

# Joint Program

## Bucharest, Romania, April 20-22, 2010

\* EUROPEAN COMPUTING CONFERENCE (ECC '10)

\* COMPUTATIONAL INTELLIGENCE (CI '10)

(Includes the Workshop: SIMULATION AND MODELLING OF INTELLIGENT MATERIALS)

\* FINITE DIFFERENCES - FINITE ELEMENTS - FINITE VOLUMES - BOUNDARY ELEMENTS (F-and-B '10)

\* ENERGY AND ENVIRONMENT TECHNOLOGIES AND EQUIPMENT (EEETE '10)

\* RISK MANAGEMENT, ASSESSMENT AND MITIGATION (RIMA'10)

### COMPUTATIONAL INTELLIGENCE (CI '10)

**1st Day, Thursday April 20, 2010**

**Registration: 08:00-09:00**

**WELCOME SPEECH: 09:00-09:30, Room CD 008**

**PLENARY LECTURER: 9, 30-10,00, Room CD 008**

**Plenary Lecture 1:**



[AI Tools for Speech Analysis](#)

by [Prof. Horia-Nicolai Teodorescu](#), Gheorghe Asachi Technical University of Iasi and Institute for Computer Science, Romanian Academy, ROMANIA.

**Plenary Lecture 2:**



[Seismic Risk and Urban Planning](#)  
by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

## **CONFERENCE ROOM CB 109': 10-11.30**

### **CI OPENING PLENARY SPEACHES**

#### **Plenary Lecture 1:**



[The Blocking Meta-Heuristics for Combinatorial Problems Solving](#)  
by [Prof. Zurab Bosikashvili](#), Georgian Technical University, GEORGIA.

#### **Plenary Lecture 2:**



[Fuzzy Type Set-Valued Integrals](#)  
by [Prof. Anca Croitoru](#), "Al.I. Cuza" University of Iasi, ROMANIA.

**Coffee Break: 11.30-12.00**

## **CONFERENCE ROOM CB 109: 12-13.30**

### **CI CIA**

## Chair: Marius Constantin POPESCU

About Conceptual Model of the Test Control Problem	Zurab Bosikashvili, David Kapanadze, Taliko Zhvania	634-135
A Takagi-Sugeno Type Controller for Mobile Robot Navigation	Ion Iancu, Mihaela Colhon, Mihai Dupac	634-122
Simulation Software for Transient, Multidimensional Heat Conduction	Sorin Ratiu, Gabriel Nicolae Popa, Ana Josan, Vasile Alexa	634-322
Modeling and Simulation of a Positioning-Fastening-Adjusting Device for Laser $\mu$ -Machining CNC System	Mihaiela Iliescu, Dragos Dumitrescu, Gabriel Velea	634-326
Optimal Sequencing of Orders in the Cases of the Single and Multiple Working-Places	Tamar Lominadze, Medea Tevdoradze, Nino Tsiklauri	634-119
Simulated Annealing based VLSI Circuit Partitioning for Delay Minimization	S. S. Gill, B. Aneja, R. Chandel, A. Chandel	634-171

**Lunch Break: 13.30-15.00**

## CONFERENCE ROOM CB 109': 15.00-18.00

### CI CIA

## Chair: Gheorghe LAZAROIU

Widening of 10NiCr180 Stainless Steel – Process Simulation and Cutting Torque Mathematical Models	Mihaiela Iliescu, Aurelian Vlase, Emil Militaru	634-328
Optimized Parallelization Heuristic for Task Scheduling	Waheed Aslam Ghumman, Pedro Lopez-Garcia	634-369
A Hybrid ANN-Based Technique for Signature Verification	Ashraf A. Zaher, Abdalnasser Abu-Rezq	634-102
About Unified Model of Safety of Information Systems	Zurab Bosikashvili, David Kapanadze, Taliko Zhvania	634-134
A Linear Ultrasonic Motor for Positioning Stages	Delia Garleanu, Claudia Borda, Mihaiela Iliescu, Delicia Arsene, Gabriel Garleanu	634-324
Segmentation of Industrial X-ray Images	Catalin Gheorghe Amza, Gabriel Tasca	634-150
Stochastic Optimization Algorithm with Probability Vector	Jan Pohl, Vaclav Jirsik, Petr Honzik	634-139
Fuzzy Control for Pumps Drivings	Marius-Constantin Popescu, Mircea Grigoriu, Nikos Mastorakis	634-492

**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 109': 18.30-20.00**

**CJ CIA**

**Chair: Horia NECULA**

A Fuzzy Logic Based System for Heavy Metals Loaded Wastewaters Monitoring	Daniel Dunea, Mihaela Oprea	634-141
Cognitive Binary Logic - The Natural Unified Formal Theory of Propositional Binary Logic	Nicolaie Popescu-Bodorin, Luminita State	634-404
Fuzzy Diffused Set Multifunctions	Alina Gavrilut, Anca Croitoru, Nikos E. Mastorakis	634-490
Intelligent Buildings Energy Supply Following Climate Parameters Variation Fuzzy Control	Mircea Grigoriu, Marius Constantin Popescu	634-409
New Representation of Data in the Information Processing Systems	Jina Gachechiladze	634-374
Two-Dimensional Cellular Automata Synchronizers	Hiroshi Umeo	634-344
Non-Atomic Set Multifunctions	Alina Gavrilut	634-227

**2nd Day, Wednesday April 21, 2010**

**CONFERENCE ROOM CB 209': 8.00-11.00**

**CJ EC/FS/NN**

**Chair: Dan DOBROTA**

A Simulation-Based Fuzzy Model for Traffic Signal Control	Yaser E. Hawas	634-348
Interoperability and Ontology for Heterogeneous Systems	Michal Sir, Petr Fiedler, Vaclav Kaczmarczyk	634-194
Integrating Neural Networks and PCA for Fast Covert Surveillance	Hazem M. El-Bakry, Mamoon H. Mamoon	634-523
Fuzzy Integrability of Multifunctions	Anca Croitoru	634-292

The Blocking Meta-Heuristics for Combinatorial Problems Solving	Zurab Bosikashvili	634-117
Analysis and Optimization of Automatic Systems using PID and LQR	Paul Ciprian Patic, Luminita Duta	634-198

### **3rd Day, Thursday April 21, 2010**

#### **CONFERENCE ROOM CB 109': 8.00-11.00**

**CI RESERVE**

**Chair: Catalin AMZA**

**Coffee Break: 11.00-11.30**

#### **CONFERENCE ROOM CB 109': 11.30-13.30**

**CI RESERVE**

**Chair: Catalin AMZA**

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### EUROPEAN COMPUTING CONFERENCE (ECC '10)

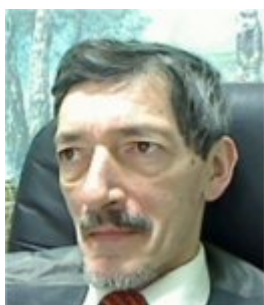
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[AI Tools for Speech Analysis](#)

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**Plenary Lecture 2:**



[Seismic Risk and Urban Planning](#)  
by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

## **CONFERENCE ROOM CB 209': 10-11.30**

### **ECC OPENING PLENARY SPEACHES**

#### **Plenary Lecture 1:**



[Computer-Aided Process Planning and Scheduling Software for Make-to-Order Manufacturing of Machined Parts](#)  
by [Dr. Madalin Catana](#), University POLITEHNICA of Bucharest, ROMANIA.

#### **Plenary Lecture 2:**



[Statecharts Disentangled](#)  
by [Prof. Albert Hoogewijs](#), Ghent University, BELGIUM

**Coffee Break: 11.30-12.00**

## **CONFERENCE ROOM CB 209': 12-13.30**

### **ECC CIRCUITS**

**Chair: Aida Cornelia BULUCEA**

Mathematical Modeling and Analysis of a Vehicle Crash	Witold Pawlus, Jan Eivind Nielsen, Hamid Reza Karimi, Kjell G. Robbersmyr	634-380
Competency-based E-assessment in Project Management and Firm Performance: A Case Study	Constanta Nicoleta Bodea, Maria Dascalu	634-204
Numerical Simulation of Pollutants Dispersion in Storage Lakes	Mircea Grigoriu, Liviu-valentin Balanescu, Dan Victor Cavaropol	634-266
Contribution to the Implementation of the e-Infrastructure Concept at the National Level	Gabriel Neagu, Alexandru Stanciu	634-342
Modelling of Water Turbulent Flow in a Elipsocyclonic Nozzle	Mircea Grigoriu, Lucian Burlacu, Dan Victor Cavaropol	634-265
Formal Verification of Secure Ad Hoc Routing Protocols using AVISPA: ARAN Case Study	Mihai-Lica Pura, Victor-Valeriu Patriciu, Ion Bica	634-397
A Model of Product Personality	Andrei Dumitrescu	634-217
Wavelet-Based Signal Analysis of a Vehicle Crash Test With a Fixed Safety Barrier	Hamid Reza Karimi, Kjell G. Robbersmyr	634-367
Current Trends in Product Development	Mihaela Lupeanu, Corneliu Neagu, Alina Neacsu	634-218

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CB 209': 15.00-18.00**

**ECC COMPUTERS**

**Chair: Aida Cornelia BULUCEA**

GHSOM-Based Web Service Discovery	Florie Ismaili, Bogdan Shishedjiev, Xhemal Zenuni, Bujar Raufi	634-399
Text Analytics as a Form of Knowledge Mining	Zeljko Panian	634-258
Web Page Analysis Based on HTML DOM and Its Usage for Forum Statistics and Alerts	Robert Gyorodi, Cornelia Gyorodi, George Pecherle, George Mihai Cornea	634-402
Pressure Adjusting Algorithm Command for a Chamber	Marius-Constantin Popescu, Mircea Grigoriu	634-238
Centralized Control System for Entry into Buildings	Marius-Constantin Popescu, Mircea Grigoriu	634-237
On an Optimal Parametric Iteration Method for Thin Film Flow	Vasile Marinca, Nicolae Herisanu, Dumitru Bala	634-149



**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 209': 18.30-20.00**

**ECC COMPUTERS**

**Chair: Aida Cornelia BULUCEA**

Statecharts Disentangled	Benjamin De Leeuw, Albert Hoogewijs	634-164
AI Tools for Speech Analysis Applied to the Romanian Language	Horia-Nicolai Teodorescu	634-527
Blind Equalization based on Information Theoretic Learning for Impulsive Noise Environments	Namyong Kim, Hyung-Gi Byun	634-181
Just-In-Time Planning and Scheduling of Machining Operations on Parts: An Illustrative Case Study	Madalin Catana	634-214
Modelling the Transport Phenomenon Involved in the Fusion-Welded	Ioan Sorin Leoveanu, Daniel Taus	634-179
Prediction Error Feedback for Time Series Prediction: A Way to Improve the Accuracy of Predictions	Ryad Zemouri, Paul Ciprian Patric	634-178

**2nd Day, Wednesday April 21, 2010**

**CONFERENCE ROOM CB 109': 8.00-11.00**

**ECC COMPUTERS**

**Chair: Gabriela DOBROTA**

Using Program Specific Search Operators in Test Data Generation	Mohammad Alshraideh	634-323
Fully Automated and Hidden System for Wiping Sensitive Data	George Pecherle, Cornelia Gyorodi, Robert Gyorodi, Bogdan Andronic	634-372
Symbolic Equation using Modified Nodal Analysis for Linear Electrical Circuit using Matlab	Zoltan Erdei, Luiza Alexandra Dicso, Liviu Neamt, Oliver Chiver	634-196

XML Authoring Tool	Mihai Teohari, Copcea Larisa	634-336
Comparative Study on Applicability of Two Novel Effort Estimation Models in Web Projects	Ljubomir Lazic, Nikos E. Mastorakis	634-363
The Accessibility of Information in Computer Assisted Learning Process for Persons with Disabilities	Narcisa Isaila, Ion Smeureanu	634-327
Nonholonomic Geometry of Economic Systems	Constantin Udriste, Massimiliano Ferrara, Dorel Zugravescu, Florin Munteanu	634-364
The Usage of a Software to Process the SF-36 Data	Ion Moleavin, Cristina-Elena Dobrescu	634-366
Evaluation of Form Deviations using Genetic Algorithms: Circularity Problem	Daniel-Silviu Manolache	634-270

**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CB 109': 11.30-13.00**

**ECC COMPUTING**

**Chair: Gabriela DOBROTA**

Stochastic Timed Automata Simulator	Vaclav Kaczmarczyk, Michal Sir, Zdenek Bradac	634-173
Hybrid Expert System Shell	Petr Polach, Jan Valenta, Vaclav Jirsik	634-337
Using Smart Cards and X.509 Digital Certificates for a Student Management Information System at the University of Prishtina	Blerim Rexha, Haxhi Lajqi, Myzafere Limani	634-126
Natural Language Processing for Rapid Information	Maria Moise, Ciprian Gheorghe, Marilena Zingale	634-480
A Multi - Agent Based Architecture to Qualitative Temporal Constraint Reasoning	Tahar Guerram, Ramdane Maamri, Zaidi Sahnoun	634-486
Geographical Information System Module for Deriving the Flash Flood Hydrograph in Mountainous Areas	Matei Domnita, Augustin Ionut Craciun, Ionel Haidu, Saska-Zsolt Magyari	634-494
Using Java in Business Applications	Danut-Octavian Simion	634-417

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CB 209': 15.30-18.00**

**ECC COMPUTING**

**Chair: Catalin AMZA**

Solutions for Traffic Lights Intersections Control	Marius Constantin Popescu, Constantin Ranea, Mircea Grigoriu, Marius-Constantin Popescu, Constantin Ranea	634-479
Thermo Process Monitoring Bars Medium Voltage under Short-Circuit Regim	Cristinel Popescu, Marius-Constantin Popescu, Constantin Ranea	634-505
Nonlinear Command Simulation for Pump Functioning Powered by Electrical Drives	Marius-Constantin Popescu, Mircea Grigoriu	634-483
CELICA: A Multi-Agent Communication System for Electronic Commerce	Cristea Boboila, Nicolae Constantinescu	634-115
A Solution for Secure SIP Conferencing over IMS and SAE	Cristina-Elena Vintila	634-423
Absence of Eigenvalues for Integro-Differential Operators	Marius-Marinel Stanescu, Dumitru Bolcu, Sabin Rizescu, Paul Rinderu	634-111

**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 209': 18.30-20.00**

**ECC COMPUTING**

**Chair: Catalin AMZA**


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**CONFERENCE ROOM CB 109': 15.30-18.00**

**ECC COMPUTERS**

**Chair: Elena Cristina RAGAZZI**


**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 109': 18.30-20.00**

**ECC COMPUTING**

**Chair: Elena Cristina RAGAZZI**



**3rd Day, Thursday April 21, 2010**

**CONFERENCE ROOM CB 209: 8.00-11.00**

**F-B RESERVE**

**Chair: Gabriel GARLEANU**

**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CB 209: 11.30-13.30**

**F-B RESERVE**

**Chair: Gabriel GARLEANU**

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### ENERGY AND ENVIRONMENT TECHNOLOGIES AND EQUIPMENT (EEETE '10)

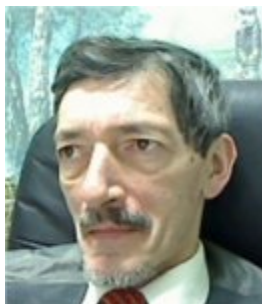
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## Plenary Lecture 2:



[Seismic Risk and Urban Planning](#)

by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

## CONFERENCE ROOM CB 001': 10-11.30

### CI OPENING PLENARY SPEACHES

## Plenary Lecture 1:



[An Overview of How to Make Properly Harmonics Distortions Measurements in Medium Voltage Distribution System](#)

by [Prof. Liviu E. Petrean](#), North University of Baia Mare, ROMANIA.

## Plenary Lecture 2:



[The Use of Iron Oxide Nanostructures for Arsenic Removal from Drinking Water](#)

by [Dr. Arturo I. Martinez](#), Center for Research and Advanced Studies of the National Polytechnic Institute at Saltillo, MEXICO.

## Plenary Lecture 3:



[Criteria for the Performance Improvement of the Hydro Energetic Investments](#)

by **Dr. Alexandru Viorel Popescu**, Hydro Division of S.C. ENERGOMONTAJ S.A., ROMANIA.

**Coffee Break: 11.30-12.00**

**CONFERENCE ROOM CB 001: 12-13.30**

**EEETE EQUIPMENTS**

**Chair: Horia NECULA**

The Stability of Operating Parameters for Fire-Extinguishing Rocket Motor	Teodor-Viorel Chelaru, Cristina Mihailescu, Ion Neagu, Marius Radulescu	634-468
Wind Based Generated Electricity Regulation Frame	Cornel Panait, George Caruntu, Mircea Grigoriu	634-458
Double-Cross Wind Turbine for Low Wind Velocities	Ioana Corina Mandis, Dan Nicolae Robescu, Mircea Grigoriu, Valentin Silivestru, Corneliu Alexandru Mandis	634-457
Environment Protection by Reducing Pollutant Emissions	Manuela Elena Georgescu, Marius-Constantin Popescu, Mircea Grigoriu	634-473
The Influence of Phase Transposing on Double Circuit Overhead Power Line Magnetic Field	Liviu Neamt, Liviu Emil Petrean, Olivian Chiver, Zoltan Erdei	634-177
Installations Automation of a Thermal Power Plant	Mircea Grigoriu, Marius Constantin Popescu, Manuela Elena Georgescu	634-455
Urban Thermal Energy Efficiency Economic and Climate Impact	Manfred Oesterle, Mircea Grigoriu, Marjan Silovitz, Liviu Gheorghiu	634-454
Modern Techniques for Humidity Measurement	George Caruntu, Cornel Panait, Ovidiu Dragomirescu	634-420

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CB 001': 15.00-18.00**



## **EEETE ENERGY**

### **Chair: Tiberiu DOBRESCU**

System Tuning Flow of SO <sub>2</sub>	Marius-Constantin Popescu, Mircea Grigoriu, Constantin Ranea, Popescu Jean-Octavian	634-476
Aspects of Voltage Dips, Causes of Production and Their Effect on Consumers	Mircea Horgos, Liviu E. Petrean, Attila Buchman, Liviu Neamt	634-182
Particularities of the Convective Heat Transfer Process for a Phase Change Material Slurry	Bogdan Diaconu, Mihai Cruceru	634-370
The Integrated Analysis of Afterburning in Cogeneration Power Plant	Barbu Ene, Ionescu Silviu, Vilcu Constantin, Prisecaru Tudor, Petcu Romulus, Vilag Valeriu	634-172
Intelligent Micro Hydropower Energy Supplier	Mircea Grigoriu, Marius-Constantin Popescu	634-506
Theoretical and Experimental Contributions on Environmental Pollution Using the Manual Arc Welding and Electrode	Gheorghe Amza, Dan Pica, Corneliu Rontescu, Dumitru Titi Cicic, Zoia Apostolescu, Mihaela Parvulescu	634-245
Theoretical and Experimental Contributions on Environmental Pollution Through Environmental Processes Gas Protective Welding GMAW	Gheorghe Amza, Dan Pica, Dumitru Titi Cicic, Corneliu Rontescu, Zoia Apostolescu, Mihaela Parvulescu	634-246
Implementation Opportunity of an Industrial Waste Incinerator	Roxana Patrascu, Eduard Minciuc, Ioana Diaconescu, George Darie	634-249
Infrared Thermography to Assess Impacted Pipes	Alexandrina Mihai, Nicolae Constantin, Florin Stefanescu, Gigel Neagu, Gabriel Tasca	634-252
Correlation Between Measured and Calculated Solar Radiation Data in Compiègne, France	E. Antaluca, L. Merino, B. Beckers	634-261
Heating Pumps Using New Developments	Marius-Constantin Popescu, Mircea Grigoriu	634-484

**Coffee Break: 18.00-18.30**

## **CONFERENCE ROOM CB 001': 18.30-20.00**

## **EEETE ENERGY**

### **Chair: Tiberiu DOBRESCU**

Pumping Station Automatic Monitoring System	Marius-Constantin Popescu, Mircea Grigoriu	634-509
Evaluation of Load Generated Harmonics on Low Voltage Networks	Attila Buchman, Claudiu Lung, Mircea Horgos, Alin Tisan, Stefan Oniga	634-183

The use of the graphical-analytical models to determine the methods and the technologies of execution of the underground mining works when the set of natural conditions of digging are known	Nicolae Dobritoiu, Ana-Maria Dobritoiu	634-197
Research Regarding Ultrasonic Examination of Intelligent Composite Materials	Gheorghe Amza, Gabriel Dan Tasca, Catalin Gheorghe Amza, Mihai Balaceanu	634-300
Modeling the Phenomenon of Air Recirculation in the Case of Certain Heat Releases	Marius-Constantin Popescu, Mircea Grigoriu, Manuela Elena Georgescu, Jean-Octavian Popescu	634-487
Optimizing the Functioning of Air Condition Equipment	Mircea Grigoriu, Marius-Constantin Popescu, Jean-Octavian Popescu	634-474
Decentralized Energy Generation by Cogeneration	Mircea Grigoriu, Marius-Constantin Popescu	634-485
Phase Change Material (PCM) Composite Insulating Panel with High Thermal Efficiency	Bogdan Diaconu, Mihai Cruceru	634-371

## **CONFERENCE ROOM CB 110': 18.30-20.00**

### **EEETE ENVIRONMENT**

#### **Chair: Gabriel JIGA**

Sustainable Development Strategy – the Key of Environmental and Organizational Management	Gabriela Popa, Ion Stegaroiu, Valentina-Ofelia Robescu, Ionut Barbu, Valentin Ilie	634-262
Evaluation of Fossil Fuel Power Plants with CO2 Recovery	Adrian Badea, Cristian Dinca, Tiberiu Apostol	634-450
Optimizing Operation of Hydro-Pneumatic Machineries	Mircea Grigoriu, Marius-Constantin Popescu	634-408
The Numerical and Experimental Comparison of the NO Emissions for two Types of Natural Gas Burners	Cleopatra Cuciumita, Ene Barbu, Silviu Ionescu, Tudor Prisecaru, Valeriu Vilag, Constantin Vilcu	634-169
Power and Energy Production from Waste and Biomass	Manuela Elena Georgescu, Marius-Constantin Popescu, Mircea Grigoriu	634-448
Wind Turbine Testing Control System	Marius Constantin Popescu, Mircea Grigoriu, Doina Cornelia Dinu	634-452
Optimal Design of a Wind Propeller Rotor	Mircea Grigoriu, Marius-Constantin Popescu, Nikos Mastorakis	634-491
Unsafe Chromium and its Environmental Health Effects of Orissa Chromite Mines	Vijayan Gurumurthy Iyer, Nikos E. Mastorakis	634-403

**2nd Day, Wednesday April 21, 2010**

**CONFERENCE ROOM CB 001': 8.00-11.00**

**EEETE ENVIRONMENT**

**Chair: Mihai CRUCERU**

Uses of Matlab Software to Size Intrinsic Safety Barriers of the Electric Equipment Intended for Use in Atmospheres with Explosion Hazard	Pasulescu Dragos, Niculescu Titu, Pana Leon	634-138
Optimal Flow Control of a Tank	Mircea Grigoriu, Marius-Constantin Popescu, Valentina Balas	634-407
Study Regarding End Winding Inductance of Three Phase A.C. Windings in a Single Layer	Olivian Chiver, Liviu Petrean, Liviu Neamt, Zoltan Erdei	634-168
Power Transformers Reliability Estimation Study	Cristinel Popescu, Mircea Grigoriu, Marius-Constantin Popescu, Luminita Georgeta Popescu, Constantina Liliana Grofu	634-422
Magnetic Micro Sensors with High Resolution Capacity	Panait Cornel, George Caruntu, Dumitrascu Ana	634-410
Control Systems for Solar Energy Conversion	Mircea Grigoriu, Marius-Constantin Popescu, Valentina Balas, Doina Cornelia Dinu	634-406

**Coffee Break: 11.00-11.30**

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CB 209': 15.00-18.00**

**EEETE ENVIRONMENT**

**Chair: Claudia BORDA**

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**Coffee Break: 18.30-20.00**

**CONFERENCE ROOM CB 001': 15.00-18.00**

**EEETE ENERGY**

**Chair: Claudia BORDA**



**CONFERENCE ROOM CB 110: 18.30-20.00**

**EEETE ENVIRONMENT**

**Chair: Cristinel POPESCU**


**3rd Day, Thursday April 21, 2010**

**CONFERENCE ROOM CB 001: 8.00-11.00**

**EEETE RESERVE**

**Chair: Claudia BORDA**

**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CB 001: 11.30-13.30**

**EEETE RESERVE**

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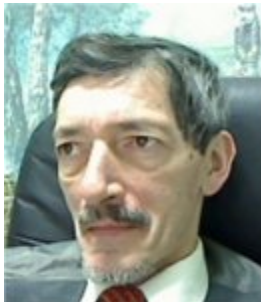
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## Plenary Lecture 2:



[Seismic Risk and Urban Planning](#)  
by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

## CONFERENCE ROOM CB 213': 10-11.30

### F-B OPENING PLENARY SPEACHES

## Plenary Lecture 1:



[Advanced Algorithms for Numerical Simulation of Coupled Engineering Problems](#)  
by [Assoc. Prof. Ion Carstea](#), University of Craiova, ROMANIA.

## Plenary Lecture 2:



[Experimental Research Aimed at Promoting Railway Vehicle Prototypes to Railroad Travel](#)  
by [Prof. Ion Copaci](#), "Aurel Vlaicu" University, ROMANIA.

## Plenary Lecture 3:



[Accurate Element Method Methodology for Finding and Controlling the Quasi-Analytic Solutions of First-Order Partial Differential Equations with Variable Coefficients](#)  
by **Prof. Maty Blumenfeld**, Politehnica University Bucharest, ROMANIA.

**Coffee Break: 11.30-12.00**



## **CONFERENCE ROOM CB 213': 12-13.30**

### **F-B APLICATIONS**

**Chair: Marius Constantin POPESCU**

A Hydrostatic extrusion procedure for industrial use	Marcel Plesca,Zoia Apostolescu,Marilena Stanculescu,Gabriel Vaduva	634-285
Thermal conductivity modeling of building facade materials	Monica Chereches, Nelu-Cristian Chereches, Catalin Popovici	634-114
Numerical Simulation of Fluid Flow and Heat Transfer in a Water Heater	Mircea Nicoara, Aurel Raduta, Laurentiu Roland Cucuruz, Cosmin Locovei	634-201
Numerical simulation of the large power cables using the finite element method	Daniela Carstea	634-273
Contributions of ultrasonic finishing process modeling lens of optical devices using finite elements analysis	Gheorghe Amza, Georgiana Dumitrescu,Valentin Petrescu	634-254
can functional electrical stimulation for pressure ulcer prevention reduce efficiently the Incidence of deep-tissue injury?	Dohyung Lim, Keyoung Jin Chun	634-489
Silica optical fibre lifetime evaluation	Severin Irina,Amza Gheorghe,Poulain Marcel, Rochdi El Abdi	634-294
Unsteady Rotor-Stator Interaction in a Low Pressure Centrifugal Compressor	Mihai Leonida Niculescu, Sterian Danaila	634-298
Computer-aided analysis of the heat transfer in skin tissue	Florin Filipoiu, Andrei Ioan Bogdan, Iulia Maria Carstea	634-120
Research about correlation between the performance of plate heat exchanger and the number of plates	Roxana Grigore, Sorin Popa, Aneta Hazi, Gheorghe Hazi	634-195

**Lunch Break: 13.30-15.00**

## **CONFERENCE ROOM CB 213': 15.00-18.00**

### **F-B APLICATIONS**

**Chair: Gabriel DUMITRU**

Research regarding the finite element modeling of an ultrasonic horn used in a cutting process	Constantin Radu; Catalin Gheorghe Amza	634-271
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Contributions regarding the modeling with finite elements an ultraacoustic system for ultrasonic cleaning	Gheorghe Amza, Larisa Butu, Marinela Marinescu, Claudia Borda, Oana Elena Amza	634-228
Ultrathin wiredrawing force	Marcel Plesca, Zoia Apostolescu, Marilena Stanculescu, Mircea Grigoriu	634-236
Study on the Elastic Elements that Equip the Bogies of Freight Railway Cars	Bogdan Tanasoiu, Aurelia Tanasoiu, Ion Copaci	634-105
On the Resistance of Tank Wagons to the Shock Caused by Collision	Ion Copaci, Aurelia Tanasoiu, Bogdan Tanasoiu	634-106
Risk and Factor Analysis	Gheorghe Amza, Adrian Paris, Constantin Tarcolea, Victor Carp, Horia Nimigean	634-239
Finite element simulation of the vibration modes for the piezoceramic plates used in ultrasonic motors	Gheorghe Amza, Dan Nitoi, Dan Dumitru Popescu, Mircea Dobre	634-241
Researches Regarding the Modeling Using the Finite Method Analysis of an Ultraacoustic System Used at Ultrasound Welding of Automotive Signal Lamps	Gheorghe Amza, Cornelia Luchian, Victor Popovici, Florea Dumitrache	634-243
Research regarding the ultrasound welding process modeling for wires and thins foils on plates	Gheorghe Amza, Veronica Achim, Simona Vintila (Mihail), Horia Nimigean	634-256
Concept modelling of automotive beams, joints and panels	Domenico Mundo Stijn Donders Rabah Hadjit Giambattista Stigliano Peter Mas Herman Vanderauwaer	634-107
Computational aspects in numerical simulation of skin tissues	Iulia Maria Carstea, Ion Carstea	634-108
Theoretical and experimental contributions on modeling a system ultraacoustic	Gheorgha Amza, Zoia Apostolescu, Gabriel Marius Dumitru, Valentin Petrescu	634-223

**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 213': 18.30-20.00**

**F-B APLICATIONS**

**Chair: Gabriel DUMITRU**

Research on ultrasonic non-destructive examination in water immersion of a composite material	Gheorghe Amza, Simona (Mihail) Vintila, Veronica Achim, Elena Oana Amza	634-233
Modeling by finite element method "Blind Hole Drilling" method	Gabriel GÂRLEANU, Victor POPOVICI, Delia GÂRLEANU, Delicia ARSENE	634-163
Contributions regarding FEM for an ultrasonic endodontic device and his appliance in the root canal treatments	Gheorghe Amza, Roxana Yolanda Onea, Oana Elena Amza, Victor Carp	634-253
FEM of the maxilar bone-implant system	Gheorghe Amza, Dan Nitoi, Oana Elena Amza, Roxana Yolanda Onea	634-255

From clinical knowledge to mathematical modelling	Daniela Carstea, Ion Carstea, Iulia Maria Carstea	634-257
Finite Element Modelling and Analysis of Transducer	Radu Constantin, Amza Gheorghe, Petrescu Valentin	634-224
A database framework for industrial vehicle body concept modelling	Domenico Mundo Antonio Maressa Nicola Rizzo Stijn Donders Wim Desmet	634-170

## **2nd Day, Wednesday April 21, 2010**

### **CONFERENCE ROOM CB 213': 8.00-11.00**

#### **F-B FS/FE/FV/**

#### **Chair: Gabriel JIGA**

Flow dynamics in a double-skin facade	Dan Ospir, Cristian Chereches, Catalin Popa, Stephane Fohanno, Catalin Popovici	634-123
Using finite element method in geotechnical design. Comparison between soil constitutive laws and case study	Horatiu Popa, Loretta Batali	634-320
Tensometric captor to determine the residual stress and calibration of the finite element method	Victor POPOVICI, Delia GÂRLEANU, Gabriel GÂRLEANU, Mihaiela ILIESCU	634-162
Experimental research regarding the ultrasonic welding process of piezoceramic disks and thermosetting materials	Amza Gheorghe, Balaceanu Mihai, Tasca Gabriel Dan, Amza Catalin Gheorghe	634-302
Researches Regarding Hot Plastic Deformation of Ultrasonic Concentrator Energy used for stomatology attendance	Amza Gheorghe, Dumitrache Rujinski Alexandru, Oana Elena Radocea, Apostolescu Zoia	634-347
Spectral Method for Solving Integral-Differential Equations with an Integral Condition	Nikos Mastorakis, Olga Martin	634-378
Researches regarding the influence of ultrasounds applications on the mechanic characteristics of conveyor belts vulcanization joints	Dan Dobrota, Gheorgha Amza, Mihaela Parvulescu, Dan Dumitru Popescu	634-221
Researches regarding the influence on ultrasounds on tyres backing off technological process of conveyor belts vulcanization joints	Gheorgha Amza, Dan Dobrota, Gabriel Vaduva, Zoia Apostolescu	634-222
Complete modeling of rotary ultrasonic motors actuated miniature piezopump	Amza Gheorghe, Borda Claudia, Marinescu Marinela, Butu Larisa, Ciucur Ionut	634-118
Cycling Loading Effect on a Solid Propellant Engine Performances	Adrian Arghiropol, Constantin Rotaru	634-462

strengthening of steel frame connection and finite element analysis results	Adrian Ivan, Marin Ivan, Ioan Both	634-341
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**Coffee Break: 11.00-11.30**

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CB 213': 15.30-18.00**

**F-B FS/FE/FV/**

**Chair: Adrian NICOLESCU**

Reinforcement Assessment of Welded Frames for Metallic Structures	Horia Stefan Mateiu, Alin Constantin Murariu, Adrian Ivan	634-309
Maple soft solutions for nonlifting flows over arbitrary bodies	Constantin Rotaru, Adrian Arghiropol	634-461
Numerical simulation of human thermal comfort in indoor environment	Tiberiu Spiricu, Iulia Maria Carstea, Ion Carstea	634-128
Finite Element Performance Based Evaluation of Seismically Retrofitted Masonry Buildings – Study case	Adrian Dogariu, Dan Dubina	634-396
Analysis of Fatigue Fracture of Tank Wagon Railway Axles	Cosmin Locovei, Aurel Raduta, Mircea Nicoara, Laurentiu Roland Cucuruz	634-306
analysis of a suspension crossing for a pipeline using finite element method. influence of elasticity modulus	Ioan Both, Marin Ivan, Adrian Ivan	634-332
Contributions to real-time monitoring of polymer composites processing using mechanical impedance analysis	Amza Gheorghe, Marinescu Marinela, Butu Larisa, Borda Claudia, Dobrota Dan	634-225
Postprocessor for fire analysis finite element program	Dan Pintea, Raul Zaharia	634-390
Calibration of a FE Model of Masonry Shear Panels strengthened by Metal Sheathing	Adrian Dogariu, Francesco Campitiello	634-395
Advanced algorithms for coupled problems in science and engineering	Daniela Carstea, Iulia Maria Carstea, Ion Carstea	634-133

**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CB 213': 18.30-20.00**

**F-B FS/FE/FV/**

**Chair: Adrian NICOLESCU**


**3rd Day, Thursday April 22, 2010**

**CONFERENCE ROOM CB213': 8.00-11.00**

**F-B RESERVE**

**Chair: Dan Florin NITOI**

**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CB 213': 11.30-13.30**

**F-B RESERVE**

**Chair: Dan Florin NITOI**

# Joint Program

## Bucharest, Romania, April 20-22, 2010

\* EUROPEAN COMPUTING CONFERENCE (ECC '10)

\* COMPUTATIONAL INTELLIGENCE (CI '10)

(Includes the Workshop: SIMULATION AND MODELLING OF INTELLIGENT MATERIALS)

\* FINITE DIFFERENCES - FINITE ELEMENTS - FINITE VOLUMES - BOUNDARY ELEMENTS (F-and-B '10)

\* ENERGY AND ENVIRONMENT TECHNOLOGIES AND EQUIPMENT (EEETE '10)

\* RISK MANAGEMENT, ASSESSMENT AND MITIGATION (RIMA'10)

### RISK MANAGEMENT, ASSESSMENT AND MITIGATION (RIMA'10)

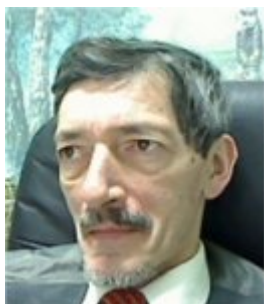
**1st Day, Thursday April 20, 2010**

**Registration: 08:00-09:00**

**WELCOME SPEECH: 09:00-09:30, Room CD 008**

**PLENARY LECTURER: 9, 30-10,00, Room CD 008**

**Plenary Lecture 1:**



[AI Tools for Speech Analysis](#)

by [Prof. Horia-Nicolai Teodorescu](#), Gheorghe Asachi Technical University of Iasi and Institute for Computer Science, Romanian Academy, ROMANIA.

## Plenary Lecture 2:



[Seismic Risk and Urban Planning](#)

by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

## CONFERENCE ROOM CD 008': 10-11.30

### RIMA OPENING PLENARY SPEACHES

## Plenary Lecture 1:



[Basic Concepts of Macroeconomic Development Marketing](#)

by [Prof. Liliana Duguleana](#), University TRANSILVANIA of Brasov, ROMANIA.

## Plenary Lecture 2:



[Emerging Microfinance Solutions for Response and Recovery in the Case of Natural Hazards](#)

by [Prof. Gabriela Prelipcean](#), University STEFAN CEL MARE of Suceava, ROMANIA.

## Plenary Lecture 3:



[Seismic Risk and Urban Planning](#)

by [Prof. Victor Gioncu](#), University POLITEHNICA of Timisoara, ROMANIA.

**Coffee Break: 11.30-12.00**

**CONFERENCE ROOM CD 008': 12-13.30**

**RIMA Assessment**

**Chair: Marius MOSOARCA**

Human Reliability Model and Application for Mine Dispatchers in Valea Jiului Coal Basin	Roland-Iosif Moraru, Gabriel-Bujor Babut, Lucian-Ionel Cioca	634-142
Physical Properties of Pozzolana Fly Ash from Thermal Power Plant of Iasi, Romania – A Cement-like Material for Substructure Works	Ancuta Rotaru, Vasile Boboc	634-319
Mechanical Properties of Pozzolana Fly Ash from Thermal Power Plant of Iasi, Romania – A Cement-like Material for Substructure Works	Vasile Boboc, Ancuta Rotaru, Andrei Boboc	634-318
The GRID Revisited: Morphogenesis of Seismically Resilient Structures at two Different Geographic Scales	Maria Bostenaru Dan	634-132
Managing the Accounting Fraud Risk for the Evolved Corporate Governance Systems	Hlaciuc Elena, Hlaciuc Ana Maria	634-447
Applications to One Creative Welfare Partnership with the Subtle Sets Theory (SST)	Dan Nicolae, Brindusa Covaci, Virginia Cucu, Maria Birzu	634-488
Cognitive-Behavioural Therapy Efficacy in Major Depression with Associated Axis II Risk Factor for Negative Prognosis	Daniel Vasile, Octavian Vasiliu	634-499

**Lunch Break: 13.30-15.00**

**CONFERENCE ROOM CD 008': 15.00-18.00**

**RIMA Assessment**

**Chair: Melania MAN**

Derivatives and Hedging Issues in Financial Reporting	Jiri Strouhal, Carmen G. Bonaci, Dumitru Matis	634-365
Risk Assessment and Mitigation in Drafting Translation Contracts	Suzana Carmen Cismas	634-512



Aspects of Innovative Process on Creative Problem Solving	A. Corabieru, S. Velicu, A. Spalanzani, P. Corabieru, D. D. Vasilescu	634-325
The Analysis of a Mathematical Model Associated to an Economic Growth Process Exposed to a Risk Factor	Olivia Bundau, Adina Juratoni	634-140
Negative Advertising in the Romanian Electoral Campaigns	Cristian-Romeo Potincu, Laura Muresan	634-381
Risk Management in International Cereal Trade	Costel Nistor, Mihaela-Carmen Muntean, Rozalia Nistor	634-333
Probability Tools During the Analysis and Evaluation of Industrial Risks Identified Inside Complex Working System	Gabriel-Dragos Vasilescu, Tiberiu-Atila Csaszar, Doru Cioclea, Stela Dinescu, Valeriu Plesea	634-186
Marketing, Sustainable Development, Social Responsibility: A Possible Doctrinarian Research	Micu Adrian, Cristache Nicoleta, Irina Susanu, Alexandru Capatina	634-340
Ecological Responsibility, Component of the Corporate Social Responsibility	Laura Muresan, Cristian-Romeo Potincu, Mihai Duguleana	634-382
Risk Assessment in Public Private Partnerships (PPP) for Infrastructure in the Recovery after the Global Crisis	Prelipcean Gabriela, Boscoianu Mircea	634-460
Marketing a Web-Site using a Fuzzy Logic Approach	Ioan Constantin Enache	634-386

**Coffee Break: 18.00-18.30**

**CONFERENCE ROOM CD 008': 18.30-20.00**

**RIMA Assessment**

**Chair: Marius MOSOARCA**

Mechanized Underground Coal Mining to Increase Safety and Productivity	Nicolae Ilias, Ianas Andras, Sorin Radu, Adrian Petrar, Marcel Hoara, George Teseleanu	634-226
Testing SERVQUAL Dimensions on the Romanian Banking Sector	Dan Micuda, Gheorghe Cruceru	634-385
The European Auto Market under the Impact of the Financial Crisis: Lessons to be Learned	Gheorghe Cruceru, Dan Micuda	634-384
Basic Concepts of Macroeconomic Development Marketing	Liliana Duguleana, Constantin Duguleana	634-219
Occupational Risk Assessment: A Framework for Understanding and Practical Guiding the Process in Romania	Lucian-Ionel Cioca, Roland-Iosif Moraru, Gabriel-Bujor Babut	634-147
Energy Risk Management	Constantin Opran	634-398

Analysis the Impact of Enterprise Resource Planning Systems on Organizational Effectiveness	Amin Amid, Mehdil Bagheri, Saeed Ggasrodashti	634-346
Emerging Microfinance Solutions for Response and Recovery in the Case of Natural Hazards	Gabriela Prelipcean	634-345

## **CONFERENCE ROOM CB 110': 12.00-13.30**

### **RIMA MITTIGATION**

**Chair: Sanda OSICEANU**

A New Approach for Roads Vulnerability Assessment in Flood Events	A. Benedetto, A. Chiavari	634-175
Risk Management at the Level of Economic Agents within the Context of Sustainable Development	Gabriela Dobrota, Lucia Popa Paliu, Gabriela Ana Babucea	634-418
Cost Assessment of Activity Risks	Lucia Popa Paliu, Gabriela Dobrota, Ana-Gabriela Babucea	634-431
Risk Management and Policy Interventions on Migration and Remittances	Prelipcean Gabriela, Boscoianu Mircea	634-446
Using Analysis of Variance and Factor Design Techniques for Environmental Impact Analysis in Industrial Processes	Lucia Popa Paliu, Ana-Gabriela Babucea, Gabriela Dobrota	634-440
Risk Mitigation Patterns in English Information Exchange with the Media	Suzana Carmen Cismas	634-522
Risk Communicating Strategies in English for the Field of Engineering	Suzana Carmen Cismas	634-521
Modeling Put-Option Margin and Default Risk When Labor Has a Voice in Bank Governance Mechanism	Chuen-Ping Chang, Jyh-Jiuan Lin, Jeng-Yan Tsai	634-520
A Default Risk Model with Multi-Loan Lending Operations: A System of Integral Scale with Scope	Jeng-Yan Tsai, Jyh-Jiuan Lin, Jyh-Horng Lin	634-519

**Lunch Break: 13.30-15.00**

## **CONFERENCE ROOM CB 110': 15.00-18.00**

### **RIMA MITTIGATION**

**Chair: Gabriel JIGA**

Risk Assessment in Project Management: A Practical Tool	Irina Severin, Mihai Caramihai, Gheorghe Amza, Anamaria Lupu	634-295
Environmental Noise and Influence on the People in Urban Areas	E. C. Rada, T. Cirlioru, V. Panaitescu, M. Grigoriu, M. Ragazzi	634-269
Web Oriented Technologies and Equipments for MSW Collection	E. C. Rada, M. Grigoriu, M. Ragazzi, P. Fedrizzi	634-268
The Assessment of Chemical and Electrochemical Treatment for the Remediation of Diesel Contaminated Soils	I. A. Istrate, M. Grigoriu, A. Badea, E. C. Rada, M. Ragazzi, G. Andreottola	634-267
Risk Management in Different Monetary Policy. The Importance of Issuing Money in Order to Cover Primary Budget Deficit	Oprescu Gheorghe, Mihalcea Marian, Prelipcean Gabriela, Boscoianu Mircea	634-459
Optimization of Recyclable Resources Efficient Use from Economic Point of View	Gabriela Dobrota, Gabriela Ana Babucea, Lucia Popa Paliu	634-419
Health Risk Assessment from Combustion of Sewage Sludge: A Case-Study with Comparison of Three Sites	M. Ragazzi, M. Grigoriu, E. C. Rada, E. Malloci, F. Natolino	634-315
Risk Management in English Communication	Suzana Carmen Cismas	634-517
Specific Risk in Freelance Translating for Science and Technology: Legal Aspects and Competence	Suzana Carmen Cismas	634-513
Evaluation of the Self-Aggressive Behavior Risk Factors in Oncologic Patients	Daniel Vasile, Octavian Vasiliu, Gabriela Grigorescu	634-503
Recognition of Financial Instruments in Accounting Practice	Mariana Balan, Bebe Negoescu, Stefan Nedelea, Constantin Ranea, Mariana Bran	634-477

## **2nd Day, Wednesday April 21, 2010**

### **CONFERENCE ROOM CD 008': 8.00-11.00**

### **RIMA Special Session Risk Management, Assessment and Mitigation in Civil Engineering and Architectural Design**

#### **Chair: Marius MOSOARCA**

Seismic Management and Damage Prevention of Religious Buildings Situated in Seismic Areas	Marius Mosoarca, Victor Gioncu	634-137
Risk Management in Regional Urban Planning (Case Study Hunedoara County Development Plan - Romania)	Radoslav Radu, Branea Ana-Maria, Demetrescu Bogdan, Gaman Marius Stelian	634-188

Assessment and Mitigation Procedures for Historical Buildings Situated in Seismic Areas	Marius Mosoarca, Victor Gioncu	634-136
Complex Risk Management Strategies during Restauration and Reconversion at an XVIIIth Century Building Complex in Timisoara	Ioan Andreescu, Vlad Gaivoronschi	634-264
Risks and Promises of an European Building Quality Evaluation Grid	Vlad Gaivoronschi, Ioan Andreescu	634-263
Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes	Anastasiadis Anthimos, Mosoarca Marius	634-231
Risks Influences on the Built Environment	Razvan Oprita	634-329
Risk Evaluation of Orthodox Churches, using Collapse Plastic Mechanism	Cosma Ovidiu	634-321

**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CD 008': 11.30-13.30**

**RIMA Special Session Risk Management, Assessment and Mitigation Sustainable Development Economic and Legal Aspects**

**Chair: Sache Neculaescu**

Normative Requirements on Credit Contract Risks Prevention	Rada Postolache, Livia Mocanu, Sache Neculaescu, Dan Top, Gheorghe Gheorghiu	634-352
Risk Management	Popescu Marin, Croitoru Ion, Anghel Florin, Hurduc Natalita, Mircea Grigoriu	634-439
Some Models Used to Analyze the Impact of Greenhouse Effect Gases on Climatic Changes	Mariana Balan, Bebe Negoescu, Stefan Nedelea, Mircea Grigoriu, Mariana Bran	634-437
Current Issues of Catastrophic Risks Reinsurance	Paul Tanasescu, Claudia Elena Serban, Cosmin Serbanescu, Florin Anghel, Dodan Ioan	634-436
Approaching the New Company Strategies within the Globalization of Production and Services	Serghei Margulescu, D. Ion Nitu, D. Elena Margulescu, D. Osiceanu Sanda	634-434
An Assessment of Prejudices Caused by the Loss of Chance	Sache Neculaescu, Livia Mocanu, Dan Top, Rada Postolache, Gheorghe Gheorghiu	634-350
Operational Risk. Mode of Administration in the Banking System in Romania	Leonardo Badea, Neculaescu Sache, Adela Socol, Florina Mocanu	634-508

**Lunch Break: 13.30-15.00**

## **CONFERENCE ROOM CD 008': 15.00-18.00**

### **RIMA Special Session Risk Management, Assessment and Mitigation Sustainable Development Economic and Legal Aspects**

**Chair: Sache Neculaescu**

Accounting reform in Romania under the circumstances of matching it with the demands of international accounting regulations	Mariana Man,D. Emilia Vasile,Ioan Dima,Marin Popescu	634-432
Method for Evaluation of Compliance with Occupational Health and Safety Legislation	Doru Darabont, Marilena Gheorghe, Stefan Funar, Mircea Grigoriu, Ene Tudorel	634-525
Compatibility with Legal Requirements of an OH&S Management System based on the SR OHSAS 18001:2008 Standard	Doru Darabont, Marilena Gheorghe, Stefan Funar, Ene Tudorel, Mircea Grigoriu	634-526
The Risk Assumed by the Romanian Litigant on Account of the Matchlessly Judicial Practice of the Courts	Iulia Boghirnea, Ilioara Genoiu, Lavinia Vladila, Olivian Mastacan, Marta Claudia Cliza	634-355
The Regulation of the Risk of Loss in the New Romanian Civil Code	Gheorghe Gheorghiu, Livia Mocanu, Sache Neculaescu, Rada Postolache, Dan Top	634-354
The Peculiarities of Risk in Aleatory Contracts	Ilioara Genoiu, Lavinia Vladila, Manuela Nita, Adriana Motoroiu, Iulia Boghirnea	634-353
Natural Occupational Hazards, Cause of Non-Patrimonial Liability According to Labor Law	Dan Top, Livia Mocanu, Sache Neculaescu, Gheorghe Gheorghiu, Rada Postolache	634-351
The Risk of Non-Complying with the European Convention of Human Rights	Lavinia Vladila, Ilioara Genoiu, Steluta Ionescu, Olivian Mastacan, Mircea Grigoriu	634-357
The Risks of Reforms Implementation in Public Administration	Ivan Vasile Ivanoff, Mihai Grigore	634-358
Unconstitutional Legislative Changes - The Risk that Involves the Stability of the Public Administration in Romania	Marta Claudia Cliza, Ilioara Genoiu, Olivian Mastacan, Mihai Grigore, Iulia Boghirnea	634-362

**Coffee Break: 18.00-18.30**

## **CONFERENCE ROOM CD 008': 18.30-20.00**

### **RIMA Special Session Risk Management, Assessment and Mitigation Sustainable Development Economic and Legal Aspects**

**Chair: Sache Neculaescu**

The Risks of Infringements	Constanta Matusescu, Claudia Gilia, Steluta Ionescu, Cristian Mares, Mircea Grigoriu	634-356
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The Impact of Risk Factors upon Liability for Defective Products	Livia Mocanu, Sache Neculaescu, Rada Postolache, Gheorghe Gheorghiu, Dan Top	634-361
Romanian Justice and the Risks of an Endless Reform	Steluta Ionescu, Constanta Matusescu, Manuela Nita, Ioana Popa, Mihai Grigore	634-360
The Risks Related to Use of Promissory Notes in European and Anglo-American Law Systems	Manuela Nita, Iliora Genoiu, Ioana Adriana Popa, Olivian Mastacan, Mihai Grigore	634-359

## **CONFERENCE ROOM CB 110': 8.00-11.00**

### **RIMA Special Session Sustainable Civil Engineering**

**Chair: Ancuta ROTARU**

Assessment of Road Pavement Condition, Based on the Combined Concept of Chance, Change and Entropy	Radu Andrei, Zeynep Durmusoglu, Vasile Boboc, Elena Puslau	634-391
Climatic and Ecological Aspects of Structural Design of Long Lasting Rigid Pavements - LLRP for Demonstration Projects Located in Different European Regions	Radu Andrei, Vasile Boboc, Elena Puslau	634-314
Integral Bridges and Environmental Conditions	Comisu Claudiu-Cristian, Boaca Gheorghita	634-313
Physical Properties of Pozzolana Fly Ash from Thermal Power Plant of Iasi, Romania – A Cement-like Material for Substructure Works	Ancuta Rotaru, Vasile Boboc	634-319
Mechanical Properties of Pozzolana Fly Ash from Thermal Power Plant of Iasi, Romania – A Cement-like Material for Substructure Works	Vasile Boboc, Ancuta Rotaru, Andrei Boboc	634-318

## **CONFERENCE ROOM CB 110': 11.30-13.30**

### **RIMA Special Session Geonomics. Evaluation and Reduction of Natural Hazards. Modern Methods for Monitoring Dangerous Jobs**

**Chair: Gheorghe MANOLEA**

Solution and Procedure for the Evaluation of the Safety Parameters with the Help of the Automatic Control of Underground Atmospheres	Valeriu Plesea, Sergiu Ghinia, Gabriel Dragos Vasilescu	634-151
The Performant Estimate System of Safety Supporting the Frontal Coal Face through the Mining Pressure Monitoring to the Coal Exploitation using Undermined Coal Bed	Valeriu Plesea, Gheorghe Manolea, Sergiu Ghinia, Maria Daniela Stochitoiu	634-153

Automated Positioning System for the Romanian Anti Hail Rocket Launch Pad	Dan Alboteanu	634-160
Integrated Information System for Preventing the Risk of Worsening Health Condition of People with Diabetes, by eating Foods with Side Effects	Luigi Gabriel Cerban, Gheorghe Manolea	634-156
Anti-Hail System - Geonomic Component of Modern Science	Dorel Zugravescu, Gheorghe Manolea, Laurentiu Alboteanu, Constantin Sulea	634-155
Experimental Study of Contact Resistance Variation for Pantograph-Contact Line Contact	Constantin-Florin Ocoleanu, Gheorghe Manolea, Grigore Cividjian	634-184

### **CONFERENCE ROOM CB 110': 15.00-18.00**

#### **RIMA Special Session Geonomics. Evaluation and Reduction of Natural Hazards. Modern Methods for Monitoring Dangerous Jobs**

##### **Chair: Gheorghe MANOLEA**

Modern Prediction Possibilities for Monitoring Hazardous Working Places	Marius Darie, Sorin Burian, Jeana Ionescu, Tiberiu Csaszar, Lucian Moldovan, Adriana Andris	634-159
System for Continuous Measurement of Gas Concentrations and Environmental Parameters Control	Burian Sorin, Aurel Selejan, Emilian Ghicioi, Jeana Ionescu, Marius Darie, Tiberiu Csaszar	634-157
Professional Risk Management using Computerized Monitoring	Mihnea Sorin Balteanu	634-145
Accessible Technical Solution for Normal Construction Apparatus Usage in Ex Classified Areas	Jeana Ionescu, Lucian Moldovan, Sorin Burian, Ghicioi Emilian, Marius Darie, Tiberiu Csaszar	634-158
Mechanized Underground Coal Mining to Increase Safety and Productivity	Nicolae Ilias, Ianas Andras, Sorin Radu, Adrian Petrar, Marcel Hoara, George Teseleanu	634-226

### **CONFERENCE ROOM CB 213': 11.30-13.30**

#### **RIMA Special Session Risk Factors Evaluation, Management and Mitigation in Medicine**

##### **Chair: Melania MAN**

OXIDIABASE – Software for Risk Assessment of Complications in Type 2 Diabetes Mellitus based on Oxidative Stress Score obtain by Topsis Method	Bondor Cosmina-Ioana, Matei Daniela, Muresanu Adriana	634-416
Risk Factors and Overlap between Asthma and Chronic Obstructive Pulmonary Disease	Elena Dantes, Man Milena Adina, Oana Cristina Arghir, Dana Alexandrescu, Antigona Trofor	634-414

Markers of Increased Vascular Risk in Women with Hypertension and Type 2 Diabetes Mellitus	Adriana Albu, Daniela Fodor, Cosmina Bondor, Milena Man	634-413
Management of Nicotine Dependence in Respiratory Disorders Smokers at Risk for Cardiovascular Co-Morbidity	Antigona Trofor, Milena Adina Man, Dana Alexandrescu, Ramona Miron, Elena Dantes	634-412
Risk of Dying Among Tuberculosis Patients	Man Milena Adina, Antigona Trofor, Dana Alexandrescu, Elena Dantes, Pop Monica, Ruxandra Rajnoveanu, Cosmina Bondor	634-411
Suicide Risk Factors Assessment in Schizophrenia	Daniel Vasile, Octavian Vasiliu, Mihaela Vasile	634-504
Cognitive Risk Factors for Relapse in Chronic Schizophrenia	Daniel Vasile, Octavian Vasiliu, Andrei Gabriel Mangalagiu	634-502
Burn Out in a Sample of Physicians, Nurses and Medical Students - Risk Factors Analysis	Daniel Vasile, Octavian Vasiliu, Diana Gabriela Ojog	634-501
Quality of Life Changes through Risk Factors Reduction Focused Psychotherapy in Cancer Diagnosed Patients	Daniel Vasile, Octavian Vasiliu, Diana Gabriela Ojog	634-500

**3rd Day, Thursday April 22, 2010**

**CONFERENCE ROOM CD 008': 8.00-11.00**

**RIMA RESERVE**

**Chair: Zoia APOSTOLESCU**




**Coffee Break: 11.00-11.30**

**CONFERENCE ROOM CD 008': 11.30-13.30**

**RIMA RESERVE**

**Chair: Zoia APOSTOLESCU**
