

Conference Program



Athens, Greece
October 6-8, 2017

Conference Location:

Hotel Nireus

10 Leoforos Poseidonos, Nea Makri

19005 Marathon, Greece

<http://www.nireushotel.gr/>

Thursday 5th October 2017

Conference Registrations: 18:00

Conference Dinner: 20:00 - 21:30 (Inclusive on Packages A1, A2, B1, B2)

Friday 6th October 2017

Conference Room: A

Time: 09:00-09:15

Welcome and opening speech by Assoc. Professor Nikolaos Bardis, Hellenic Military Academy, Greece

Conference Room: A

Time: 09:15-10:00

Plenary Lecture 1:



Novel Approach in Evolutionary Algorithms Dynamics Analysis and Control Recent Advances and Progress

by Prof. Ivan Zelinka, Faculty of Electrical Engineering and Computer Science, VŠB-TUO Ostrava, CZECH REPUBLIC.

10:00-10:30: Coffee Break

Friday 6th October 2017

Conference Room: A

Time: 10:30-12:30

AMCSE 2017: Applications of Systems

Chair: Felix Sadyrbaev, Jerzy Jelonekiewicz

Consideration of Analogies Between Magnetic and Quantum Notices for Molecular Network	Henryk Piech, Jerzy Jelonekiewicz, Lukasz Laskowski, Magdalena Laskowska	amcse-123
Speed Control of Switched Reluctance Motor Using Genetic Algorithm and Ant Colony Based on Optimizing PID Controller	Hassan El-Sayed Ahmed Ibrahim, Mohamed Said Sayed Ahmed, Khaled Mohamed Awad	amcse-108
On Attracting Sets in Artificial Networks: Cross Activation	Felix Sadyrbaev	amcse-119
Attitude Control System Design for a Rigid-Flexible Satellite Using the H infinity Method with LMI Pole Allocation Considering a Parametric Uncertain	Alain Giacobini de Souza, Luiz Carlos Gadelha de Souza	amcse-102
CICT: New Eyes on Computational Competence in Computational Science	Rodolfo A. Fiorini	amcse-162
Detection of Nanometric Vibrations by Using Opto-Mechanical Sensor	Tigran Abrahamyan, Shant Arakelyan, Arsen Babajanyan, Khachatur Nerkararyan	amcse-152
Cyclic Job Shop Scheduling Problem: A Novel Mixed Integer Linear Programming Model	Atabak Elmi, Zeynep Didem Unutmaz Durmuşoğlu	amcse-147
Effect of DCT Image Compression on Eye Gaze Direction Detection	Kamil Dimililer, Yoney Kirsal Ever, Cansu Somturk, Fulden Ergun, Guner Urun, Mehmet Kara	amcse-115
Fuzzy Sliding Mode Control in Air-Air Homing Missiles to Interception Problem: A Comparative Study	Mustafa Resa Becan	amcse-129

13:00-14:30: Lunch Break (Inclusive on Packages A1, A2, B1, B2)

Friday 6th October 2017

Conference Room: A

Time: 14:30-16:30

INASE '17: Pure Mathematics - Applied Mathematics

Chair: Sibel Sular, Assia Frioui

Semi-Symmetric Metric Connection on Doubly Warped Product Manifolds	Sibel Sular	inaseathens-533
A Simple Proof of a Harnack Inequality for Quasi-Minima of Scalar Integral Functionals with General Growth Conditions	Tiziano Granucci	inaseathens-504
Doubly Warped Product Manifolds With Respect to a Semi-Symmetric Non-Metric Connection	Sibel Sular	inaseathens-529
Flow Apportionment in a Manifold by Using Genetic Algorithm and Least Squares Regression	Avula Thulasi Ram, Bura Sreenivas, Sreenivas Jayanti	inaseathens-515
Fractional Boundary Value Problems on the Half Line	Assia Frioui, Assia Guezane-Lakoud, Rabah Khaldi	inaseathens-509
Numerical Radius Inequalities	Khalid Shebrawi	inaseathens-510

16:30-17:00: Coffee Break

Friday 6th October 2017

Conference Room: A

Time: 17:00-19:00

AMCSE 2017: Mathematical Simulation in Systems

Chair: Ha Yoon Song, Delia Garleanu

Analysis of Relationship Between Personality and Favorite Places with Poisson Regression Analysis	Ha Yoon Song, Hwa Baek Kang	amcse-120
Influence of Slope and External Temperature on Smoke Stratification in case of Fire in Bi-Directional Road Tunnel	Peter Weisenpacher, Jan Glasa, Lukas Valasek	amcse-121
Improvement of Classification Performance for Triple Screening Test Using Data Mining Approaches	Alptekin Durmuşoğlu, Memet Merhad Ay	amcse-146
Technological Forms Develop In Different Morphological Fields	Delia Garleanu, Delicia Arsene, Gabriel Garleanu, Claudia Borda	amcse-137
Noninvasive in Vitro Monitoring of HbA1C with a Microwave Biosensor	Arsen Babajanyan, Seungwan Kim, Jongchel Kim, Shant Arakelyan, Kiejin Lee, Jung-Ha Lee, Barry Friedman	amcse-151
Model Residual Stress by Finite Element Method	Delia Garleanu, Claudia Borda, Gabriel Garleanu, Victor Popovici	amcse-142
Planning Pesticides Usage for Herbal and Animal Pests Based on Intelligent Classification System with Image Processing and Neural Networks	Kamil Dimililer, Yoney Kirsal Ever	amcse-116
Voltage Contingency Ranking for IEEE 39-Bus System Using Newton-Raphson Method	Hajer Jmii, Asma Meddeb, Souad Chebbi	amcse-104

Poster

Performance Comparison of Model Selection Criteria by Generated Experimental Data	Radoslav Mavrevski, Peter Milanov, Metodi Traykov, Nevena Pencheva	amcse-158
Comparison of Reconstructed Gasification Technology before and after Reconstruction	Pavel Friedel, Jakub Čespiva	amcse-176

20:00 - 21:30 Conference Dinner (Inclusive on Packages A1, A2, B1, B2)

Saturday 7th October 2017

Conference Room: A

Time: 09:15-10:00

Plenary Lecture 2:



Design of High-Voltage Mixed-Signal ASICs in Sub-Micron Smart-Power IC Technologies

by Prof. Jan Doutreloigne, Ghent University - IMEC, BELGIUM.

10:00-10:30: Coffee Break

Saturday 7th October 2017

Conference Room: A

Time: 10:30-12:30

INASE '17: Mechanical Engineering & Circuits, Systems, Signal Processing, Communications and Computers

Chair: Jan Doutreloigne, Karel Adamek

Estimation of Cooling Load in Building Integrated with Phase Change Material (PCM) under Sudan Climate Conditions	Adil Anwar Mohamed Omara, A. A. A. Abuelnuor	inaseathens-517
Advanced Manufacturing Technology and Technical Labour in Manufacturing Companies in Kenya	George Makari Nyori, Julius Maima Ogola	inaseathens-528
A High-Efficiency Switching Amplifier Employing Multi-Level Pulse Width Modulation	Jan Doutreloigne	inaseathens-534
Noise Silencer of Air Exhaust	Jan Kolar, Pavel Peukert, Karel Adamek	inaseathens-506
Enhancement of CO ₂ Capture on Populus Wood Biomass-Derived Graphene	Ekhlas L., Younesi H., Rashidi A., Bahramifar N.	inaseathens-511
Homogeneous Hopf Hypersurfaces in a Complex Hyperbolic Space and Extrinsic Shapes of their Trajectories	Tuya Bao, Toshiaki Adachi	inaseathens-520
Fuzzy Logic Schemes of Schools Grouping	Ivan Borshukov, Olga Georgieva	inaseathens-535
NFC Based Android Mobile Healthcare System in Multi-Agent Environment	Ayman M. Mansour	inaseathens-530
Horocycle Trajectories and their Limit-Strings on a Complex Hyperbolic Space	Toshiaki Adachi	inaseathens-505
Construction of a Pre-Contrast Function on a Deformed Exponential Family	Hiroshi Matsuzoe	inaseathens-539
Electrical Braking System Simulation and Control Based on Force to Voltage Conversion Using Servo Motor	Mohammad A. Obeidat	inaseathens-524
Prime Geodesic Theorem for Compact Even-Dimensional Locally Symmetric Spaces of Real Rank One	Muharem Avdispahic, Dzenan Gusic	inaseathens-540

13:00-14:30: Lunch Break (Inclusive on Packages A1, A2, B1, B2)

Saturday 7th October 2017

Conference Room: A

Time: 14:30-16:30

AMCSE 2017: Signal Processing, Communications and Circuits

Chair: Andrzej Polanczyk, Yerkin Aibassov

A Novel Vision-Based System for Analysis of Abdominal Aortic Aneurysm	Andrzej Polanczyk, Maciej Polanczyk, Michał Podgórski, Aleksandra Piechota-Polanczyk	amcse-145
Wavelet Co-Movement Significance Testing with Respect to Gaussian White Noise Background	Jitka Poměnková, Eva Klejmová, Tobiáš Malach	amcse-114
Integrated Artificial Intelligence Algorithm for Skin Detection	Idoko John Bush, Rahib Abiyev, Mohammad Khaleel Sallam Ma'aitah, Hamit Altıparmak	amcse-133
On the Analysis of the Limited Resources Queuing System Under MAP Arrivals	Eduard Sopin, Konstantin Samouylov	amcse-174
Methodology for Obtaining Static Alignment Model	Lely A. Luengas, Pedro Vizcaya, Giovanni Sánchez	amcse-107
Multichemical Approach to the Process of Hyper-Thinking	Yerkin Aibassov, Valentina Yemelyanova, Narymzhan Nakisbekov, Ruben Savizky, Maxat Bulenbayev, Evgeniy Blagikh	amcse-106

16:30-17:00: Coffee Break

Saturday 7th October 2017

Conference Room: A

Time: 17:00-19:00

AMCSE 2017: Applications of Materials Sciences

Chair: Lucjan Setlak, Jan Skrinsky

The Study of Permanent Magnets Synchronous Machine (PMSM) of the Autonomous Electric Power Supply System (ASE), Compatible with the Concept of a More Electric Aircraft (MEA)	Lucjan Setlak, Rafał Kowalik	amcse-126
Calculation and Experimental Validation of Pressure and Temperature Effects on COG-Air Fuel Mixtures	Skrinsky Jan	amcse-171
Numerical Investigation of Heat Transfer Enhancement of Double Pipe Heat Exchanger	Marwa A. M. Ali, Wael M. El-Maghlany, Yehia A. Eldrainy, Abdelhamid Attia	amcse-141
Ab-Initio Study of Intermetallic Rare Earth Type R ₂ Ni ₂ Pb (R= Ho, Lu and Sm)	Y. Benkaddour, I. Benakddour, A. Benakddour	amcse-155
Ab-Initio Study of Rare Earth Materials Type HoX	Amina Benkaddour, Imen Benkaddour, Yousra Benkaddour, Nadjat Benbellil	amcse-144
The First-Principle Study of the Structural, Electronic, and Thermal Properties of a BaS _{1-x} Tex	I. Benkaddour, Y. Benkaddour, A. Benkaddour	amcse-175
Model and Simulation of Permanent Magnets Synchronous Machine (PMSM) of the Electric Power Supply System (EPS), in Accordance with the Concept of a More Electric Aircraft (MEA)	Lucjan Setlak, Rafał Kowalik	amcse-177

Poster

Electronic Structure and Magnetic Properties of Co ₂ VSi _{0.5} Ga _{0.5} Quaternary Heusler Alloy	Ali Bentouaf, Rezki Mabsout, Mohammed Ameri, Zahira Amel Bouyakoub	amcse-111
Recent Advances in Laser-Pulse Melting of Graphite at High Pressure	P. Vervikishko, M. Sheindlin	inaseathens-537
Highly Effective Activated Carbon from Wood for Supercapacitors	Vervikishko D. E., Kochanova S. A., Kiselyova E. A., Shkolnikov E. I.	inaseathens-536

20:00 - 21:30 Conference Dinner (Inclusive on Packages A1, A2, B1, B2)

Sunday 8th October 2017

Conference Room: A

Time: 09:15-10:00

Plenary Lecture 3:



New Developments in Image and Spectrometer Signal Analysis for Medical and Biotechnology Applications

by Prof. Petra Perner, Institute of Computer Vision and applied Computer Sciences, IBal Leipzig, GERMANY.

10:00-10:30: Coffee Break

Sunday 8th October 2017

Conference Room: A

Time: 10:30-12:30

INASE '17: Chemical Engineering and Materials Science & Biology and Biomedical Engineering

Chair: Habibollah Younesi, Daniela Pasnicu

Microporous Activated Carbon from Biomass of Persian Ironwood for Efficient CO ₂ Capture	M. Nowrouzi, N. Bahramifar, H. Younesi	inaseathens-518
Analytical Modelling and Performance Analysis for Symmetric Double Gate Stack-Oxide Junctionless FET in Subthreshold Region	Md. Shafiqul Islam, Raisa Fabiha, Chinmoy Nath Saha	inaseathens-512
Chemical Bath Deposition Technique (CBD) of CdS Used in CSS (Closed Space Sublimation) of CdTe Solar Cell	Z. Mahmood F. U. Babar, S. Naz, H. U. Rehman	inaseathens-527
Study of the Doping Effect on the Structural Evolution of Pyrochlore Fuel-Cell Materials	Fatima Melit, Farah Lamara, Nedjemeddine Bounar, Abderrahim Benabbas	inaseathens-519
Effects of Coagulation on the Two-Phase Simulation of Magnetized Prandtl Fluid through a Porous Annulus	M. M. Bhatti, A. Zeeshan, R. Ellahi	inaseathens-522
Labour-Entrepreneurship Substitution Mechanism: Determining Growth, Employment and Wage in Nigeria	Chimaobi Valentine Okolo, Ani Afamefuna Jonah	inaseathens-101
Aspects Regarding the Quality of Employment in Romania	D. Paşnicu, G. Tudose	inaseathens-538

13:00-14:30: Lunch Break (Inclusive on Packages A1, A2, B1, B2)

Sunday 8th October 2017

Conference Room: A

Time: 14:30-16:30

AMCSE 2017: Applications of Software in Mathematical Methods for Engineering Sciences

Chair: Zhiguang Xu, Zhenquan Li

Adaptive Flow Admission Control in a Software-Defined Network	Zhiguang Xu	amcse-131
Assessment of Three WENO Type Schemes for Nonlinear Conservative Flux Functions	Alina Bogoi, Dragoş Isvoranu, Sterian Dănilă	amcse-127
Investigating the Acceptance on the Road to Connected-Autonomous Vehicles	Ilias Panagiotopoulos, George Dimitrakopoulos	amcse-117
CFD Analysis of 2D Unsteady Flow Past a Square Cylinder at Low Reynolds Numbers	Zhenquan Li, Robert Wood	amcse-130
A New off-Lattice HP Model with Side-Chains for Protein Folding Problem	Ivan Todorin, Nicola Yanev, Metodi Traykov, Borislav Yurukov	amcse-161
Computation of the Genetic Code: Full Version	N. N. Kozlov	amcse-113
Analysis of Docking Algorithms by HPC Methods Generated in Bioinformatics Studies	Anton Stoilov, Borislav Yurukov, Peter Milanov	amcse-172
Computer Modeling of Cannabinoid Receptor Type 1	Fatima Sapundzhi, Tatyana Dzimbova, Nevena Pencheva, Peter Milanov	amcse-164
Adaptive Collaborative Quantum-Inspired Evolutionary Algorithm for Global Numerical Functions	Zhou Liang, Shao Ming, Ma Chengqian	amcse-178

16:30-17:00: Coffee Break

Sunday 8th October 2017

Conference Room: A

Time: 17:00-19:00

AMCSE 2017: Computer Science and its Applications

Chair: José Eduardo Padilla Beltrán, Ivan Trenchev

Distance in Bucket Recursive Trees with Variable Bucket Capacities and a Given Number of Non-Leaves	Ramin Kazemi	amcse-001
Educational Resources with Digital Contents for Pedagogical and Research Formation in Technologies of Knowledge and Learning	José Eduardo Padilla Beltrán, Yaneth Patricia Caviativa Castro, María Inés Mantilla	amcse-150
Heuristic Methods for Analyzing Some Properties of the Genetic Code	I. Trenchev	amcse-157
Impact of Surface Mesh Simplification on Hemodynamic Simulations	Arij Debbich, Asma Ben Abdallah	amcse-124
Production of a Super-Increasing Sequence Based on the Fibonacci Sequence	Hana Ali-Pacha, Naima Hadj-Said, Adda Ali-Pacha, Assia Merzoug	amcse-154
Collecting and Analyzing Digital Proof Material to Detect Cybercrimes	Abdulghani Ali Ahmed	amcse-099