

**Conference Program
INASE events**



**Agios Nikolaos, Crete, Greece,
October 17-19, 2015**

Scientific Sponsors:

University of Salerno, Italy



Technical University of Sofia, Bulgaria



Conference Location:

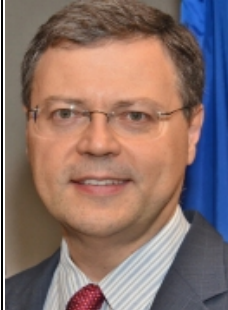
**Dessole Mirabello Beach & Village
Havana, Agios Nikolaos, 72100, Crete, Greece**

Saturday 17th October 2015

Conference Room: A

Time: 09:15-10:00

Plenary Lecture 1:



A Comparison of Evolutionary Algorithms to Construct Phylogenetic Trees and Language Families

by Professor Peter Z. Revesz

Department of Computer Science and Engineering
University of Nebraska-Lincoln, USA.

Conference Room: A

Time: 10:00-10:45

Plenary Lecture 2:



Short Term and Asymptotic Properties of Minimal-Exploration Sequential Allocation Rules

by Professor Michael N. Katehakis

Rutgers University, NJ, USA.

10:45-11:15: Coffee Break

Conference Room: A

Time: 11:15-12:00

Plenary Lecture 3:



Knowledge Processing through Parameter Identification and Computer Aided Scale Up/Down in Engineering

by Professor Fragiskos Batzias

Laboratory of Simulation of Industrial Processes, Department of Industrial Management and Technology, School of Maritime and Industry, University of Piraeus, Greece

Saturday 17th October 2015

Conference Room: A

Time: 12:00-14:00

AMCS '15: Computational Methods

Chair: Peter Z. Revesz, G. Mehdiyeva

A Computational Model of the Spread of Ancient Human Populations Based on Mitochondrial DNA Samples	Peter Z. Revesz	6130003
Mutations of Adjacent Amino Acid Pairs are not Always Independent	Jyotsna Rmanan, Peter Revesz	6212003
An Incremental Phylogenetic Tree Algorithm Based on Repeated Insertions of Species	Peter Z. Revesz, Zhiqiang Li	6084003
Human-Centered Architecture of a Medical Cyber-Physical System	Razvan Popescu, Theodora Dumitrescu, Radu Dobrescu	6138007
The Hybrid Methods are 60 Years in the Scientific Works	G. Mehdiyeva, V. Ibrahimov, M. Imanova	6151007
An Empirical Analysis of the Causality Relationship Between Insurance and Economic Growth. The Case of Hungary and Romania	Ana-Maria Burca, Daniel Armeanu, Ghiorghe batrinca	6117003
Design of an Intelligent System for Disasters Management	Theodora Dumitrescu, Razvan Popescu, Radu Dobrescu	6145003
Automatically Diagnosis of Suspicious Lesions in Mammograms	A. Elmoufidi, K. El Fahssi, S. Jai-Andaloussi, A. Sekkaki, G. Quellec, M. Lamard, G. Cazuguel	6181003

Saturday 17th October 2015

Conference Room: B

Time: 12:00-14:00

CSSP '15: Circuits, Systems and Signal Processing

Chair: Houda Ben Mansour, Khalid El Fahssi

Benign or Malignant Lesion Classification in Mammography Images Using the Adaptive Orthogonal Transformation and the Coefficients of the Correlation Matrix	Khalid El Fahssi, El Moufdi, Abdenbi Abenaou, Said Jai-Andalousi, Abderrahim Sekkaki	6044003
An Image Fusion Algorithm Based on Wavelet Transform and Tensor Analysis	Yongping Zhang, Dechun Zheng, Zhongkun He	6110003
Discrete Sliding Mode Control with Predictive Sliding function for Multivariable Systems	Houda Ben Mansour, Khadija Dehri, Ahmed Said Nouri	6105003
Modeling of Solar-Diesel Hybrid Central Heating System	Musa Abdalla	6192003
Preliminary Study on Gait Variability Analysis with a Single Axis Gyroscope for Alzheimer and Parkinson's Diseases	G. Avitabile, G. Coviello, N. Margiotta	6199003
Wide-Area Damping Controller Design Aiming at Robust Performance of the Controller	M. Beiraghi, A. M. Ranjbar	6162003

Conference Room: C

Time: 12:00-14:00

EEMAS '15: Materials Science and Environment

Chair: Emmanuel N. Antonidakis, Marcela Karmazínová

Effect of Iron (Fe ³⁺) and Magnesium (Mg ²⁺) During Biodegradation of Organic Matter by Clostridium Butyricum in the Leachate	M. Redzwan Tamat, M. Firdaus Othman, Y. Syafikah Razali, N. A. Serri, H. Azan Tajarudin	6112003
Glass – structural material of buildings	Marcela Karmazínová, Jindrich Melcher	6215003
The Oxidation Behavior of Titanium Aluminate at 850°C	Alexandra Banu, Elena Maria Anghel, Marcu Maria, Georgescu Luminita	5932003
Oxygen Isotopic Comparisons of the Microcrystalline Silica; In the Case of Different Chrysoprases in Turkey	Murat Hatipoğlu, Nurdane İlbeyli	6108003
Organic-Inorganic Ion-Exchangers Containing Nanoparticles of Zirconium Hydrophosphate for Electrodeionization Processes	Yu. S. Dzyazko, L. N. Ponomaryova, Yu. M. Volkovich, V. E. Sosenkin, V. N. Belyakov	6180003
Recovery of Oil from Guwahati Refinery Waste Sludge by Pyrolysis	R. C. Borah	6183003
Towards nZEB in the Mediterranean Climate	Annarita Ferrante	6113003
Optimization of Bait Sprays Against Dacus Oleae Using Embedded Systems, GIS and Web-Based Applications	George N. Fouskitakis, Lefteris D. Doitsidis, Iraklis I. Rigakis, Kyriaki N. Varikou, Ioannis V. Sarantopoulos, Androniki K. Papafilippaki, Kyriaki G. Maniadaki, Athanasia E. Mpirouraki, Emmanuel N. Antonidakis	6201003
Risk of Acid Attack on Plants: A Review	S. Behera, B. Mallick, T. N. Tiwari, P. C. Mishra	6168003

Saturday 17th October 2015

Conference Room: A

Time: 14:00-16:00

EAS '15: Economics and Applied Statistics

Chair: Bernard Lietaer, Dinh Tran Ngoc Huy

Advantages and Disadvantages of Family Entrepreneurship and How to Prevent Distress: Evidence from the Czech Republic	Ondřej Machek, Petra Votavová	5991015
Development of Family Business in Uzbekistan	Shuhrat Oblokulovich Kuvandikov	6163003
Impacts of External Financing on The Risk Level of Viet Nam Natural Gas and Oil Industry During and After The Global Crisis 2007-2009	Dinh Tran Ngoc Huy	6121003
Insights of the Romanian M&A as Part of the Worldwide Market	Güven Güngör, Larisa Roxana Manea	6126003
Tax Rates Effects on The Risk Level of Listed Viet Nam Natural Gas and Oil Firms During Global Economic Crisis 2007-2009	Dinh Tran Ngoc Huy	6121011
Why Complementary Currencies are Necessary to Financial Stability: the Scientific Evidence	Bernard Lietaer	6158003
International Trade of Environmental Goods: Is Trade Liberalization Fostering the Mexican Environmental Industry?	Petr Sauer, René Fernando Lara Cervantes	6219003

Saturday 17th October 2015

Conference Room: B

Time: 14:00-16:00

AMCSE '15: Applications of Applied Optical and Algorithms

Chair: Peter Z. Revesz, Krzysztof Szklanny

A Computational Study of the Evolution of Cretan and Related Scripts	Peter Z. Revesz	6099003
A Computational Translation of the Phaistos Disk	Peter Revesz	6212007
Aphastory for Google Glass	Krzysztof Szklanny, Marcin Wichrowski, Alicja Wieczorkowska	6152007
Educational App for Android Mobile Devices	Krzysztof Szklanny, Marcin Wichrowski, Alicja Wieczorkowska	6208003
Modeling of Interaction Between Different Visual Attentions	Qianghua Gao, You Zhai, Jian Zhai	6171007
Randomized Global Optimization for Robust Pose Estimation of Multiple Targets in Image Sequences	Johannes Brünger, Imke Traulsen, Reinhard Koch	6143003
Curve Restoration with Implementations Based on Probability Distribution Functions	Dariusz J. Jakóbczak	5929015
Computer Controlled Low Cost System for Professional 360° Photography	Krzysztof Szklanny, Alicja Wieczorkowska	6152003

Saturday 17th October 2015

Conference Room: C

Time: 14:00-16:00

CC '15: Computers and Communications

Chair: Abdel-Badeeh M. Salem, Han Kyu Lim

A Design and Implementation Vertical SNS for Student Backpackers	Kyeonhoon Kwak, Minwoo Yun, Yangwon Lim, Hankyu Lim	6036007
A Study on the Intelligent Techniques of the ECG-Based Biometric Systems	M. Bassiouni, W.Khalefa, El-Sayed A. El-Dahshan , Abdel-Badeeh M. Salem	6171003
Control Flow Hardening with Program Counter Encoding for ARM® Processor Architecture	Seho Park, Jongmin Lee, Yongsuk Lee, and Gyungho Lee	6211007
International ICT Seagulls Projects: Using Technology for Problem Solving in Education	Hayal Köksal	6192011
Design of Smart Bridge Based on WSN for Efficient Measuring of Temperature, Strain and Humidity	Mohamed Bouyahi, Houria Rezig, Tahar Ezzedine	6106003

16:00-16:30: Coffee Break

Saturday 17th October 2015

Conference Room: A

Time: 16:30-18:30

AMCSE '15: Application of Mechanical Engineering

Chair: Fragiskos Batzias, J. Kechagias

A Printed Circuit Board Exposure Device Design for Course Projects Using LEDs	J. Chatzakis	6159003
An Investigation of Dimensional Accuracy of Multi-Jet Modeling Parts	K. Kitsakis, Z. Moza, V. Iakovakis, N. Mastorakis, J. Kechagias	6205003
Determination the Coefficient of Regenerative Losses in Stirling	Traian Florea, Oita catalin, Traian Vasile Florea	6155007
Hybrid Control System for the Hyper Redundant Arm HHR in Creeping Movements	Ionel Cristian Vladu, Viorel Stoian, Ileana Vladu	6141003
Implementation of Type Wheels to Design Caterpillar Prototype Chair with Automated Features for People with Disabilities in Paraplegia	Maribel Aguilar Echeverri, Arnold Romero Chaparro, Milena Alejandra Pirajan Zamora, Juan Diego López Vargas	6148003
On the Tradeoff between Biomass Exploitation and Exploration within an Interdisciplinary Research Project for Developing a New Product	Dimitrios Batzias, Dimitrios Sidiras, Christina Siontorou, Leonidas Kamarinopoulos, Yiannis Pollalis, Fragiskos Batzias	6150003
Prediction of Surface Roughness in CNC Milling of Al7075 Alloy: A Case Study of Using 8mm Slot Mill Cutter	J. Kechagias, P. Kyratsis, K. Kitsakis, N. Mastorakis	6203007
Simulation Studies for Coalescence of Carbon Nanotubes from Graphene Using Controlled Methods	D. Fülep, I. Zsoldos, I. László	5982019
Study on Starting the High Power Induction Motors with Wounded Rotor	Ion Vlad, Sorin Enache, Monica A. Enache, Ionut D. Smarandache	6142011

Sunday 18th October 2015

Conference Room: A

Time: 09:00-09:45

Plenary Lecture 4:



Approach to Electric Power Equipment Modelling through Sustainability Key Concepts

by Cornelia Aida Bulucea

Faculty of Electrical Engineering, University of Craiova,
ROMANIA.

Conference Room: A

Time: 09:45-10:30

Plenary Lecture 5:



Artificial Intelligence Technology in Health Informatics

by Abdel-Badeeh M. Salem

Faculty of Computer and Information sciences
Ain Shams University
Cairo, EGYPT.

10:30-11:00: Coffee Break

Conference Room: A

Time: 11:00-13:00

EEMAS '15: Renewable Energy, Resources and Environmental Protection

Chair: Carmen A. Bulucea, J. Carvalho

New Technology of Renewable Energy Generation	S. Tounsi	6181015
Effects of Gamma Radiation on Some Hematological Parameters in Female Rats	Ali Abid Abojassim, Haider Salih Jaffat, Adhraa Baqir Hassan	6134003
Identifying the Transfer Function Specific to Environmental Contamination with Flue Gas Toxics	Corina C.Brîndușa, Eliza Gofită, Nikos E. Mastorakis, Carmen A. Bulucea, Nicolae Boteanu, Andreea C. Jeles, Mihnea Glodeanu, Cornelia A.Bulucea	6135019
Magnetic Effects in the Thermodynamics of the Process of Thinking	Aibassov Yerkin Zhakenovich, Savizky Ruben, Yemelyanova Valentina, Shakieva Tatyana, Tussupbaev Nessipbay, Bulenbayev Maxat, Blagikh Evgeniy	6160003
Monospecific Dominance in a Alluvial Mixed Ombrophyllous Forest in Southern Brazil	J. Carvalho, F. Galvão, R. Rios, S. J. E. Velazco	6198003
New Correlation Ratio in Chemistry and Biology with Respect to Time and Magnetic Field	Aibassov Yerkin, Yemelyanova Valentina, Tussupbayev Nessipbay, Shakieva Tatyana, Abenov Bakhyt, Yerzhanova Zhadyra	6109003
Particularities of Power Transformer Reuse with Respect to Re-Stamp Process Based on Life Cycle Assessment Tool	Nicolae N. Boteanu, Florin Ravigan, Mihai Iacob	6089035
Waste Analysis and Categorization in the Construct of Hotels Supply Chain	Raid Al-Aomar, Matloub Hussain	6199007

Sunday 18th October 2015

Conference Room: B

Time: 11:00-13:00

AMCSE '15: Statistical and Probabilistic

Chair: Fragiskos A. Batzias, Vladimir Edemskiy

Comparative Analysis of Structured and Unstructured Base with an Emphasis on Performance	Admir Mujkić, Jasmin Azemović	6135003
Creating a Quasi-Continuum between Repeatability and Reproducibility in Statistical Experimental Design	Fragiskos A. Batzias	6118003
Design Sequences over the Finite Field of Order Four with High Linear Complexity and Arbitrary Even Period	Vladimir Edemskiy	6054003
Edge Detection Based Nearest Neighbor Linear Cellular Automata Rules	Nima Aberomand	6139003
Hierarchy of Groups Evaluation Using Different F-score Variants	Michał Spytkowski, Łukasz P. Olech, Halina Kwaśnicka	6182003
Nondeterministic Production-Distribution Networks: A Cost Scaling Algorithm	S. Ahmad Hosseini	6107003
Performance of Particle Swarm Optimization Algorithm on Continuous Functions	M. Ozan Uysal, Mitat Uysal	5922003
Prevention of Missing Proper Authentication and Authorization Using the Attack-Based Security Analysis Model	Saman Hedayatpour, Nazri Kama	6114003
Probabilistic Nodes Combination as the Novel Method of 2D Data Modeling and Anticipation	Dariusz Jacek Jakóbczak	5964003

Sunday 18th October 2015

Conference Room: A

Time: 13:00-15:00

CC '15: Applications of Computers and Networks

Chair: Abdel Badeeh Salem, Beatrice Daniela Bucur

Developing a Web-Based Ontology for Expert Decision Support Systems	Saud Ben Mahmoud Mandourah, Abdel-Badeeh M. Salem	6206007
Equivalence Classes of Labeled Graphs	Beatrice Daniela Bucur	6120003
Inter-VM Performance Interference Aware Static VM Consolidation Algorithms for Cloud-Based Data Centers	Young-Chul Shim	6111003
Optimization of AODV Routing Protocol in Mobile Ad-Hoc Network by Introducing Features of the Protocol LBAR	Guidoum Amina, Boukelif Aoued	6119003
OVA Heuristic Approach Based on Variable Neighborhood Search Method for Multiclass Support Vector Machine	B. Sidaoui, K. Sadouni	6052007
Psychological Aspects of Life Values Preferences in the Context of Various University Environment	Věra Strnadová, Petr Voborník, Kateřina Provazníková	6077007
The Usage of Neural Networks Paradigm in the Prediction of Protein Secondary Structure	Hanan Hendy, Wael Khalifa, Mohamed Roushdy, Abdel Badeeh Salem	6186003

15:00-15:30: Coffe Break

Conference Room: A

Time: 15:30-17:30

AMCSE '15: Artificial Neural Networks and Fuzzy Logic

Chair: Peter Z. Revesz, Alexey S. Rodionov

A-Maze-D: Advanced Maze Development Kit Using Constraint Databases	Shruti Daggumati, Peter Z. Revesz, Corey Svehla	6077003
Knowledge Base Modelling for Lignocellulosic Materials Optimal Processing by Means of Fuzzy Fault Tree Analysis	Dimitrios Batzias, Dimitrios Sidiras, Christina Siontorou, Fragiskos Batzias, Michael Tsapatsis, Ivo Safarik	6149003
Mesh Refinement with Finite Elements and Artificial Neural Networks	Fatima Belhabi, Mohamed Ettaouil	6173003
Reliability Polynomials: Obtaining and Usage	Alexey S. Rodionov, Olga Rodionova	6149023
Soliton Solution of the Generalized Fifth Order Hirota-Satsuma Equation Coupled with KdV	Gh. Forozani, B. Sohrabi	6136003
The Improved Mixed Gabassov's Method, for the Case Discret Multi Criteria Fractional (Exact Methods) Towards Global Optimization and Application to Fuzzy Optimal Control	Chebbah Mohammed, Ouanes Mohand	6202003
A Model Towards Multicell-Turnover Patterns Using Multivariable Polynomials – Polynomial Life –	Hiroshi Yoshida	5981007
Comparison of ACO and GA Techniques to Generate Neural Network Based Bezier-PARSEC Parameterized Airfoil	Waqas Saleem, Riaz Ahmad, Athar Kharal, Ayman Saleem	5906039

Sunday 18th October 2015

Conference Room: A

Time: 17:30-19:30

AMCSE '15: Geology and Electrical Engineering

Chair: Antonios J. Konstantaras, P. Pokorny

Evaluation of the Electromagnetic Properties of a Concrete Sample by Radar Measurements	M. Albrand, G. Klysz, Y. Grisel, X. Ferrieres	6147003
Exploitation of Chaotic and Synchronization Properties of Logistic Maps for Application in Wireless Communication	Bijoy Kamal Bhattacharyya, Hemanta Kumar Sarmah, Kandarpa Kumar Sarma, Nikos Mastorakis	6144003
Metaheuristics Based on the Variables Integration Method Applied to Reactive Power Compensation in Multi-Objective Optimization	Iliana González Palau, Secundino Marrero Ramírez, Aristides Legrá Lobaina, Daniel Mendiola Ellis	6174023
Nonlinear Interactions with Walls in Internal Wave Attractors	Ilias Sibgatullin	6190011
Semi-Automated Object Identification and Features Extraction of Underground Faults from Tectonic Maps	Antonios J. Konstantaras, Nikolaos S. Petrakis, Theofanis S. Frantzeskakis, Emmanouil N. Antonidakis	6154003
Using Chroma Subsampling in Lossy Compression	P. Pokorny	6090003
Application of Ostwald Ripening to a Prediction of Grain Mean Radius in Grain Coarsening and Coalescence	Aliki D. Muradova	6151003

20:00 Conference Dinner

17/10/2015	Room A	Room B	Room C
09:15-10:00	PLENARY LECTURE 1 Prof. Peter Z. Revesz		
10:00-10:45	PLENARY LECTURE 2 Prof. Michael N. Katehakis		
10:45-11:15	Coffee Break		
11:15-12:00	PLENARY LECTURE 3 Prof. Fragiskos Batzias		
12:00-14:00	AMCSE	CSSP	EEMAS
14:00-16:00	EAS	AMCSE	CC
16:00-16:30	Coffee Break		
16:30-18:30	AMCSE		

18/10/2015	Room A	Room B
09:00-09:45	PLENARY LECTURE 4 Prof. Cornelia Aida Bulucea	
09:45-10:30	PLENARY LECTURE 5 Prof. Abdel-Badeeh M. Salem	
10:30-11:00	Coffee Break	
11:00-13:00	EEMAS	AMCSE
13:00-15:00	CC	
15:00-15:30	Coffee Break	
15:30-17:30	AMCSE	
17:30-19:30	AMCSE	
20:00	Conference Dinner	