watermarking using JSEG segmentation technique</i></li> <li>• Anca Loredana Ion, Liana Stanescu, Dan Burdescu - <i>Semantic Categorization and Retrieval of Images</i></li> <li>• Adrian Iftene, Alexandra Balahur-Dobrescu, Daniel Matei - <i>A Distributed Architecture System for Recognizing Textual Entailment</i></li> </ul>
17:00	<b>Closing</b>