

Joint Program

Varna, Bulgaria

September 13-15, 2014



**The 2014 International Conference on Applied
Mathematics, Computational Science & Engineering
(AMCSE 2014)**

**The 2014 International Conference on Mathematics
and Computers in Sciences and Industry (MCSI 2014)**

EUROPMENT CONFERENCES: Saturday September 13th 2014

Registration: 08:15-09:00

Keynote Lecture: 09:00-09:45 Room A'



Decomposing the Arrays: Most Recent Developments
Prof. Metin Demiralp, Istanbul Technical University, Turkey

Plenary Lecture 1: 09:45-10:30 Room A'



Convex Relaxation Methods for Nonconvex Polynomial Optimization Problems
Prof. André A. Keller, Université des Sciences et Technologies de Lille, France.

Coffee Break: 10:30-11:00

EUROPMENT CONFERENCES: Saturday September 13th 2014**CONFERENCE ROOM A': 11:00-13:30****Special Session: Security Systems, Technologies and Management I****Chair: Martin Hromada**

Local Flood Warning Systems and Application Possibilities	Jakub Rak, David Sevcik, Blanka Svobodova, Jan Strohmandl	93245389
Intelligent Video Surveillance System Evaluation Dataset Proposal Methodology	Jiri Sevcik	93245578
Lighting Measurement Methods related to Intelligent Video Surveillance System Evaluation	Jiri Sevcik, Petr Svoboda	93245589
On Different Approaches to Human Body Movement Analysis	Kateřina Sulovská	93245367
Safety of Database Storage for Remote Laboratories and Laboratory Management System	L. Pálka, F. Schauer, R. Jašek	93245556
Risk Mapping for Mobile Communication	Luděk Lukáš	93245501
A Proposal of Camera System for Measuring of EMC Parameters of Information Technology Equipment	Michal Nagy, Jan Valouch, Hana Urbancokova	93245512
Recursive Estimation Algorithms in Matlab & Simulink Development Environment	Petr Navrátil, Ján Ivanka	93245523
Laboratory Robotic Systems for the Security Industry	Petr Navrátil, Ján Ivanka	93245534

EUROPMENT CONFERENCES: Saturday September 13th 2014

CONFERENCE ROOM B': 11:00-13:30

Session: Information Science and Applications

Chair: Vasil Georgiev, Mohamed Hamdi

Benchmarking Different MapReduce-Implementations for Computer Aided Hardware Development on Small Size Clusters	David Neuhäuser	93245189
Modernization of Artillery Reconnaissance	Jiří Šotnar, Michal Carbol, Martin Blaha	93245291
Setting a Method of Determination of "Fire for Effect" Firing Data	Martin Blaha, Ladislav Potužák, Milan Kalina	93245312
The Use of Psychometric Questionnaires in Security Community Members Evaluation	Alena Paduchova, Ludek Lukas	15060003
Comparison of Cryptographic Methods based on the Arithmetic of Elliptic Curves (ECC) with Symmetric Cryptography Methods on the Android Platform	Milan Oulehla, David Malaník	15083007
Free Software for the Modelling and Simulation of a Mini-UAV	Tomáš Vogeltanz, Roman Jašek	15072023
Numerical Solution of Cloud Servicing Models	Vasil Georgiev	15260007
Adaptive Risk-Based Assessment of Security Investments	M'hamed Chammem, Mohamed Hamdi	15287003
A Short Review of Location-Based Mobile Phone Emergency Systems: Current State and Future Guidelines	Anas Aloudat	15255007

EUROPMENT CONFERENCES: Saturday September 13th 2014

CONFERENCE ROOM C': 11:00-13:30

Session: Industrial Applications, Manufacturing and Engineering

Chair: Chee-Ming Chan, David Thambiratnam

Remoulded Dredged Marine Clay: A Study of Time Factor on Strength Recovery	Chee-Ming Chan	15270003
Structural Health Monitoring – Use of Mathematics and Computers	David P Thambiratnam, Henry H. W. Shih, Tommy H. T. Chan	15232027
On One Approach to Evaluation of Quality Level in Manufacturing, Business and Education	Ahmet Demir, Irakli Rodonaia, Irina Milnikova	15057007
Application Design Methodology for Building a Device Foil Incremental Deformation by Double Point Method Dieless-DPIF	Gabriel Paramo Bermudez, Adrian Benitez Lozano	15162003
A Neural Networks Based Model For The Prediction Of The Bottled Propane Gas Sales Invited Paper	Horacio Paggi, Franco Robledo	15254003
The Development, Status and Trends of Recommender Systems: A Comprehensive and Critical Literature Review	Jin Xu, Karaleise Johnson-Wahrmann, Shuliang Li	15219003
A Multi-Agent-Based Evolution Model of Innovation Networks in Dynamic Environments	Qingqi Long, Shuliang Li	15226007
Application of the Static and Dynamic Models in Predicting the Future Strength of Portland Cements	Dimitris C. Tsamatsoulis	15246007

EUROPMENT CONFERENCES: Saturday September 13th 2014**CONFERENCE ROOM A': 13:30-16:00****Special Session: Security Systems, Technologies and Management II****Chair: Martin Hromada**

The Analysis of the Physiological Similarities between Family Members	Hana Talandová, Hana Urbančoková, Milan Adámek	93245655
Proposal of Workplace for Testing of Electromagnetic Susceptibility – Electrical Fast Transient/Burst	Hana Urbancokova, Jan Valouch, Milan Adamek, Michal Nagy	93245666
Electromagnetic Compatibility of Alarm Systems	Jan Valouch	93245699
The Use of Simulation in Education of Security Technologies, Systems and Management	Petr Svoboda, Jiri Sevcik	93245644
Security Risks of Java Applets in Remote Experimentation and Available Alternatives	Petra Špiláková, Roman Jašek, František Schauer	93245600
Performance of Hybrid Mobile Application UI Frameworks	Radek Vala, Roman Jasek	93245688
Design of a Software Tool for Mobile Application User Mental Models Collection and Visualization	Radek Vala, Roman Jasek, David Malanik	93245677
Safety Analysis as a Basis for Safety Planning	Vladislav Stefka	93245611
Safety Requirements for the Organization	Vladislav Stefka	93245622

EUROPMENT CONFERENCES: Saturday September 13th 2014**CONFERENCE ROOM B': 13:30-16:00****Session: Applied Mathematics and Computational Techniques****Chair: Cristina Serbănescu, Torsten Ullrich**

Exploring the Design Space of Signed-Binary Adder Cells	David Neuhäuser	93245078
Schwartz-Christoffel Transformation Applied to Polygons and Airfoils	Etsuo Morishitan	93245334
Systolic Approach for QR Decomposition	Halil Snopce, Azir Aliu	93245378
A Particular Case of Evans-Hudson Diffusion	Cristina Serbănescu	15184051
Characteristic Polynomials of a Class of Jacobi Quartic Curves over Finite Field	Dongqin Wang, Lin You	15182015
Visual Modeling and Fractal Methods in Science	Sekovanov Valery S., Ivkov Vladimir A., Shlyahina Svetlana M., Smirnov Eugeny I., Selezneva Elena M.	15178023
Statistical Analysis on Global Optimization	Torsten Ullrich, Dieter W. Fellner	15079007

EUROPMENT CONFERENCES: Saturday September 13th 2014

CONFERENCE ROOM C': 13:30-16:00

Session: Advances in Mechanical Engineering

Chair: Alberto Duarte Möller, Seif Al Nasr Ahmed Abd Alghany

The Analysis of Removable Cutting Tools from the Point of View of the Operating Properties	Cristian-Silviu Simionescu	93245391
The Influence of the Gear Cutting Dynamics upon the Shape and Position of the Replaceable Cutting Edges Made from Sintered Metallic Carbides	Cristian-Silviu Simionescu, Carmen Debeleac	93245401
Erosion Case Study by Computational Fluid Dynamics (CFD) Modeling and Optimization in Situ of Clinker Sampler Probe Design	Héctor Alfredo López Aguilar, Jorge Alberto Gómez, Marco Antonio Merino, Alberto Duarte Möller, E. Orrantia-Borunda, Antonino Pérez Hernández	93245489
Bivariate Process Capability Analysis of Fuel Injection Nozzles Production	Lubos Kotek, Vaclav Pistek	93245467
Kinematic Analysis and Optimization of a 6 Bar Mechanism	C. Balasubramanyam, Ajay M. S., Amogh B. Shetty, K. R. Spandana, K. N. Seetharamu	15254007
TVD and ENO Applications to Supersonic Flows in 2D	Edisson S. G. Maciel, Eduardo M. Ferreira, Amilcar P. Pimenta, Nikos E. Mastorakis	15113007
Differential Evolution and Heat Radiation Intensity Optimization	Jaroslav Mlynek, Radek Srb	15058011
A Study Of Exergy Analysis for Combustion in Direct Fired Heater (Part I)	Seif Al Nasr Ahmed Abd Al Ghany, Bahgat Kameis Morsy, Ahmed Ali Abd El-Rahman Ali	15251011

Coffee Break: 16:00-16:30

EUROPMENT CONFERENCES: Saturday September 13th 2014

CONFERENCE ROOM A': 16:30-18:30

Session: Enhanced Multivariate Products and Applications I

Chair: Metin Demiralp, N. A. Baykara

Entropy in Terms of Vehicular Distance under Driving Constraints	Caglar Kosun, Serhan Ozdemir	93245056
Subdiffusive Dynamics of Istanbul Highway Traffic Flow	Caglar Kosun, Tunc Bilginan, Serhan Ozdemir	93245045
Multivalent Harmonic Mappings	Melike Aydogan, Durdane Varol	93245744
Weight Construction in Extended Space Expectation Values for Singular Quantum Systems at Spectral Structuring and Temporal Constancy Limit	Berfin Kalay, Metin Demiralp	15155023
The Influence of Initial Vector Selection on Tridiagonal Matrix Enhanced Multivariate Products Representation (TMEPR)	Cosar Gozukirmizi, Metin Demiralp	15068003
Univariate Function Decomposition Via Tridiagonal Vector Enhanced Multivariate Products Representation (TVEMPR)	Ercan Gurvit, N. A. Baykara, Metin Demiralp	15166023

CONFERENCE ROOM B': 16:30-18:30

Session: Image, Sound and Signal Processing

Chair: Valeri Mladenov, Mamta Padole

Wavelet Energy Embedded into a Level Set Method for Medical Images Segmentation in the Presence of Highly Similar Regions	F. Alim-Ferhat, A Boudjelal, S. Seddiki, B.Hachemi, S.Oudjemia	15069015
Skin Color Analysis and Segmentation in Complex Outdoor Background	Hui Zhu, Nikos E. Mastorakis, Xiaodong Zhuang	15244011
Allan Variance - Stability of Diode-Laser Spectrometer for Monitoring of Gas Concentrations	Jan Skrinisky, Maria Skriniska, Zdenek Zelinger	15263003
Content-Based Image Retrieval Using the Dual-Tree Complex Wavelet Transform	Stella Vetova, Ivan Ivanov	15261007
Indoor Location and Identification of Objects with Video Surveillance System and WiFi Module	Damian Grzechca, Tomasz Wróbel, Patryk Bielecki	15262003
Speech Processing Strategy in a Cochlear Implant Processing Unit based on a Combination of SNR and the Number of Frequency Bands in Amplitude and Frequency Modulation	S. Antonov, G. Tsenov, V. Mladenov	15302003

EUROPMENT CONFERENCES: Saturday September 13th 2014

CONFERENCE ROOM C': 16:30-18:30

Session: Education and Educational Technologies

Chair: Bekim Fetaji, Martin Buecker

Investigation of Natural User Interfaces and their Application in Gesture-Driven Human-Computer Interaction	Bekim Fetaji, Majlinda Fetaji, Aleksandar Petrovski, Mirlinda Ebibi	15072019
Investigating Factors that Influence E-School Management in High Schools in Macedonia	Majlinda Fetaji, Bekim Fetaji, Mirlinda Ebibi	15072011
Reformulating a Breadth-First Search Algorithm on an Undirected Graph in the Language of Linear Algebra	H. Martin Bucker, Christian Sohr	15250007
Using Integral E-Portfolio to Learn Linear Algebra	M. Isabel Garcia-Planas, Judit Taberna	15124003
Governance and Adaptation to Innovative Modes of Higher Education Provision	Silvia Florea, Cecile Hoareau McGrath	15287007
Using DSML in Moodle Configuration to Support PBL-Pedagogy	Khulood Khalil Al-Dous, Mohammed Samaka	15024003
Videogame Design as Strengthening in Communicational and Cognitive Processes	Yaneth P. Caviativa, María Inés Mantilla Pastrana, Yoan M. Guzmán, Adán Beltrán, Valentino Jaramillo, Ana Milena Rincón	15276003

EUROPMENT CONFERENCES: Saturday September 13th 2014

POSTER PRESENTATIONS


Calculation of the reflectance and transmittance rate of a wave with oblique incidence in an inhomogeneous medium with losses using the SPPS method.	V.V. Kravchenko, J.A. López, Héctor Oviedo	15175019
Method based on the column generation technique and Lagrangian relaxation	A. Lamamri, H. Ait Haddadene	93245067
18F-FDG PET/CT as a potential predictor of survival in patient with esophageal cancer: a preliminary results	Fathinul Fikri A.S , R Dharmendran, P Vikneswaran , AJ Nordin	15193003
Structural, electronic, magnetic and thermodynamic properties of full-Heusler compound Co ₂ VSi: Ab initio study	Ali Bentouaf	15191007
Risk processes with double barriers	Dean Teneng	93245234
The kinetic energy relativistic correction and the quantum mechanics explanation of the Lamb shift	Yuchuan Wei	15207003
Evaluating and analyzing efficiency of flexible manufacturing systems via bootstrap DEA based on small sample data	Ahmad Mehrabian , Mehrdad Javadi	15142003
Structural-Parametric Identification Of Differential Equations Of The Elastic Element Of Satellite-Gyrostad	V.A. Rusanov, L.V. Antonova, A.V. Daneev, A.E. Kumenko	15134003
Particle Filter based ownship Evasive Maneuever under Torpedo Attack	Leela kumari.B,Koteswara Rao.S,Padma Raju.K	15060007
Colombian Manufacturing Sector: Industrial Structures 2000 – 2012	Karina Manrique Lopez, Sergio Ardila, Carlos Castillo	15087027
A Critical Study to Enhance the Competitiveness of Engineering Educational Institutions	G. M. Ramesh, V. Jaiganesh	15071007
Concealing of Data Using Conjecturable Dissemination of Image	J. Hari, S. Kalyani	15078015
Formal Verification of Safety Control System based on GHENESYS NET	Rodrigo Cesar Ferrarezi, Reinaldo Squillante Júnior, Jeferson A. L. Souza, Diolino J. Dos Santos Filho, José Reinaldo Silva, Paulo Eigi Miyagi, Lucas Antonio Moscato	15247007
Piezoelectric based Vibration Energy Harvester with Tip Attraction Magnetic Force: Modeling and Simulation	Dauda Sh. Ibrahim, Asan G. A. Muthalif, Tanveer Saleh	15290003
Development and Analyses of “M-LearnSys” Mobile Learning Course Management System	Bekim Fetaji, Majlinda Fetaji, Jovica Saveski, Mirlinda Ebibi	15072015
Conversion of the METCM into the Meteo-11	Karel Šilinger, Ladislav Potužák, Jiří Šotnar	15074007
Power-Line Communication-Revisited in the Context of Smart Grid	Saurabh Chaudhury, Sourav Bhattacharjee	15254011

EUROPMENT CONFERENCES: Saturday September 13th 2014

POSTER PRESENTATIONS

Offline Detection of P300 in BCI Speller Systems	Mandeep Kaur	15008003
Intelligent Border Security Interactive Simulation Tool (IBS-IST)	Iyad Aldasouqi, Arafat Awajan	15224007
Relation and Attribute Fusion to Detect Communities of Online Social Networks	Mohammad H. Nadimi, Mehrafarin Adami	15211007
Crowdsourcing Implementation Platform as Methodology in Process Management –BPM- of Services Information System in Health	Fernando Prieto Bustamante, Yaneth P. Caviativa, Yoan Manuel Guzman, Victor Manuel Castro Rodríguez	15291003
Advantages of the implementation of Service Desk based on ITIL Framework in Telecommunication Industry	Anel Tanovic, Fahrudin Orucevic, Asmir Butkovic	15206003
A Recommender System using Collaborative Filtering and K Mean Based on Android Application	Kunyanuth Kularbphettong, Sunisa Somngam, Cholticha Tongsiri, Pattarapan Roonrakwit	15182055
3D Numerical Optimization of Pollution Emission by Group of Source	V. V. Fedosov, Alina Fedosova	15080059
Integrated Development Environment for Remote Application Platform	Omer Saleh, Xavier Patrick Kishore, P. Sagaya Aurelia	15083075
A Survey on Mobile Augmented Reality Based Interactive, Collaborative and Location based Storytelling	P. Sagaya Aurelia, Durai Raj, Omer Saleh	15083083

Plenary Lecture 2: 08:45-09:30 Room A'

	<p>Advances on Stability of Multidimensional Systems Prof. Nikos Mastorakis, Technical University of Sofia, BULGARIA.</p>
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CONFERENCE ROOM A': 09:30-11:30

Session: Enhanced Multivariate Products and Applications II

Chair: Metin Demiralp, N. A. Baykara

Tridiagonal Kernel Enhanced Multivariate Products Representation (TKEMPR) for Univariate Integral Operator Kernels	Ayla Okan, Metin Demiralp	15171003
Relations Between the Permutations and the Matrix Norm in Denumerable Infinite Vector Folding to Semi-Denumerable Infinite Matrices	Metin Demiralp	15182047
Infinite Vector Decomposition in Tridiagonal Matrix Enhanced Multivariate Products Representation (TMEMPR) Perspective	N. A. Baykara, Metin Demiralp	15167007
True Random Number Generation of Very High Goodness-of-fit and Randomness Qualities	Süleyman Gökhan Tanyer	15258003
Goodness-of-fit and Randomness Tests For The Sun's Emissions True Random Number Generator	Süleyman Gökhan Tanyer, Kumru Didem Atalay, Sıtkı Çağdaş İnam	15258007
Fine Tuning Points of Generating Function Construction in Integral Form for Linear Recursions	Bahar Yolcu, Metin Demiralp	15182031

EUROPMENT CONFERENCES: Sunday September 14th 2014

CONFERENCE ROOM B': 09:30-11:30

Session: Circuits Design and Automatic Control

Chair: Maria Isabel Garcia-Planas, Wataru Kase

A Comparison of PSO and BFO Applications for the PID Controller Synthesis in Time-Delay Systems	Ilir Juniku, Petraq Marango	93245001
Curvature Circuit Implementation on Xilinx FPGA	F. Alim-Ferhat, S. Seddiki, B. Hachemi, F. Talbi	15089015
Multi-Agent Linear Dynamical Systems. Analyzing the Consensus Problem	Maria Isabel Garcia-Planas	15118011
Using Simulation for Testing of Control Programs for Process Control Systems in Coal Mining	Victor Okolnishnikov, Sergey Rudometov, Sergey Zhuravlev	15085011
An Inverse Calculation of Unimodular for Polynomial Matrices	Wataru Kase	15088007
Dynamic CMOS Incrementers-cum-Decrementers Based on Least Significant Zero Bit Principle	P. Balasubramanian, N. E. Mastorakis	15174015

Coffee Break: 11:30-12:00

EUROPMENT CONFERENCES: Sunday September 14th 2014

CONFERENCE ROOM A': 12:00-14:30

Special Session: Security Systems, Technologies and Management III

Chair: Martin Hromada

Testing the Security in Analog Intrusion And Hold-up Alarm Systems	Adam Hanáček, Martin Sysel	93245734
Usability CAN Bus for Encrypted Communication InIntrusion and Hold-up Alarm Systems	Adam Hanáček, Martin Sysel	93245735
Evaluation of Effectiveness of Alarm Systems	Jan Valouch	93245710
Software Support of Integration of Alarm Systems	Jan Valouch	93245721
Safety Research of Population Protection According to Population Differentiation	Lenka Brehovská, Libor Líbal, Zuzana Freitinger Skalická	93245732
Communication Principles Between Client and Physical Hardware of ISES Remote Laboratory	M. Gerža, F. Schauer, K. Vlček	93245733
Electrical Brackets for IP Cameras	Milan Adamek, Dora Lapkova, Rudolf Chovanec, Petr Neumann, Miroslav Matysek	93245730
University Network with REMLABNET and Communication among Individual Datacenters	P. Beňo, F. Schauer, K. Vlček	93245731

CONFERENCE ROOM B': 12:00-14:30

Session: Power and Energy Systems

Chair: Mohsen Dehghan Manshadi, Ruma Rano

Aspects of Designing the Tracking Systems for Photovoltaic Panels with Low Concentration of Solar Radiation	Ionel Laurentiu Alboteanu, Florin Ravigan, Sonia Degeratu, Constantin Şulea	93245356
Basic Study on Contribution to Dynamic Stability by Large Photovoltaic Power Generation	Junichi Arai, Shingo Uchiyama	93245012
A Geometric Approach for the Model Parameter Estimation in a Permanent Magnet Synchronous Motor	Paolo Mercorelli	93245412
Assessment of Wind Energy Potential for City of Firoozkooh in Iran	Seyyed Mohsen Kamali, Mohsen Dehghan Manshadi	15251007
Reinforcement Learning Based Algorithm for the Maximization of EV Charging Station Revenue	Stoyan Dimitrov, Redouane Lguensat	15264007
Modification of Plasma Confinement by Applying External Resonant Fields in IR-T1 Tokamak	M. Lafouti, M. Ghorannevis, S. Meshkani	15178039
The Simulation Analysis of Motor Startup Based on the ETAP Platform	Hui Zhu, Ximei Liu, N. E. Mastorakis	15244007
Characterisation of High Carbon Ash from Captive Power Plant for Potential Utilisation	Ruma Rano, A. Sarkar	15254015

EUROPMENT CONFERENCES: Sunday September 14th 2014

Coffee Break: 14:30-15:00

CONFERENCE ROOM A': 15:00-17:30

Special Session: Security Systems, Technologies and Management IV

Chair: Martin Hromada

Using Artificial Neural Network for Force Profile Analysis in Professional Defence	Dora Lapkova, Michal Pluhacek, Milan Adamek	93245742
Analysis of Direct Punch with a View to Velocity	Dora Lapkova, Milan Adamek	93245743
The Elevation of Positional Mechanisms for the Measurement of Electromagnetic Fields on Cylindrical Surfaces	Ján Ivanka, Petr Navrátil	93245737
Optosensors Systems in Spherical Safety Protection Security Systems	Ján Ivanka, Petr Navrátil	93245738
Categorization of ITIL® Tools	Lukas Kralik, Ludek Lukas	93245739
Proposal of Evaluation ITIL® Tools	Lukas Kralik, Ludek Lukas	93245740
Software Application of Mathematical Modeling of Critical Infrastructure Element Resilience	Martin Hromada, Ludek Lukas	93245736
Service Design According ITIL® with RAD Approach	Veronika Vesela, Lukas Kralik	93245741

EUROPMENT CONFERENCES: Sunday September 14th 2014

CONFERENCE ROOM B': 15:00-17:30

Session: Systems Science and Scientific Computation

Chair: Hideki Sano, Milena Karova

Dirichlet Boundary Stabilization of Unstable Mixed Parameter Systems	Hideki Sano	15079003
Genetic Algorithm for Managing Project Activities System	Milena Karova, Gergana Todorova, Ivailo Penev, Mariana Todorova	15257007
Improving the Performance of User-Based Collaborative Filtering by Mining Latent Attributes of Neighborhood	Na Chang, Takao Terano	15184003
A Location Recommender System for Location-Based Social Networks	Pavlos Kosmides, Chara Remoundou, Konstantinos Demestichas, Ioannis Loumiotis, Evgenia Adamopoulou, Michael Theologou	15249007
Optimization of Feeding Management on Small-Scale Dairy Systems of Central México	Adolfo Aarmando Rayas-Amor, Carlos Galdino Martínez-García, Octavio Alonso Castelán-Ortega	15285003
Convex Relaxation Methods for Nonconvex Polynomial Optimization Problems	André A. Keller	15314010
Use of a Semantic Language to Reduce the Indeterminacy in Agents Communication	Horacio Paggi	15265007
Automatic Paint Mixing Process using LabView	Mohamed A. Muftah, Abdulgani M. Albagul, Abdullah M. Faraj	15268003
Recognizing Short Tandem Repeat Regions in Genomic Sequences Using Wavelet Transforms	Mamta C. Padole	15261003

Conference Banquet: 19:30

EUROPMENT CONFERENCES: Sunday September 14th 2014

POSTER PRESENTATIONS

Mobile Augmented Reality and Interactive Storytelling	Sagaya Aurelia, Durai Raj, Omer Saleh	15083087
Data Mining in Medicine Domain Using Decision Trees and Vector Support Machine	Djamila Benhaddouche, Abdelkader Benyettou	15213011
Analysis of the Triple Correlation: Commerce – Sustainable Development – Risk Management	Adrian Ioana, Augustin Semenescu	93245134
Comparison of Corn and Corncob using as Fungal Culture Medium	Jaruwan Chutrtong	93245456
CloudAnalyzer: A Cloud Based Deployment Framework for Service Broker and VM Load Balancing Policies	Komal Mahajan, Deepak Dahiya	93245445
An Efficient VM Load Balancer for Cloud	Ansuyia Makroo, Deepak Dahiya	93245434
Stress Intensity Factors in two Bonded Elastic Layers Containing Crack Perpendicular on the Interface with Different Elastic Properties	Mahdi Keikhaie, Nasser Keikhaie, Reza Keikhaie, M. M. Kaykha	93245323
Task Formation Commander`s Operation Order for Fire Support	Martin Blaha, Karel Šilinger	93245301
Comparative Analysis of Base Transceiver Station (BTS) and Power Transmission Lines Effects on the Human Body in Lagos Environs	L. A. Akinyemi, N. T. Makanjuola, O. Shoewu, F. O. Edeko	93245212
Palm Vein Recognition and Verification System Using Local Average of Vein Direction	Asmaa M. J. Abbas, Loay E. George	93245201
A Robust Hash Scheme for Image Authentication System via Singular Value Decomposition	Engr Faizullah, Ayaz Hussain	93245191
An Improved Hybrid Distributed Image Compression Model	Sherin M. Youssef, Ahmed Abou Elfarag, Noura S. Khalil	93245178
Particle Shape Effect on Extraction in Vibration Screening: Ellipsoidal vs Spherical Particle Approximation	Kirill Sergeevitch Ivanov, Leonid Abramovitch Vaisberg	15269003
A Study of Droplets Division in Circle Shape Micro Channel	Maryam Ghelichkhani	15046011
Approach for Automated Person Identification from Any Type of Identification Document	Krasimir Diyanov Dimitrov, Sivo Vladimirov Daskalov	15310007
Algorithmic Analysis of the Marketing Mix in Metallic Materials Industry	Adrian Ioana, Augustin Semenescu	93245123

EUROPMENT CONFERENCES: Sunday September 14th 2014

POSTER PRESENTATIONS

Knowledge Modelling of Electric Arc Furnace (EAF)	Adrian Ioana, Augustin Semenescu	93245112
Inter Comparison of Classification Techniques for Vowel Speech Imagery using EEG Sensors	Anaum Riaz, Sana Akhtar, Shanza Iftikhar, Amir Ali Khan, Ahmad Salman	15050003
Include Macbeth in the MCDA Models Suggested by Italian Legislation for the Selection of the Most Economically Advantageous Tender in Contracts for Public Works. Comparison and Application of MCDA Model to a Case Study	Maria Rosaria Guarini, Claudia Buccarini, Fabrizio Battisti	15303003
Improving the Performance of User-based Collaborative Filtering by Mining Latent Attributes of Neighborhood	Na Chang, Takao Terano	15314011
Generalized Least-Squares Regressions IV: Theory and Classification Using Generalized Means	Nataniel Greene	15304003
Anti-Windup Approach for the Compensation of Slip Speed of Induction Motor	T. Benmiloud	15306003
Image Encryption based on Development of Hénon Chaotic Maps using Fractional Fourier Transform	Mona F. M. Mursi, Hossam Eldin H. Ahmed, Fathi E. Abd El-Samie, Ayman H. Abd El-Aziem	15307003
Mathematical Model of Object Oriented Class Cohesion Metric MCCM	Omer Saleh, Tejdeda Alhussen Alhadi, Xavier Patrick Kishore, Sagaya Aurelia	15083071
A Robust AVR-PSS Design Based on H ₂ and H _∞ Control Techniques- Implementation Under Gui/MATLAB	Ghouraf Djamel Eddine , Nacéri Abdellatif	15070007

EUROPMENT CONFERENCES: Monday September 15th 2014

CONFERENCE ROOM A': 09:00-11:00

Session: **Advances in Telecommunications**

Chair: **Slava Yordanova, Ventsislav Nikolov**

Orthogonal Chaotic Sequence Generation for a Class of Stochastic Wireless Channels	Anamika Sarma, Kandarpa Kumar Sarma, Nikos Mastorakis	93245289
A New Graphical Password Based on Decoy Image Portions (GP-DIP)	Mohsin R. Albayati, Arash Habibi Lashkari	15123007
Motion Capture Systems Overview and Accelerometer MoCaps Systems	Slava Milanova Yordanova, Nikolay Todorov Kostov, Yassen Dimchev Kalchev	15271007
The Performance of the Data-Cluster Based on the CEPH Platform with Geographically Separated Nodes	David Malanik, Roman Jašek	15079011
Service Based Generation of Latex Graphical Dependencies	Pavol Buzák, Katarína Žáková, Zoltán Janík	15184002
Statistical Distribution Identification with Cloud Based Module	Ventsislav Nikolov, Danko Naydenov, Anatoliy Antonov	15255003

CONFERENCE ROOM B': 09:00-11:00

Session: **Recent Researches in Biology and Chemistry**

Chair: **Alberto Duarte Möller, Cornelia Aida Bulucea**

First Time Electronic Structure Calculation of Poly[μ 2- L-alanine- μ 3- sodium nitrate (I)] Crystals with Non-Linear Optical Properties	A. Duarte-Moller, E. Gallegos-Loya, E. Orrantia Borunda	93245345
Determination of the Kinetic Model for Cell Line on the Duration of Action of an Inhibitor of Tyrosine Kinases Receptors	Corina Brîndușa, Cornelia Aida Bulucea, Nikos E. Mastorakis	93245278
Characterization of Nested Complexes in Protein Interaction Networks	Nazar Zaki, Antonio Mora	15079023
Study of Enzymatic Hydrolysis and Liquid Glucose Production by Solid State Fermentation from Rice Hull using Trichoderma Species	Arezou Ghadi, Azam Sinkakarmi	15252003
Flash-Point Prediction for Industrial Applications	Maria Skrinska, Jan Skrinsky, Petr Dolnicek, Petra Lukesova, Jan Marek	15265003
Comparison of Segmentation Methods for Accurate Dental Caries Detection	Jackson B.T. Pedzisai, Serestina Viriri	15174055

Coffee Break: 11:00-11:30

EUROPMENT CONFERENCES: Monday September 15th 2014

POSTER PRESENTATIONS

A Study of the Pressure and Potential Distribution in Micro Fluidic Devices	Maryam Ghelichkhani	15046015
(M, 2)-Methods of Accuracy of a Maximal Order for Stiff Systems	Eugeny A. Novikov	15031023
Demarcation And Area Of Tumour In Brain Using K-Means Algorithm	Hari Jyothula,S koteswara rao,V Valli kumari	15078019
Analysing and Devising a Model for Trustworthy Software	Bekim Fetaji, Nasih Reci , Majlinda Fetaji	15072007
A System Model to Detect Left-turn Forbidden Intersection Automatically Based on Taxi Trajectories	zhixin Song	15055003
Computer Simulation of Hybrid Systems by ISMA Instrumental Facilities	Yury V. Shornikov, Dmitry N. Dostovalov, Maria S. Myssak	15018003
Predictive Estimation by ANSYS for Laminated of Wood Deep Beam	Adeola A Adedeji, Arisekola K. M and Abdulraheem K. K.	15241003
Architecture of an Agents-Based Model for pulmonary tuberculosis	William David Peña Peña. M.A. Luis Gabriel Moreno Sandoval	93245267
Fundamentals of a fuzzy inference system for educational evaluation	William David Peña Peña. M.A. Luis Gabriel Moreno Sandoval	93245256
A characterization of Alternating group A12	Deqin Chen, Shitian Liu	93245156
A characterization of Suzuki group Sz(32) by nse	Yong Yang and Shitian Liu	93245091
From Scalar to Vector Optimality Conditions	Vsevolod I. Ivanov	15266007
Exit Levels of Diffusion Processes and Two Classical Problems for a First Hitting Time	Doncho S. Donchev	15263007
Predicting The Bearing Capacity of Shallow Foundations Resting on Rocks Using Artificial Neural Networks	Ehsan Sadrossadat, Ali Heidaripناه, and Shervin Tajeri	15224003
FPGA Coprocessor-based IMM-SDCMKF Application to a Radar Maneuvering Target Tracking System	Bao-bao Wang, Quan-sheng Wang	15253003
A new rule to branch in the B & B algorithm based on the integer width of polyhedron	Ivan Derpich	15085015
Quantitative models of defect formation in silicon and their use for control of the defect structure of solids	V.I.Talanin, I.E.Talanin	15240003

EUROPMENT CONFERENCES: Monday September 15th 2014

POSTER PRESENTATIONS

A remote sensing and GIS based approach for vulnerability, exposer and landscape trajectories in Olomouc, Czech Republic	Mukesh Singh Boori, Vít Voženílek	15214003
Evaluation of the flicker effect produced by a consumer	Gabriela Ungureanu, Gheorghe Lazaroiu	15170003
Bi- Γ -hyperideals of Γ -semihypergroups based on intuitionistic fuzzy points	Saleem Abdullah	15129003
Implementation for Model of Object Oriented Class Cohesion Metric MCCM	Tejdeda Alhussen Alhadi, Omer Saleh, Xavier Patrick Kishore, Sagaya Aurelia	15111007
Assessment and Optimization of Radiation Dosimetry and Image Quality in X-ray Radiographic Imaging	R Zainon, N S Abu Talib, S N Abu Bakar, N H M Moner, and N A A Aziz	15099003
Application of the Fault tree analysis for reliability assessment and maintenance costs optimization	Hassana Mahfoud, Abdellah El Barkany, Ahmed El Biyaaly	15088027
Electron escaping in the magnetically confined electron cloud	Chaohai Zhang	15255011
Trajectory Simulation for Unguided Artillery Projectile	Wessam Mahfouz Elnaggar, Chen Zhi-Hua	93245491
Design and implementation of new ITIL Service Desk for insurance companies	Anel Tanovic, Fahrudin Orucevic	93245089
Delayed control of compass gait robot, switched systems based	Walid Arouri, Elyes Maherzi, Mongi Besbes, Safya Belghith	93245145