

Joint Program

Vienna, Austria, 15-17 March 2015



**2015 International Conference on Applied Physics, Simulation and Computers
(APSAC 2015)**

**2015 International Conference on Mathematical Methods, Mathematical Models and
Simulation in Science and Engineering (MMSSE 2015)**

2015 International Conference on Educational Technologies and Education (ETE 2015)

**2015 International Conference on Chemical Engineering and Materials Science
(CEMS 2015)**

**2015 International Conference on Pure Mathematics - Applied Mathematics
(PM-AM 2015)**

2015 International Conference on Neural Networks - Fuzzy Systems (NN-FS 2015)

2015 International Conference on Economics and Statistics (ES 2015)

**2015 International Conference on Theoretical Mechanics and Applied Mechanics
(TMAM 2015)**

2015 International Conference on Mechanical Engineering (ME 2015)

2015 International Conference on Environmental Science and Geoscience (ESG 2015)

**2015 International Conference on Circuits, Systems, Signal Processing, Communications
and Computers (CSSCC 2015)**

2015 International Conference on Biology and Biomedical Engineering (BBE 2015)

Important Notes:

- (1) You may register at any time during the conference.
- (2) The Invoice of payment can be collected at the registration desk at any time.
- (3) The Certificate of Participation can be collected at the registration desk only after your presentation.
- (4) Session chairmen can ask for a special Certificate at the registration desk after the session
- (5) The duration of a presentation slot is 15 minutes for a regular paper, 30 minutes for an invited paper and 40 minutes for a plenary speech, including questions. Invited papers are marked in *Italic letters*
- (6) All authors should give their biographies to the chairmen before the beginning of the session.
- (7) Authors can upload their presentations to the available computers 10 minutes before the beginning of their session.

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



Highlights of Modern Astrophysics, or The Gold Effect: How reliable is Modern Astrophysics?

by Professor Wolfgang Kundt, Argelander Institut für Astronomie, University of Bonn, Germany.

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



Data Compression: Learning and Clustering

by Professor Bruno Carpentieri, University of Salerno, Italy.

Coffee Break: 10:30-11:00

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM A': 11:00-14:00

Session: Pure and Applied Mathematics and Mathematical Methods I

Chair: Nataniel Greene, Petra Perner

<i>Application of Statistic Complexity Metrics to Detection of Malware Threats in Autonomic Component Ensembles</i>	<i>A. Prangishvili, O. Shonia, I. Rodonaia, V. Rodonaia</i>	<i>5562007</i>
<i>Generalized Least-Squares Regressions V: Multiple Variables</i>	<i>Nataniel Greene</i>	<i>5651003</i>
<i>Swarm Optimization-Based Personalization of Interactive Systems</i>	<i>Alexander Nikov, Stefka Stoeva, Tricia Rambharose</i>	<i>5554011</i>
<i>Vision-Based Navigation and System Identification of Unmanned Underwater Survey Vehicle</i>	<i>Seda Karadeniz Kartal, M. Kemal Leblebicioğlu</i>	<i>5619007</i>
<i>Some Problems of Fuzzy Modeling of Telecommunications Networks</i>	<i>Kirill Garbuzov, Alexey S. Rodionov</i>	<i>5551007</i>
<i>New Computational Methods for Spectrometer Signal Analysis</i>	<i>Petra Perner</i>	<i>5550007</i>
<i>Ridge Regression and Bootstrapping in Asthma Prediction</i>	<i>Ioannis I. Spyroglou, Eleni A. Chatzimichail, E. N. Spanou, E. Paraskakis, Alexandros G. Rigas</i>	<i>5615003</i>
<i>Quasi-Conformal Harmonic Mappings Related to the Janowski Starlike Functions</i>	<i>Melike Aydogan, Yasar Polatoglu, H. Esra Ozkan Ucar, Arzu Yemisci, Yasemin Kahramaner</i>	<i>5577007</i>
<i>On a Subclass of p-Valent Starlike Functions Associated with a Generalized Hypergeometric Differential Operator</i>	<i>Entisar El-Yagubi, Maslina Darus, Melike Aydogan</i>	<i>5577003</i>
<i>LQR Control of a Quadrotor Helicopter</i>	<i>Demet Canpolat Tosun, Yasemin Işık, Hakan Korul</i>	<i>5585007</i>

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM B': 11:00-14:00

Session: Applied Physics, Simulation, Computers and Networks I

Chair: Alexander L. Dmitriev, Junhui Hu

<i>Polarization Angle Independent Perfect Multi-Band Metamaterial Absorber in Microwave Frequency Regime</i>	<i>O. T. Gunduz, C. Sabah</i>	<i>5514007</i>
<i>Prospects of High-Frequency Gravimetry</i>	<i>Alexander L. Dmitriev</i>	<i>5539007</i>
<i>Detection Singular Polarization State by Multi-Order Diffractive Optical Element</i>	<i>Dmitry A. Savelyev, Nikolay L. Kazanskiy, Svetlana N. Khonina</i>	<i>5654003</i>
<i>A Novel Flexible Electrodynamical Planar Loudspeaker</i>	<i>Jium-Ming Lin, Ubadigha Chinweze Ukachukwu, Cheng-Hung Lin</i>	<i>5527003</i>
<i>Ensurance and Simulation of Electromagnetic Compatibility: Recent Results in TUSUR University</i>	<i>Talgat Gazizov, Alexander Melkozerov, Alexander Zabolotsky, Sergey Kuksenko, Pavel Orlov, Vasiliy Salov, Roman Akhunov, Ilya Kalimulin, Roman Surovtsev, Maxim Komnatnov, Alexander Gazizov</i>	<i>5606003</i>
<i>Silicon and CMOS-Compatible Spintronics</i>	<i>Viktor Sverdlov, Joydeep Ghosh, Alexander Makarov, Thomas Windbacher, Siegfried Selberherr</i>	<i>5574011</i>
<i>Progress in Ultrasonic Nano Manipulations</i>	<i>Junhui Hu, Qiang Tang, Xu Wang, Xiaofei Wang</i>	<i>5567003</i>

CONFERENCE ROOM C': 11:00-14:00

Session: Biology, Biomedical & Chemical Engineering and Materials Science I

Chair: Anton Semenchenko, Mohamed E. Khalifa

<i>Agent based Amino Acid Elongation Model: Influence of Ribosome Abundance on Polysome Formation</i>	<i>Anton Semenchenko, Allbens Atman</i>	<i>5662003</i>
<i>Rapid Screening 73 Antibiotic Drugs in Animal Feeds using Ultra-Performance Liquid Chromatography Coupled to FT-Orbitrap High Resolution Mass Spectrometry</i>	<i>Yu-An Sun, Qiuxia Zhang, Wei Ke, Zhenxing Li, Ke Wang, Guoqing Wang</i>	<i>5551003</i>
<i>The Effect of Filler Size, Rheology Control Agent Content and Temperature Variation on Viscosity of Epoxy</i>	<i>F.Nihal Tüzün</i>	<i>5575003</i>
<i>3D Biopolymer Scaffolds for Stem-Cell Culture in Biomedical Engineering</i>	<i>Q. T. Nguyen, E. Al Tawil, A. Monnier, B. Deschrevel</i>	<i>5656023</i>
<i>Drill-Ability Studies of Laser Drilled Micro Holes on CFRP Composites</i>	<i>Anarghya A., Yatheesha R. B., Gurumurthy B. M., Nitish Rao, Ranjith B. S.</i>	<i>5383003</i>
<i>Development of a Portable System for Vibration Stimulation to Improvement of Walking Stability</i>	<i>Park Min-Hwa, Kim Dong-Wook</i>	<i>5633023</i>
<i>Biological Impact of Certain Substituted Monoazo Thiazole-thiophene and Their Seleno Like Moieties: Part I</i>	<i>Mohamed E. Khalifa , Adil A Gobouri</i>	<i>5658015</i>

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM A': 14:00-17:00

Session: Pure and Applied Mathematics and Mathematical Methods II

Chair: Ciprian Sorandaru, Diana Bílková

<i>PMSG Wind System Control for Time-Variable Wind Speed by Imposing the DC Link Current</i>	<i>Ciprian Sorandaru, Sorin Musuroi, Gheza-Mihai Erdodi, Doru-Ionut Petrescu</i>	5628035
The Mathematical Model of Reflection of Plane Waves in a Transversely Isotropic Magneto-Thermoelastic Medium under Rotation	Abo-El-Nour N. Abd-alla, Fatimah Alshaikh	5612007
<i>Mathematical Modeling of Incheon Bridge, Structural Monitoring</i>	<i>Gheorghe M. T. Radulescu, Corina M. Radulescu, Adrian T. Radulescu</i>	5595047
<i>A Special Constant Acceleration Curve Equation</i>	<i>Mehmet Pakdemirli, İhsan Timuçin Dolapçı</i>	5588003
Molecular Dynamics Simulations for Lithographic Production of Carbon Nanotube Structures from Graphene	D. Fülep, I. Zsoldos, I. László	5596027
<i>Math-Statistical Models of Income Distribution: L-moments and TL-moments and Their Estimations</i>	<i>Diana Bílková</i>	5633047
<i>Generalized Real Numbers Pendulums and Transport Logistic Applications</i>	<i>A. P. Buslaev, A. G. Tatashev</i>	5633019
<i>The Decision Making Process in the System of Product Design and Planning based on Kansei Engineering</i>	<i>Kai-Shuan Shen</i>	5597007

CONFERENCE ROOM B': 14:00-17:00

Session: Applied Physics, Simulation, Computers and Networks II

Chair: Bruno Carpentieri, Sébastien Le Yaouanq

<i>Plastic Deformation and Fracture Processes in Layered Metal-Graphene Composites and Polycrystalline Graphene</i>	<i>Ilya A. Ovid'ko, Alexander G. Sheinerman</i>	5573007
<i>¹H NMR study of water clusters in supercooled LiCl/water solution</i>	<i>Carmelo Corsaro, Domenico Mallamace, Nicola Cicero, Sebastiano Vasi, Giacomo Dugo, Francesco Mallamace</i>	5658011
Math Modelling of the Basic Defensive Activities	Jan Mazal, Petr Stodola, Libor Kutěj, Milan Podhorec, Dana Křišťálová	5595055
<i>Co-Simulation of Redundant and Heterogeneous Modelling Scales for a Phenomenological Approach</i>	<i>Sébastien Le Yaouanq, Christophe Le Gal, Pascal Redou, Jacques Tisseau</i>	5595051
<i>The Structural Constant of an Atom as the Basis of Some Known Physical Constants</i>	<i>Milan Perkovic</i>	5604007
Mobility State Classification with Particle Filter	Ha Yoon Song, Ji Hyun Baik	5596007
Lossless Compression of Multidimensional Medical Images	Raffaele Pizzolante, Bruno Carpentieri	5609011

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM C': 14:00-17:00

Session: Circuits, Systems, Signal Processing, Communications & Computers I

Chair: Andrei Pasca, Michal Kvet

<i>Temporal Data Approach Performance</i>	<i>Michal Kvet</i>	<i>5578039</i>
<i>Modification of the Cryptographic Algorithms, Developed on the Basis of Nonpositional Polynomial Notations</i>	<i>Rustem G. Biyashev, Saule E. Nyssanbayeva, Yenlik Ye. Begimbayeva, Miras M. Magzom</i>	<i>5593007</i>
Synchronous Differential Logic Gate for Low Clock Swing Operation with Standing Wave Clock Distribution Networks	Andrei Pasca	5593011
<i>Fuzzy Method for Suppressing of Different Noises in Color Videos</i>	<i>Volodymyr Ponomaryov</i>	<i>5600003</i>
Lossless, Multiband, on Board, Compression of Hyperspectral Images	Bruno Carpentieri, Raffaele Pizzolante	5603003
Extending the Matrix Vector Transition Net Approach for Modeling Interaction	A. Spiteri Staines	5483007
Question-Answering Systems in the Specific Domain of E-Government	A. Beltrán, S. Ordoñez, S. Monroy, L. Melo, N. Duarte	5391011

Coffee Break: 17:00-17:30

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM A': 17:30-20:30

Session: Pure and Applied Mathematics and Mathematical Methods III

Chair: Olga Martin, Matteo D. L. Dalla Vedova

Advance Trends of Hybrid Electric Vehicles	Shahram Javadi	5512015
Scorpion Envenomation in Naama, Algeria	Schehrazad Selmane	5416003
Adaptive Spline Processing of Discrete Flow	Irina Burova, Yu. K. Dem'yanovich	5630015
<i>Effects of Dry Friction on Linear Electromechanical Actuators: A New Prognostic Method based on Simulated Annealing Algorithm</i>	Matteo D. L. Dalla Vedova, Paolo Maggiore, Lorenzo Pace	5591027
<i>Bounds on the Generalized Krein Parameters of an Association Scheme</i>	Vasco Moco Mano, Luis Almeida Vieira	5628027
<i>Study of a Neutron Transport Problem by the Variational Iteration Method</i>	Olga Martin	5590015
<i>Stability Analysis and Special Solution of the Perturbation $K(n,m)$ Rosenau-Hyman equation</i>	Abdon Atangana, Dumitru Baleanu	5591011
<i>Onboard Electromechanical Actuators Affected by Motor Static Eccentricity: A New Prognostic Method based on Spectral Analysis Techniques</i>	Dario Belmonte, Matteo D. L. Dalla Vedova, Paolo Maggiore	5591019
<i>Performance Estimate for a Proton Exchange Membrane Fuel Cell: Sensitivity Analysis Aimed to Optimization</i>	Enrico Testa, Paolo Maggiore, Lorenzo Pace, Matteo D. L. Dalla Vedova	5591023

CONFERENCE ROOM B': 17:30-20:30

Session: Applied Physics, Simulation, Computers and Networks III

Chair: Chara Remoundou, Anna Sandulyak

<i>Photonic Crystal Cavities for Optical Signal Processing</i>	Nikolay L. Kazanskiy, Pavel G. Serafimovich	5584003
<i>On Adaptation Possibility of Model based on Slow Flow around Sphere for Determination of Flow Local Speeds in Window Between Spheres</i>	Anna Sandulyak, Darya Sandulyak, Olga Semina, Alexander Sandulyak	5376001
Chromatic Aberrations of Diffractive Elements in Pulsed Laser Beams Formation	Alexey P. Porfiriev, Sergey A. Degtyarev, Svetlana N. Khonina, Nikolai L. Kazanskiy	5660015
<i>A Generalized Hebb (GH) Rule Based on a Cross-Entropy Error Function for Deep Belief Recursive Learning</i>	Mark J. Embrechts, Bernhard Sick	5630003
<i>Towards Community Recommendations on Location-Based Social Networks</i>	Chara Remoundou, Pavlos Kosmides, Konstantinos Demestichas, Ioannis Loumiotis, Evgenia Adamopoulou, Michael Theologou	5629007
Face-Recognition Based Authentication: Theory and Practice	Thomas Fenzl, Christian Kollmitzer, Stefan Rass, Peter Schartner	5656007

INASE CONFERENCES: Sunday March 15th 2015

CONFERENCE ROOM C': 17:30-20:30

Session: Biology, Biomedical & Chemical Engineering and Materials Science II

Chair: Derya Avci, C. Atupelage

<i>Grayscale and Binary Image Enhancement of Hand Vein Images to Aid Peripheral Intravenous Access</i>	<i>Marlina Yakno, Junita Mohamad-Saleh, Bakhtiar Affendi Rosdi</i>	5635007
<i>The Mechanism of PMF Nanoparticles in Invading A549 cells, A New Selective Drug Delivery for Cancer Therapy</i>	<i>Gehan A-R. Ahmed, Faten A. Khorshid, Alaa Khedr, Salem M. El-Hamidy, Numan A. Salah</i>	5627035
An Intelligent Diagnosis System based on Extreme Learning Machine For Diabetes Diseases	Resul Coteli	5452003
An Automatic Diagnosis System for Hepatitis Diseases based on Extreme Learning Machine	Derya Avci	5499003
A Novel Automatic Thresholding Method based on Shape of Histogram for Microscopic Blood Cell Images	Engin Avci, Turker Tuncer, Resul Coteli, Esin Dogantekin	5441003
New Sulfamates on the Basis of 8α -Analogues of Steroid Estrogens with Selective Mode of Action Against Breast Cancer	A. F. Fidarov, S. N. Morozkina, S. I. Selivanov, R. A. Kovalev, M. V. Filatov, A. G. Shavva	5625019
An Intelligent Diagnostic System for Lung Cancer based on Principle Component Analysis - Wavelet Support Vector Machines Classifiers	Derya Avci	5501003
<i>Planckian Distributions in Molecular Machines, Living Cells, and Brains: The Wave-Particle Duality in Biomedical Sciences</i>	<i>Sungchul Ji</i>	5630035
Cytoplasmic Motion Visualization and Analysis of <i>C. elegans</i> Embryo	C. Atupelage, K. Kyoda, S. Onami, H. Nagahashi	5602003

INASE CONFERENCES: Sunday March 15th 2015

POSTER PRESENTATIONS

New Results on Stability of Hybrid Stochastic Systems	Manlika Rajchakit	5402003
Topological Optimization of Lake Aeration Process	Mohamed Abdelwahed	5434003
A Comprehensive Analysis of XML and JSON Web Technologies	Zia Ul Haq, Gul Faraz Khan, Tazar Hussain	5443003
Speech Enhancement using Rao-Blackwellised Particle Filtering of the Real and Imaginary DFT Coefficients Part	M. Meddah, A. Amrouche, A. Taleb-Ahmed	5480003
The Video Game as Practice for Developing Virtual Reality Sports Jumping Skills in Children 5 Years. Case Study of Innovative Practices in Educational Institutions of Bogotá, Colombia	J. Lopez, L. Coy, J. Caviativa, Y. Guzman, A. Gutierrez	5376003
Mathematical Model of Two-Links Mechanism Movement at Discrete Control Actions	Sergey Jatsun, Sergei Savin, Petr Bezmen	5600011
A Modified Adaptive Line Enhancer for Noisy Speech Signals	Maha Sharkas, M. Essam Khedr, Amr Nasser	5403003
Exponential Stability of Linear Hybrid Systems with Interval Time-Varying Delays	Grienggrai Rajchakit	5412003
Automatic Censoring in K-Distribution for Multiple Targets Situations	N. Boudemagh, Z. Hammoudi	5483003
Modeling of a Small Unmanned Aerial Vehicle	Ahmed Elsayed Ahmed, Hossam Eldin Hussein Ahmed, Ashraf Hafez, Hala Mohamed Abd-Elkader, A. N. Ouda	5488003
Monitoring Metropolitan City Air-quality using Wireless Sensor Nodes based on ARDUINO and XBEE	Ali Al-Dahoud, Mohamed Fezari, Ismail Jannoud, Thamer AL-Rawashdeh	5465003
Swarm Intelligence Optimization of Lee Radio-wave Propagation Model for GSM Networks in Irbid	M. S. H. Al Salameh, M. M. Al-Zu'bi	5464003
A Recognition and Synthesis Environment for the Arabic Language	Tebbi Hanane, Hamadouche Maamar, Azzoune Hamid	5463003
Image Encryption using Development of Chaotic Logistic Map based on Feedback Stream Cipher	Hossam Eldin H. Ahmed, Ayman H. Abd El-aziem	5461007
Modeling and Analysis of Elapsed Time and Energy Consumption of Interactive Applications in Mobile Cloud Computing Environments	Young-Chul Shim	5472003
CFD Simulation of Free Convection Heat Transfer in a Vertical Conical Partially Annular Space	B. Ould said, N. Retiel, E. H. Bouguerra	5475011
Improved Non-local Algorithm with Reliability of Neighbor Pixel	J. Lee, J. Jeong	5474003
Control of Interferograms Image of Deformed Object Samples by Non Destructive Control as Optical Method	R. Daira	5481003
Modelling Plasticity of Materials with a Micro and Nanostructure	Natalia R. Kudinova, Anatoli M. Polyanskiy, Vladimir A. Polyanskiy, Yuriy A. Yakovlev	5642027

INASE CONFERENCES: Sunday March 15th 2015

POSTER PRESENTATIONS

Polarization-Insensitive Perfect FSS Metamaterial Absorber in THz Frequency Range	C. Sabah, F. Dincer, M. Karaaslan, E. Unal, O. Akgol	5514015
Polarization Angle Independent Perfect Metamaterial Absorber	C. Sabah, F. Dincer, E. Demirel, M. Karaaslan, E. Unal, O. Akgol	5514011
Experimental Human Machine Interface System based on Vowel and Short Words Recognition	Mohamed Fezari, Ali Al-Dahoud	5512007
A Stateless Key Management Technique for Protection of Sensitive Data at Proxy Level for SQL Based Databases Using NIST Recommended SP800-132	Kurra Mallaiah, S. Ramachandram	5659007

INASE CONFERENCES: Monday March 16th 2015

CONFERENCE ROOM A': 09:00-12:00

Session: Mechanics and Mechanical Engineering I

Chair: Olivier Bareille, Kaige Wu

Corrosion Damage Monitoring of Stainless Steel by Acoustic Emission	Kaige Wu, Seung-Mi Lee, Won-Sik Lee, Dong-Pyo Hong, Jai-Won Byeon	5498003
Forward Kinematic Analysis of an Industrial Robot	Daniel Constantin, Marin Lupoae, Cătălin Baci, Dan-Ilie Buliga	5592019
Advanced Approaches for Mechanical Characterization on Innovative Materials	C. Barile, C. Casavola, G. Pappalettera, C. Pappalettere	5643019
<i>Design and Experiment of Miniaturized and Low-Cost Robotic Fish with Customerized Electromagnetic Actuation</i>	<i>Zhiqing Qian, Hongzhou Liu, Zhuming Bi</i>	<i>5597019</i>
<i>Approach to Solving the Problem of Vibration during the Drilling Phase 81/2" in an Oil Southern Algerian Fields</i>	<i>A. Mellak, K. Benyounes</i>	<i>5613003</i>
Numerical Study Regarding the Behaviour of a Multilayer Slab on Shock and Impact	Marin Lupoae, Cătălin Baci, Daniel Constantin, Dumitru Matahala, Dan-Ilie Buliga	5592023
The Performance Measurement of the Parabolic trough Solar Collector	Jozef Matusov, Peter Durcansky, Richard Lenhard	5598027
<i>Self-Organization of the Dynamic Cutting System</i>	<i>Zakovorotnyy V.</i>	<i>5629015</i>
<i>Propagative Interactions of Guided Waves in Structured Plates</i>	<i>Olivier Bareille, Christophe Droz, Jean-Pierre Laine, Mohamed N. Ichchou</i>	<i>5628007</i>

CONFERENCE ROOM B': 09:00-12:00

Session: Environmental Science and Geoscience I

Chair: Pavla Pekarova, Jesús M. Blanco

Model Parameters Estimation in Two River Basins in Slovakia and Korea	Pavol Miklanek, Hyosang Lee, Pavla Pekárová, Michal Danko	5502015
<i>Environmental Impact Test in Thermal Power Plants; Experimental and CFD Evaluation of Burning Alternative Fuels</i>	<i>Jesús M. Blanco, Lakhdar Remaki, Francisco Peña</i>	<i>5632007</i>
The Water Temperature Simulation in the Morava River Basin Watercourses	Dana Halmova, Pavla Pekarova, Jan Pekar, Katarina Kucarova	5503003
Flash Flood on July 21, 2014 in the Vratna Valley	P. Pekarova, V. Bacova Mitkova, P. Miklanek	5502007
Development of Land Use in the Morava River Floodplain During the Past 175 Years	Vilém Pechanec, Ivo Machar, Helena Kilianová	5592003
Measurement Results of Longitudinal Dispersion Coefficient in Urban Sewer Networks under Dry Weather Conditions	Marek Sokáč, Yvetta Velísková	5504003

Coffee Break: 12:00-12:30

INASE CONFERENCES: Monday March 16th 2015

CONFERENCE ROOM A': 12:30-15:30

Session: Pure and Applied Mathematics and Mathematical Methods IV

Chair: Ricardo Riaza, Takao Ito

Prediction and Evaluation of Response to Breast Cancer Chemotherapy by Use of Multifractal Analysis	Jelena Vasiljevic, Jelena Pribic, Ksenija Kanjer, Wojtek Jonakowski, Jelena Sopta, Dragica Nikolic Vukosavljevic, Marko Radulovic	5478003
<i>Stability Breakdown along a Line of Equilibria in Nonlinear Circuits with Memristors</i>	<i>Ricardo Riaza</i>	<i>5471003</i>
Numerical Calculation of the Magnetic Field Produced by a Multi-Conductor Power Cable	Dumitru Toader, Iulia Cata, Constantin Blaj, Alina Lihaciu	5656035
<i>Systems Optimization Prospected from Torus Cyclic Groups</i>	<i>Volodymyr V. Riznyk</i>	<i>5634003</i>
Multiobjective Genetic Algorithm-Based for Time-Cost Optimization	Jorge Magalhães-Mendes	5428007
<i>Inter-Firm Transactional Relationship in Yokokai using IDE Spatial Model: An Empirical Investigation</i>	<i>Takao Ito, Rajiv Mehta, Tsutomu Ito, Makoto Sakamoto, Satoshi Ikeda, Seigo Matsuno, Yasuo Uchida</i>	<i>5608019</i>
<i>A Mathematical Model of Hierarchical Organization</i>	<i>Satoshi Ikeda, Takao Ito, Makoto Sakamoto</i>	<i>5608015</i>
<i>Modeling the Virtual Machine Allocation Problem</i>	<i>Zoltán Ádám Mann</i>	<i>5614011</i>

CONFERENCE ROOM B': 12:30-15:30

Session: Circuits, Systems, Signal Processing, Communications & Computers II

Chair: Andrei Pasca, Andrei Rusan

Clock Distribution using a Bi-Dimensional Orthogonal Salphasic Structure	Andrei Pasca	5555003
<i>Parallel Adaptive Arbiter for Improved CPU Utilization and Fair Bandwidth Allocation</i>	<i>M. Nishat Akhtar, Junita Mohamad-Saleh</i>	<i>5604019</i>
Urban Traffic Management Approach based on Ontology and VANETS	H. Touluni, B. Nsiri, M. Boulmalf, T. Sadiki	5476003
<i>Alternative Approach to Enable RTSP-based Services with Dynamic Quality of Service over 4G LTE Mobile Networks</i>	<i>Andrei Rusan, Radu Vasiu</i>	<i>5633039</i>
Location Search by using Phonetic Algorithm with Location-Based Service	Kittiya Poonsilp, Attakorn Poonsilp	5502003
Novel M-ary PPM Time Hopping Scheme for UWB Communications	Said Ghendir, Salim Sbaa, Riadh Ajgou, Ali Chemsia, A. Taleb-Ahmed	5505003
Semantic Web Technologies and Model-Driven Approach for the Development and Configuration Management of Intelligent Web-Based Systems	Arturs Bartusevics, Andrejs Lesovskis, Leonids Novickis	5596019

INASE CONFERENCES: Monday March 16th 2015

Coffee Break: 15:30-16:00

CONFERENCE ROOM A': 16:00-19:00

Session: Mechanics and Mechanical Engineering II

Chair: H. Esen, K. Adamek

Biocomposite Silicone: Synthesis, Mechanical Testing and Analysis	Siti Noor Azizzati Mohd Noor, Mohd Arif Fikri Khairuddin, Jamaluddin Mahmud	5576007
<i>The One and Two Dimensional Wavelet Transform Applied in Unsteady Industrial Phenomena</i>	A. Amoresano, C. Allouis, G. Langella, V. Niola, G. Quaremba	5614007
<i>Permeability of Winding on the Bobbin Core</i>	K. Adamek	5629023
<i>GDI Spray Impact Characterization by Optical Techniques for the Assessment of 3D Numerical Models</i>	Luigi Allocca, Michela Costa, Alessandro Montanaro, Ugo Sorge	5618003
Modelling of Biogas, Solar and a Ground Source Heat Pump Greenhouse Heating System by using Ensemble Learning	H. Esen, M. Esen, T. Yuksel	5456007
Methodology Framework for Surface Shape Evaluation	A. Cupar, J. Kaljun, V. Pogacar, Z. Stjepanovic	5633031
Numerical experiments on the performance of the RBF meshfree Galerkin Methods for solid mechanics	Abderrachid Hamrani, Eric Monteiro, Idir Belaidi, Philippe Lorong	5502011

CONFERENCE ROOM B': 16:00-19:00

Session: Applied Physics, Simulation, Computers and Networks IV

Chair: Ioan Both, Nico Assink

<i>Variable Cosmological Parameter and S-channel Quantum Matter Fields Hadamard Renormalization in Spherically Symmetric Curved Space Times</i>	Hossein Ghaffarnejad	5635003
<i>Neural Networks Based Feature Selection from KDD Intrusion Detection Dataset</i>	Adel Ammar, Khaled Al-Shalfan	5574007
<i>The Impact of Memristive Devices and Systems on Nonlinear Circuit Theory</i>	Ricardo Rianza	5595003
<i>Does Time Pressure Induce Tunnel Vision? An Examination with the Eriksen Flanker Task by Applying the Hierarchical Drift Diffusion Model</i>	Nico Assink, Rob H. J. Van Der Lubbe, Jean-Paul Fox	5624003
<i>Complex Social Network Interactions in Coupled Socio-Ecological System: Multiple Regime Shifts and Early Warning Detection</i>	Hendrik Santoso Sugiarto, Lock Yue Chew, Ning Ning Chung, Choy Heng Lai	5568003
<i>Numerical Simulations of a Pipeline Crossing</i>	Ioan Both, Adrian Ivan	5566015

Conference Banquet: 20:30

INASE CONFERENCES: Monday March 16th 2015

POSTER PRESENTATIONS

Efficient Media Digital Library Design of Summarized Video based on Scalable Video Coding for H.264 (MDLSS)	Hesham Farouk, Kamal EIDahshan, Amr Abozeid, Mayada Khairy	5518003
On Selection of Efficient Fuzzy Models Incorporated with Multi-Objective Reactive Power Control	Ragab A. El Sehiemy	5516011
Effect of Flow Characteristics on the Heat Transfer Performance Across Low-Finned Fin Banks	Seif A. Ahmed	5532003
The method of Probabilistic Nodes Combination in Simulation and Modeling	Dariusz J. Jakóbczak	5525003
Navier-Stokes Equations-Millennium Prize Problems	Asset Durmagambetov, Leyla Fazilova	5540003
Scaling-Up Liquid-Liquid Extraction Experiments with Deep Eutectic Solvents	Emad Ali, Sarwono Mulyono, Mohamed Hadj-Kali	5536007
Chemical Composition and Antibacterial Activity of Ceratonia Siliqua L. Growing in Boumerdes (Algeria)	N. Meziou-Chebouti, A. Merabet, N. Behidj, M. Kirouani, S. Aliouat	5535007
Modelling of Exoskeleton Movement in Verticalization Process	Sergey Jatsun, Sergei Savin, Petr Bezmen	5600007
Determination of Elastic Modulus of Cortical Bone using Small Punch Testing and Inverse Finite Element Method	N. K. Sharma, M. K. Yadav, D. K. Sehgal, R. K. Pandey	5572007
On DC/DC Voltage Buck Converter Control Improvement through the QFT Approach	Luis Ibarra, Israel Macías, Pedro Ponce, Arturo Molina	5598011
On-line Monitoring of Yogurt Fermentation using Ultrasonic Characteristics	Ahmad Aljaafreh, Ralf Lucklum	5596003
Decision Making in Group Process of Consensus Based on Structures of Decision Dynamics: Application to the Superior Council of the UTEM	Munoz S. Simon, Zapata C. Santiago	5595043
Gradient-Statistical Algorithm for Calculating Critical Points of Density Probability of Gaussian Mixture	N. N. Aprausheva, V. V. Dikusar, S. V. Sorokin	5595039
Migration of Travel Time in a Common-Shot Gather by Structural Similarity	Hernando Castañeda M., José Luciano Maldonado, Rómulo Sandoval F.	5593003
EH-WSNs Optimizing Technique	Vladimir Shakhov	5591035
Dual Approach to Complex Ecological System Analysis and Modeling	Migdat Hodzic, Mirsad Hadzikadic, Ted Carmichael, Suvad Selman	5595027
Product Generation Development – Importance and Challenges from a Design Research Perspective	Albert Albers, Nikola Bursac, Eike Wintergerst	5599011
Optimal Problems with Control-State Constraints in a Regional Economy Model Identification	Vasily V. Dikusar, Nicholas N. Olenev, Marek Wojtowicz	5593015

INASE CONFERENCES: Monday March 16th 2015

POSTER PRESENTATIONS

Point Triangulation using Convex Layers	V. Tereshchenko, Y. Tereshchenko	5589003
A Hybrid System for Identification of Elastic, Isotropic Thin Plate Parameters Applying Lamb Waves and Artificial Neural Networks	Zenon Waszczyszyn, Ewa Pabisek	5622003
Unifying Geometric Features and Facial Action Units for Improved Performance of Facial Expression Analysis	Mehdi Ghayoumi, Arvind K. Bansal	5578047
Hall Current Effect on MHD Free Convection Flow an Inclined Porous Plate with Constant Heat Flux	G. Venkata Ramana Reddy	5587007

INASE CONFERENCES: Tuesday March 17th 2015

CONFERENCE ROOM A': 09:00-12:00

Session: Pure and Applied Mathematics and Mathematical Methods V

Chair: Sergio Ortobelli, Steward H. Huang

Bayesian Multivariate Growth Curve Models	Steward H. Huang	5634015
<i>On the Use of Conditional Expectation Estimators</i>	<i>Sergio Ortobelli, Tommaso Lando</i>	<i>5598015</i>
<i>Longitudinal Dispersion Coefficient as Sensitivity Parameter in Water Quality Simulation Model</i>	<i>Yvetta Velísková, Marek Sokáč</i>	<i>5636003</i>
<i>Normalizations of the Proposal Density in Markov Chain Monte Carlo Algorithms</i>	<i>Antoine E. Zambelli</i>	<i>5429003</i>
Features Gas Explosion in a Cylindrical Tube with a Hole on the Side	Iurii H. Polandov, Vitaly A. Babankov, Sergei A. Dobrikov	5608003
<i>Informetric Models for Citation Frequency Data: An Empirical Investigation</i>	<i>Lucio Bertoli-Barsotti, Tommaso Lando</i>	<i>5598019</i>
<i>One Approach to the Design of TS Fuzzy Fault Detection Filters</i>	<i>Dusan Krokavec, Anna Filasova, Vratislav Hladky</i>	<i>5619003</i>
Introduction and Simulation of a New Model of Phantom by Monte Carlo to Obtain Depth Dose	Seyed Alireza Mousavi Shirazi	5498015
On the Financial Applications of Multivariate Stochastic Orderings	Sergio Ortobelli, Tomas Tichy, Tommaso Lando, Filomena Petronio	5590007

INASE CONFERENCES: Tuesday March 17th 2015

CONFERENCE ROOM B': 09:00-12:00

Session: Economics and Statistics

Chair: José António Porfírio, Martin Schindler

<i>Conditions for Entrepreneurship Development in Creative Industries in Portugal</i>	<i>José António Porfírio, Tiago Carrilho</i>	<i>5648007</i>
<i>Challenges of Strategic Rethinking of Development of Travel Intermediaries in Croatia in Terms of Dynamic Environment</i>	<i>Iris Mihajlovic</i>	<i>5626003</i>
<i>The Contribution of the Averaged Regression Quantiles for Testing Max-Domains of Attractions</i>	<i>Jan Picek, Martin Schindler</i>	<i>5627003</i>
<i>Academic Self-Regulation in the Context of Education in Early Adolescence</i>	<i>Burešová I., Klimusová H., Kabeláčová, J.</i>	<i>5486003</i>
Loss Distributions in Insurance Risk Management	Viera Pacáková, David Brebera	5598023
Modeling Value at Risk of Agricultural Commodity Futures while Accounting for Seasonality and Weather Using Extreme Value Theory	Xue Gong, Songsak Sriboonchitta, Sanzidur Rahman	5498007
The Economics of Pharmaceuticals in Central and Eastern Europe: A Focus on Generics, Research, and Development	Steven Szydlowski, Robert Babela	5613011
Training and Work Skills	Maria José Sousa	5625035

Coffee Break: 12:00-12:30

INASE CONFERENCES: Tuesday March 17th 2015

CONFERENCE ROOM A': 12:30-15:30

Session: Circuits, Systems, Signal Processing, Communications & Computers III

Chair: Taeil Yi, Shayma M. Al-Ani

<i>Teachers' Perception on Free Screen Capture Software</i>	<i>Taeil Yi</i>	5578043
System for the Detection Earthquake Victims – Construction and Principle of Operation	C. Buzduga, A. Graur, C. Ciufudean, V. Vlad	5579003
<i>Irregular Segmentation Technique for the Image Compression using Stochastic Models</i>	<i>Benabdellah Yagoubi</i>	5530115
<i>Integrated Visual-Perception Real-Time Monitoring System</i>	<i>Jian-Wei Li, Fu-Syuan Yang, Yi-Chun Chang, Yen-Lun Chiu</i>	5625003
Interoperability for an Observatory of Habits and Healthy Life Styles Related with Physical Activity	Andrea Torres Ruiz, Fernando Prieto B., Jose Arturo Lagos, Nixon Duarte, Rosmary Martinez, Juan Pablo Moreno, Aldo Vilardy, Bryan Toro	5485015
Prediction of Cancer Behavior based on Artificial Intelligence	Shayma M. Al-Ani, Maysma Abbod	5474007

CONFERENCE ROOM B': 12:30-15:30

Session: Applied Physics, Simulation, Computers and Networks V

Chair: Vitaly O. Groppen, Ivan R. Kennedy

Influence of the Applied Electric Field on the Growth of an Electrical Discharge	L. Zeghichi, L. Mokhnache, M. Djebabra	5547003
The Gravity Control Experiments: Sensors, Equipment, Results	Vitaly O. Groppen	5565003
The First Principles Study on the TbP Compound	Y. O. Ciftci, Y. Mogulkoc, M. Evecen	5599007
<i>The Simulation of Negative Influences in the Environment of Fixed Transmission Media</i>	<i>Rastislav Róka</i>	5630007
<i>Effect of Precursor on Growth of MoS2 Monolayer and Multilayer</i>	<i>Shraddha Ganorkar, Jungyoon Kim, Young Hwan Kim, Seong-Il Kim</i>	5598031
<i>Testing Planetary Atmospheres for Operation of the Virial Theorem: A Logical Computer Analysis May Discredit Radiative Forcing by Greenhouse Gases as the Sole Cause of Global Warming</i>	<i>Ivan R. Kennedy</i>	5573003

Coffee Break: 15:30-16:00

INASE CONFERENCES: Tuesday March 17th 2015

CONFERENCE ROOM A': 16:00-19:00

Session: Environmental Science and Geoscience II

Chair: Gunter Spöck, Jaroslav Burian

Urban Planner – Model for Land Use Suitability Assessment	Jaroslav Burian, Jan Brus, Stanislav Stastny	5509003
Architectural Education in the Light of Climate Change - Case Study: Agrarian Landscape as a Resource for a New Sustainable Lifestyle	Ana Nikezić, Dragan Marković	5608023
<i>Safety of Critical Facilities</i>	<i>Dana Prochazkova</i>	<i>5391015</i>
<i>Infiltration Efficiency of Percolation Facility for its Safety Operation</i>	<i>Gabriel Markovič, Daniela Kaposztásová, Zuzana Vranayová</i>	<i>5608007</i>
<i>Taking Account of Covariance Estimation Uncertainty in Spatial Sampling Design for Prediction with Trans-Gaussian Random Fields</i>	<i>Gunter Spöck, Jürgen Pilz</i>	<i>5597015</i>
Measuring Devices for Visualization of WJM and AWJM Technologies Physical Factors	Peter Poor, Michal Simon, Lýdia Sobotová, Monika Karkova	5544003
Grey Water System Application – Water Savings and Use in the Hotel Building	Martina Rysulová, Daniela Káposztásová, Zuzana Vranayová	5590011
Polarimetric Contrast Microscopy of Textile Materials	Michal Vik, Martina Vikova, Sayed Ali Ibrahim, Nayab Khan	5630027

INASE CONFERENCES: Tuesday March 17th 2015

CONFERENCE ROOM B': 16:00-19:00

Session: Pure and Applied Mathematics and Mathematical Methods VI

Chair: I. David, Otilia Dragomir

<i>Mathematical Modelling of Groundwater Flow Coupled with Internal Flow in Drainage Pipe Situated in a Bounded Shallow Aquifer</i>	<i>I. David, C. Grădinaru, C. Gabor, I. Vlad, C. Ștefănescu</i>	<i>5629019</i>
<i>Mathematical Modelling of Groundwater Flow in Aquifers which Contain Extraction/infiltration Cavity of Arbitrary Shape, using the Theory of Functions of a Complex Variable</i>	<i>I. David, C. Ștefănescu, C. Grădinaru, I. Vlad, C. Gabor</i>	<i>5602007</i>
<i>The Tactical Model based on a Multi-Depot Vehicle Routing Problem</i>	<i>P. Stodola, J. Mazal</i>	<i>5542003</i>
<i>Simulation Study of Using Shift Registers Based on 16th Degree Primitive Polynomials</i>	<i>Mirella Amelia Mioc</i>	<i>5628003</i>
<i>Modeling and Simulation of a 12kW Direct Driven PM Synchronous Generator of Wind Power</i>	<i>A. Senthil Kumar, Thomas Cermak, Stanislav Misak</i>	<i>5644023</i>
<i>Application of the Orthogonal Invariants of Three-Dimensional Operators in some Hydrodynamic Problems and Hubble Expansion Law</i>	<i>Ilia R. Lomidze</i>	<i>5558015</i>
<i>Fuzzy-Multi Agent Hybrid System for Decision Support of Consumers of Energy from Renewable Sources</i>	<i>Otilia Dragomir, Florin Dragomir, Eugenia Minca</i>	<i>5581003</i>

INASE CONFERENCES: Tuesday March 17th 2015

POSTER PRESENTATIONS

Finite Element Analysis of Debonding Propagation in FM73 Joint under Static Loading	Reza Hedayati, Meysam Jahanbakhshi	5579011
Prediction of Fatigue Crack Propagation in Bonded Joints Using Fracture Mechanics	Reza Hedayati, Meysam Jahanbakhshi	5579007
Numerical Study of Energy Separation in Counter-Axial Flows	R. Manimaran	5617003
Nanomaterials Synthesis in Combustion	Z. A. Mansurov	5615007
An Optimal Manner of Distribution of Drinking Water using Heuristic Method	Abdullah Al-Hossain, Said Bourazza	5592027
A Compact Microstrip Lowpass Filter using a Stepped Impedance Hairpin Resonator with Radial Stubs	M. Samadbeik, B. F. Ganji, A. Ramezani	5611003
Certain Integrable Cases in Dynamics of a Multi-Dimensional Rigid Body in a Nonconservative Field	Maxim V. Shamolin	5610003
Predictive Robots Programming based on Imitation Strategy	A. Fratu, M. Fratu	5634011
Photocatalytic Oxidation and Morphology Control of TiO ₂ Film	Jinshu Wang, Bingxin Zhao, Hongyi Li	5634007
Dynamic Modeling and Parametric Analysis on Nonlinear Vertical Cutting Process with Variable Stiffness	Mahmood Reza Mehran, Mehdi Mehran	5632003
Math Modeling of Underground Water Infiltration in Exhausted Gas Deposit	Irina N. Polshkova	5630019
Time of flight Measurement Method to Determine the Milk Coagulation Cut Time	Mourad Derra, Abdellah Amghar, Hassan Sahah	5628039
Multi-Element Circuits based on LCLC Resonant Tank - Theory and Application	Branislav Dobrucky, Juraj Koscelnik	5627039
Rigid Non-Archimedean Spaces and Applications	Nikolaj Glazunov	5625063
Double Check of Optimization Results Using Neural Network and Statistical Methods	Natalja Fjodorova, Marjana Novič	5623003
Some Recent Advances of Ultrasonic Diagnostic Methods Applied to Materials and Structures (Including Biological Ones)	L. Nobile, S. Nobile	5643007