

Conference Program



**Agia Pelagia, Heraklion, Crete, Greece
July 14-17, 2017**

Conference Location:

**CHC Athina Palace Resort & Spa
Made, 71500 Heraklion, Crete, Greece**

<http://www.athinapalace.com.gr/>

Friday 14th July 2017

08:45-09:00 Welcome Speech

Conference Room: A

Time: 09:00-09:30

Plenary Lecture 1:



Research Spatio-Temporal Data Mining of Ancient Genome Databases
by Prof. Peter Z. Revesz, University of Nebraska-Lincoln, Lincoln, NE,
USA.

Conference Room: C

Time: 09:00-09:30

Plenary Lecture 2:



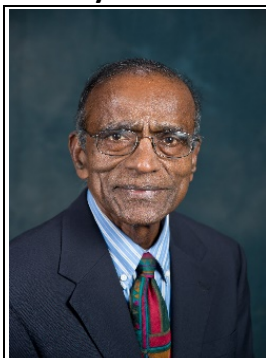
**Multimodality Molecular Imaging: Paving the Way for Personalized
Medicine**
by Prof. Habib Zaidi, Geneva University Hospital, Geneva,
SWITZERLAND.

Friday 14th July 2017

Conference Room: A

Time: 09:30-10:00

Plenary Lecture 3:



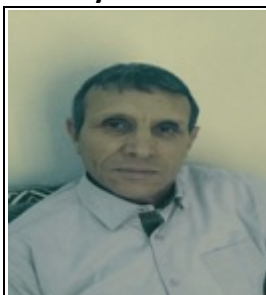
**Research Experiences in Biomedical Sciences & Engineering:
Prosthetic Hand**

by Prof. D. Subbaram Naidu, University of Minnesota Duluth, Duluth,
MN, USA.

Conference Room: B

Time: 09:30-10:00

Plenary Lecture 4:



**The Inverse of the Belonging Individual Probability and the Discrete
Wavelet as a Hybrid Technique for Anomalous Detection and
Identification**

by Prof. Benabdellah Yagoubi, Department of Electrical Engineering
University of Mostaganem, Mostaganem, ALGERIA.

Conference Room: C

Time: 09:30-10:00

Plenary Lecture 5:



**Electrophysical Activity in Neurons and Unicellular Organisms for
Bipolar Potential Generation and Utilization**

by Prof. Yumi Takizawa, Institute of Statistical Mathematics, Tokyo,
JAPAN.

Friday 14th July 2017

Conference Room: A

Time: 10:00-10:30

Plenary Lecture 6:



Life Cycle Assessment of the Recycling Process of Thermal Spray Waste in Ceramic Products

by Prof. Anna Maria Ferrari, Department of Science and Engineering Methods, University of Modena and Reggio Emilia, Modena, ITALY.

Conference Room: B

Time: 10:00-10:30

Plenary Lecture 7:



Electricity Generation by Living Plant and Supply Through Nano Trees

by Prof. Hari Kumar Naidu, Electrical Engineering, Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur, India.

Conference Room: C

Time: 10:00-10:30

Plenary Lecture 8:



Computer-Aided Pathological Image Analysis to Assist in Oncological Diagnostics

by Prof. Włodzimierz Klonowski, Nalecz Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, Warsaw, POLAND.

10:30-11:00: Coffee Break

Friday 14th July 2017

Conference Room: A

Time: 11:00-13:00

Special Session CSCC '17: Systems and Technology for Personal and Information Security - Part I

Chair: Andrzej Walczak, Maciej Kiedrowicz

Evaluation of Diagnostic Classifiers Using Artificial Clinical Cases	Karol Antczak, Andrzej Walczak, Michał Paczkowski	csc-017
Network Model of Risk Analysis in the Technical Structures	Andrzej Walczak, Jarosław Napiórkowski, Piotr Adamczyk, Grzegorz Kiryk	csc-107
Multi-Faceted Methodology of the Risk Analysis and Management Referring to the IT System Supporting the Processing of Documents at Different Levels of Sensitivity	Maciej Kiedrowicz	csc-048
System Risk Model of the IT System Supporting the Processing of Documents at Different Levels of Sensitivity	Jerzy Stanik	csc-049
Sensor-Based Supporting Mobile System Parkinson Disease Clinical Tests Utilising Biomedical and RFID Technologies	Mariusz Chmielewski, Michał Nowotarski	csc-052
Analytical Processing System of Business Processes, Methods of Exploration of Business Process Definitions and Instances	Jarosław Koszela	csc-054
Dynamic Business Process in Workflow Systems	Maciej Kiedrowicz	csc-058
Optimization of Equipment Deployment on Fire Trucks	Tadeusz Nowicki	csc-074
Virtual Simulator Ergo Truck of Crew Operations During the Removal of Equipment from Fire Trucks	Tadeusz Nowicki, Lukasz Matuszelanski, Jarosław Koszela, Roman Wantoch-Rekowski	csc-075

Friday 14th July 2017

Conference Room: B

Time: 11:00-13:00

EEDE '17 & GESE '17: Environmental Sciences, Geology and Seismology

Chair: Badea Lepadatescu, Mihai Cruceru

Studies Regarding the Use of Renewable Energy Sources to Produce Electricity	Badea Lepadatescu, Anisor Nedelcu	inase-148
The Removal of Heavy Metal Using Biomaterial to Enhance the Quality of Life in Community	Chinnawat Satsananan	inase-104
Divorce Case: Case Study of Desertion as per Thai Law Compared With Lao Law	Kamonwan Yoowattana	inase-105
Study on Char Recovery from Bottom Coal Ash	Mihai Cruceru, Bogdan Diaconu, Lucica Anghelescu, Traian Alexandru Abagiu	inase-176
Microtremors for Seismic Response Assessments of Important Modern and Historical Structures of Crete	Margarita Moisidi, Filippos Vallianatos	inase-185
Study on Ways to Accommodate the Entry of Migrant Workers into SMEs Business of Thailand. A Case Study: Myanmar and Lao Migrant Workers	Pattaravis Yoowattana	inase-106
Participation in Development of the Bangsue District Community, Bangkok, Thailand	Wasana Suridechakul	inase-108
Complexity of Natural Vibrations: the Case Study of a Church Bell Tower	Ioannis Koutalonis, Filippos Vallianatos, Margarita Moisidi, Kaliopi Chochlaki	inase-186
A Model of Creative Tourism Management in Coastal Fishery at Ban Bang Lamung, Chonburi Province	Anyapak Prapannetivuth	inase-109
A Chi-Square Test to Assess the Completeness of Earthquake Catalogs	Myunghyun Noh	inase-123
Methodological Framework to Estimate the Coastal Sediment Supply of the Island Beaches	Ioannis Kontogeorgos, Ourania Tzoraki, Nicolaos Moutafis, Thomas Hasiotis, Adonis Velegrakis	inase-192

Friday 14th July 2017

Conference Room: C

Time: 11:00-13:00

MEDICINE: Recent Advances in Medicine

Chair: Yumi Takizawa, Wlodzimierz Klonowski

Advanced Model and Analysis of Activity in Neurons Based on Liquid Junctions Induced in Cytoplasm	Atsushi Fukasawa, Yumi Takizawa	60009-106
Automatic Segmentation of Morphological Structures in Microscopic Images of Lymphatic Nodes - Preliminary Results	Ryszard Gomolka, Wlodzimierz Klonowski, Anna Korzynska, Krzysztof Siemion	60007-109
Ultrasound Attenuates Blood-Brain Barrier Disruption and Cerebral Edema after Traumatic Brain Injury in Mice	Wei-Shen Su, Feng-Yi Yang	60009-100
Electrophysical Modelling and Analysis of Electrical Transmission in Axons	Yumi Takizawa, Atsushi Fukasawa	60009-109
Computer-Aided Image Analysis in Neuro-Pathology	Wlodzimierz Klonowski, Bozena Kuraszkiewicz, Ryszard Gomolka, Pawel Stepien	60007-106
Metabolic Syndrome Severity Score: Range and Associations with Cardiovascular Risk Factors	Penka A. Atanassova, Karamfil M. Bahchevanov, Mitko D. Mitkov, Radka I. Massaldjieva, Kostadin A. Chompalov	60009-103
Maternal Separation During Lactation Period Increases Levels of Pro-Inflammatory Cytokines in Brains of Adolescent Rats	Lu Song, Qingjun Huang, Haiyun Xu	60006-100
Computer-Aided Image Analysis in Onco-Pathology	Wlodzimierz Klonowski, Anna Korzynska, Ryszard Gomolka, Pawel Stepien	60007-103

Friday 14th July 2017

Conference Room: A

Time: 13:00-15:00

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Control Theory, Software and Education

Chair: Marek Kubalcik

Predictive Control of Multivariable Time-Delay Systems	Kubalcik Marek, Bobal Vladimir	csc-237
Using Formal Methods in Distributed System Design	Awwama Emad, Kadi Mohammad, Krayem Said, Lazar Ivo, Rihawi Ahmad	csc-250
Utilization of 3D Sensors in Robotics	Miroslav Marčaník, Michal Šustek, Pavel Tomášek, Roman Jašek	csc-235
Computer Networks in Education	Milan Adamek, Miroslav Matysek, Michaela Barinova	csc-278
Detecting Fire in Video Stream Using Statistical Analysis	Karel Koplík, Peter Janků, Olga Voznyuk, Tomáš Dulík, Petr Snopek	csc-274
Adaptive Control of Neural Network Synthesis	Pavel Vařacha	csc-281
A Performance Comparison of Two Emotion-Recognition Implementations Using OpenCV and Cognitive Services API	Luis Antonio Beltrán Prieto, Zuzana Komínková-Oplatková	csc-314

Friday 14th July 2017

Conference Room: B

Time: 13:00-15:00

CSCC '17: Applications of Computers in Sciences

Chair: Jindrich Klufa, Tatiana Kudryashova

Optimization of Wave Pattern of Corrugation on Plates of Heat Exchanger	Václav Dvořák	csc-109
Homogeneity of the Test Variants in Entrance Exams	Jindřich Klůfa	csc-113
3D Model of Flow in Micro Channels	Tatiana Kudryashova, Sergey Polyakov	csc-277
A Translation of the Malia Altar Stone	Peter Z. Revesz	csc-357
Milk Duct Segmentation in Microscopic HE Images of Breast Cancer Tissues	Bartosz Świdorski, Michał Kruk, Stanisław Osowski, Grzegorz Wieczorek, Jarosław Kurek, Leszek Chmielewski, Arkadiusz Orłowski	csc-076
Automatic Regulation of Wastewater Discharge	Yolanda Bolea, Antoni Grau	csc-038
The Cretan Script Family Includes the Carian Alphabet	Peter Z. Revesz	csc-359
A Visual Cloud System for Parallel Programming Teaching and Learning	Victor Kasyanov, Elena Kasyanova	csc-024
Universal Language Extension for Conducting Laboratory Experiments on Analogue and Digital Circuit Design	George Popov, Filip Krastev	csc-348

Friday 14th July 2017

Conference Room: C

Time: 13:00-15:00

INASE '17: Marine Engineering, Materials and Continuum Mechanics

Chair: Cornel Bit, Zdeněk Kala

Studies Regarding the Tests of Permanent Magnet Motor for Vehicle Propulsion	Cornel Bit	inase-156
Exact Secular Equation of Rayleigh Waves Propagation at Frictionally Contact Layered Media on Anisotropic Elastic Half-Space	Navjot Kaur, S. K. Tomar	inase-006
Depth Stabilization of Biomimetic Underwater Vehicle Without Swim Bladder	Piotr Szymak, Tomasz Praczyk	inase-010
High-Level Control System for Biomimetic Autonomous Underwater Vehicle	Tomasz Praczyk, Piotr Szymak	inase-009
Probabilistic Evaluation of the Limit State Function of the Fatigue Resistance of Steel Bridges	Z. Kala, A. Omishore, S. Seidl, M. Krejsa, J. Kala	inase-114
Axisymmetric Torsion of an Elastic Layer Weakened by an External Crack	Kebli Belkacem, Merchiche Mouloud	inase-125
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	inase-110

15:00-15:30: Coffee Break

Friday 14th July 2017

Conference Room: A

Time: 15:30-17:30

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Embedded Systems, Robotics, and Control Applications

Chair: Zdeněk Úředníček

Comparison of Integrated and Composed Step-Down Converter in terms of EMC	Peter Janků, Luboš Lorenc, Tomáš Dulík	csc-263
Hybrid Extension for Advanced Technology Zone	Václav Mach	csc-254
Advanced Hardware Protection of Metallic Loops	Václav Mach, Milan Adámek	csc-255
Cascode-Based Voltage-Amplifier Stage	Martin Pospisilik	csc-297
DC Motors and Servo-Motors Controlled by Raspberry Pi 2B	Michal Šustek, Miroslav Marcaník, Pavel Tomášek, Zdeněk Úředníček	csc-239
Active Damping of Multidimensional Mechanic Systems	Zdeněk Úředníček, Jaroslav Maloch	csc-234

Friday 14th July 2017

Conference Room: B

Time: 15:30-17:30

CSCC '17: Signal Processing

Chair: Martin Grigryan, Joaquín Ordieres-Meré

Divergence Coding for Convolutional Codes	Zolotarev Valery, Ovechkin Gennady, Satybaldina Dina, Tashatov Nurlan, Egamberdiyev Eldor	csc-290
On the Representation of Signals Series by Faber-Schauder System	Tigran Grigoryan, Martin Grigoryan	csc-068
Hierarchical Motion-Compensated Frame Rate Up-Conversion Using Gaussian Pyramid and Guidance Motion Vector	Bumjun Park, Jechang Jeong	csc-031
An IoT-Based System that Aids Learning from Human Behavior: A Potential Application for the Care of the Elderly	Unai Saralegui, Miguel Ángel Antón, Joaquín Ordieres-Meré	csc-292
Derivation of the Doppler Effect from the Maxwell's Equations	Yevgen V. Chesnokov, Ivan V. Kazachkov	csc-233
Study of EEG with Epileptic Activity Using Spectral Analysis and Wavelet Transform	Radu Matei, Călin Corciovă, Doru Andrițoi, Daniela Matei	csc-313
Statistical and Learning Aided Classifiers for ECG Based Predictive Diagnostic Tool	Sumi Bharali, Manash Pratim Sarma, Kandarpa Kumar Sarma, Nikos Mastorakis	csc-273

Friday 14th July 2017

Conference Room: C

Time: 15:30-17:30

EMET '17: Education and Modern Educational Technologies

Chair: Eva Milkova, Badea Lepadatescu

Algorithmic Thinking and Mathematical Competences Supported via Entertaining Problems	Eva Milkova, Andrea Sevcikova	inase-004
Patient-Reported Outcome Versus Performance-Based Variations of Talk Test: A Baseline Comparison of Utterance Characteristics	Siti R. Mahmud, Aqilah L. Narayanan, Eko Supriyanto	inase-143
Project-Based Learning to Develop Oral Production in English as a Foreign Language	Diana Katherine Gonzalez Ocampo, Jhonatan Correa Molina, Briam Steven Rojas	inase-180
Some Investigations Regarding the Academic Performance of Students Related to the Various Learning Activities	Mihaela Popescu	inase-169
Studies Regarding the Ways to Decrease the Expenses in the Area of Industrial Business	Catalin Gheorghe	inase-170
Trends of Thought that Allow College Students Reasoning Critically Through Everyday Situations	M. A. Paola Andrea Mina Gómez, M. A. Heberth Caicedo Saldaña	inase-003
Using Robotic Kits and 3D printers at Primary (Lower Secondary) Schools in the Czech Republic	Radek Nemeč, Petr Vobornik	inase-122
Drone in Construction	Rula Sharqi, Yasemin Nielsen, Ammar Kaka	inase-190

Friday 14th July 2017

Conference Room: A

Time: 17:30-19:30

CSCS '17: Wireless Communications

Chair: Angel Lozada, Yury Geints

General Data Acquisition Platform for Wireless Sensor Network Based on CC2538	Zhi-Jun Yang, Yang-Yang Ding, Hong-Wei Ding, Yang Su	csc-308
An Efficient FPGA Based Implementation of Multichannel Satellite Modulator	K. K. Vinaymurthi, K. M. Nitin Babu, K. V. Sachin, S. V. Hariprasad	csc-021
Constraint Database Representation and Visualization of Sea Turtle Migration in MLPQ System	Semere Woldemariam, Peter Revesz	csc-360
Design and Study of a Microstrip Slot Antenna Operating at 2.8/3.1/3.6/4.7/5.4 GHz	Angel Lozada, Andrés Piedrahita, Gloria Russi	csc-294
Prospects for Atmospheric Optical Energy Transmission by Highpower Mid-IR Ultrashort Lasers	Yury Geints, Alexander Zemlyanov	csc-005
Design and Simulation of Mobile adhoc Network (MANET) with Enhanced Security Services	Eman S. Eldin, Ibrahim Nabil Alsherbini Ibrahim, Mohamed Ibrahim Mohamed Abdelfattah	csc-283
An Improved Technique for the Detection of Pilot Contamination Attacks in TDD Wireless Communication Systems	Dimitriya Mihaylova, Zlatka Valkova-Jarvis, Georgi Iliev	csc-340

Friday 14th July 2017

Conference Room: B

Time: 17:30-19:30

CSCC '17: Software and Algorithms for Systems

Chair: Desineni S. Naidu, Daniel Dantchev

Synchronization of Singularly Perturbed Systems with Time Scales	Neng Wan, Desineni S. Naidu	csc-042
Novel Asymmetrical Pulse Width Modulation Method	D. Baimel, S. Tapuchi, N. Baimel	csc-028
The Continuous-Time H_∞ Model Matching Problem with Integral Control in LMI Optimization	Murat Akin, Tankut Acarman	csc-043
All-Optical Delay Line System Based on Nonlinearity in Optical Fibers at High Bit Rate	Mohamed S. Hassan, M. Atef Bassiouny	csc-112
A New Efficient Fuzzy Fault Tolerant Routing Algorithm for Network-on-Chip	Ebrahim Behrouzian Nejad	csc-070
An Air Flow Driven Wireless Node	Gregorio Boccalero, Corrado Boragno	csc-318
Software System for Automatic Reaction to Network Anomalies and in Real Time Data Capturing Necessary for Investigation of Digital Forensics	Mladen Vukašinić	csc-201

Poster Topic: Civil Engineering

Risk Factors Detection for Safety Prioritisation in Tunnel Construction Using Bayesian Networks	A. Alonso, S. Gerassis, Á. Saavedra, J. F. García, J. Taboada	inase-133
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Saturday 15th July 2017

Conference Room: A

Time: 09:00-09:30

Plenary Lecture 9:



Resilient Design of Unmanned Autonomous Systems

by Prof. George Vachtsevanos, Georgia Institute of Technology, Atlanta, GA, USA.

Saturday 15th July 2017

Conference Room: A

Time: 09:30-10:00

CSCC Tutorial:



Internet of Anything as System of Systems

by Prof. Rudas Imre, Óbuda University, Budapest, HUNGARY.

Conference Room: B

Time: 09:30-10:00

Plenary Lecture 10:



On a Linearization Method for the Dynamical Systems Associated to Excitable Media Models

by Prof. Adela Ionescu, Department of Applied Mathematics, University of Craiova, Craiova, ROMANIA.

Conference Room: C

Time: 09:30-10:00

Plenary Lecture 11:



The Use of the NCI-60 Cancerous Cell-Lines and CellMiner as a Foundation for the Exploration of Pharmacogenomics

by Dr. William C. Reinhold, Genomics and Bioinformatics Group, Developmental Therapeutics Branch, NCI, NIH, USA.

Saturday 15th July 2017

Conference Room: A

Time: 10:00-10:30

Plenary Lecture 12:



Electromagnetic Interference Risk Online Monitoring System
by Prof. Eko Supriyanto, Faculty of Medical Engineering, Malaysia
University of Technology, Johor, MALAYSIA.

Conference Room: B

Time: 10:00-10:30

Plenary Lecture 13:



Industrial Experiences of Applying Set-Based Concurrent Engineering
by Prof. Ahmed Al-Ashaab, Manufacturing Department, Cranfield
University, Cranfield, UK.

Conference Room: C

Time: 10:00-10:30

Plenary Lecture 14:



Advances in Treatment in Pheochromocytoma (or Paraganglioma)
by Prof. Salvador Borges-Neto, Duke University, Durham, NC, USA.

10:30-11:00: Coffee Break

Saturday 15th July 2017

Conference Room: A

Time: 11:00-13:00

Special Session CSCC '17: Systems and Technology for Personal and Information Security - Part II

Chair: Andrzej Walczak, Maciej Kiedrowicz

A Semantic Similarity Evaluation Method and a Tool Utilised in Security Applications Based on Ontology Structure and Lexicon Analysis	Mariusz Chmielewski, Małgorzata Paciorkowska, Maciej Kiedrowicz	csc-050
Customer Service Processes Automation in Administrative Office with RFID Tagged Documents	Robert Waszkowski, Maciej Kiedrowicz, Tadeusz Nowicki, Kazimierz Worwa	csc-059
Access Control Management in Administrative Office with RFID Tagged Documents	Robert Waszkowski, Maciej Kiedrowicz, Tadeusz Nowicki, Kazimierz Worwa	csc-060
Simulator for Testing Hardware and Software of the Office System with RFID Tags	Tadeusz Nowicki, Krzysztof Chlebicki, Dariusz Pierzchała, Kazimierz Worwa, Robert Waszkowski	csc-046
Evaluating the Impact of Testing Document Management System with RFID Tags Software on the Level of its Reliability	Kazimierz Worwa, Maciej Kiedrowicz, Tadeusz Nowicki, Robert Waszkowski	csc-055
Modeling and Simulation of Botnet Based Cyber-Threats	Rafał Kasprzyk, Marcin Paź, Zbigniew Tarapata	csc-053
The Architectural Software Concepts Implemented in Distributed High Resolution Constructive Simulation Environment SymSG Border Tactics, Supporting Polish Border Guard Computer Assisted Exercises	Mariusz Chmielewski, Damian Frąszczak, Marcin Kukiełka, Dawid Bugajewski	csc-072
High Detail Terrain Models and Multiresolution Path Finding Algorithms for Border Guard Constructive Simulator. A Study of Effective Movement Algorithms in High Resolution Simulation Environment	Mariusz Chmielewski, Jakub Kędzior, Piotr Stąpor, Marcin Kukiełka	csc-073
A Computer System for CBRN Contamination Threats Analysis Support, Prediction their Effects and Alarming the Population: Polish Case Study	Zbigniew Tarapata, Ryszard Antkiewicz, Mariusz Chmielewski, Michał Dyk, Rafał Kasprzyk, Wojciech Kulas, Andrzej Najgebauer, Dariusz Pierzchała, Jarosław Rulka	csc-051

Saturday 15th July 2017

Conference Room: B

Time: 11:00-13:00

CSCC '17: Applications of Circuits and Electrical Motors

Chair: Valeri Timoshenkov, Martin J. Burke

Quasi-One-Dimensional Van Der Waals Metals as Interconnects for the Next Generation of Electronic Devices and Circuits	Guanxiong Liu, Alexander Balandin	csc-037
X-Band Core Chip SiGe Design for Phased Array T/R Modules	Valeri Timoshenkov, Andrey Efimov	csc-328
Transient Response of Low-Power ECG Recoding Amplifiers for Use with Un-Gelled Electrodes	Martin J. Burke, Oscar Tuohy	csc-057
Direct Torque Control of Induction Motor Using Seven-Level Cascaded Multilevel Inverter with Reduced Number of Switches	P. Rajan, S. Jeevananthan, P. Ranjith	csc-040
Comparative Analysis of Resonant Converters for Energy Storage Systems	Stoyan Vuchev, Dimitar Arnaudov, Nikolay Hinov	csc-341
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	csc-327
Design of a Full 1Mb STT-MRAM Based on Advanced FDSOI Technology	Kotb Jabeur, Guillaume Prenat	csc-331

Saturday 15th July 2017

Conference Room: C

Time: 11:00-13:00

MEROSTA '17: Mechatronics and Robotics, Structural Analysis

Chair: Eko Supriyanto, Sergey Sayapin

Applications of Tactile Sensors and Displays in Robotically-Assisted Minimally Invasive Surgery	Sasha Mbabazi, Javad Dargahi, Amir Molaei	inase-126
Multimodalities Pain Assessment System Towards Robot Based Diagnostics	Nur F. M. Rozaini, Christina Pahl, Eko Supriyanto	inase-142
The Structural Analysis of Stringer Twisting Machine in Medium-Sized Aircrafts	Jae Gu Lee, Chae Yoon Yang, Yoo In Shin, Seong Min Hong, Seok Min Kim, Chul Ki Song	inase-120
Self-Propelled Autonomous 2D Parallel Robots for Sliding Cupping-Glass Massage for Back and Chest	Sergey Sayapin, Elena Sayapina	inase-129
Reduced Order Modeling of Two-Link Flexible Manipulators Using Finite Element Modal Decomposition	M. Sayahkarajy, E. Supriyanto, Z. Mohamed	inase-140
Risk Analysis of Transesophageal Echocardiography Telemanipulator in Catheterization Laboratory	Indhika F. Warsito, Christina Pahl, Eko Supriyanto, A. Soesanto	inase-144
Sensors, Actuators, and Devices in Cardiovascular Systems	Imad Al Hmouz, Amir Molaei, Javad Dargahi	inase-154

Saturday 15th July 2017

Conference Room: A

Time: 13:00-15:00

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Instrumentation and Measurement

Chair: Martin Pospisilik

Immunity of Electronic Devices Against Radio-Frequency Electromagnetic Fields	Hana Urbancokova, Stanislav Kovar, Ondrej Halaska, Jan Valouch	csc-256
Intensity of EMF Generated by Electronic Safety System Devices	Martin Pospisilik, Eva Vnencakova, Milan Kutaj	csc-279
CFD Validation by Measurement of Specialized Ventilation Equipments on Duct Tract	Stanislav Sehnalek	csc-243
Multivariate Study of Spectral Data of Oils	Hana Vaskova, Martina Buckova	csc-236
Comparison of Two Internationally Recognized Methods for Determining the Sound Absorption Coefficient	Pavel Drabek	csc-245
Measurement of Four-Pane Building Window Filled with a PCM	Martin Kolacek	csc-232

Saturday 15th July 2017

Conference Room: B

Time: 13:00-15:00

Special Session CSCC '17: Knowledge Computing and Engineering for Intelligent Decision Support Systems

Chair: Abdel-Badeeh M. Salem

Intellectual Capital and Predefined Headings in Swedish Health Care Sector	Annika Ternner, Amra Halilovic	csc-032
Big Data Analytics in the Management of Business	Dorota Jelonek	csc-229
Results of Implementing ERP System in a Multi-Plant Enterprise	Elzbieta Wyslocka	csc-230
Deployment of SIP in MANET: Challenges and Circumvention	Salma R. Abdelhamid, Hossam-Eldeen M. Shamardan, Atef Z. Ghalwash	csc-293
Comparative Study of Intelligent Systems for Management of GIT Cancers	Nevine Labib, Edward Wadid	csc-295
Optimized UAV Object Tracking Framework Based on Integrated Particle Filter with Ego-Motion Transformation Matrix	Wesam Askar, Osama Elmowafy, Aliaa Youssif, Gamal Elnashar	csc-301

Saturday 15th July 2017

Conference Room: C

Time: 13:00-15:00

CIVILENG '17: Civil & Industrial Engineering

Chair: Ahmed Al-Ashaab, Michal Štrba

Comparative Study of an Optimal Utilization in Case of Composite Columns of HSS and HPC	Michal Štrba, Marcela Karmazínová	inase-131
Discovering Lean Innovation Good Practices: Three Industrial Case Studies in the UK	Myrna Flores, Carles Regué, Ahmed Al-Ashaab, Stephen Young, Najam Beg, Alan Harris, Muhd Ikmal I. Bin Mohd Maulana	inase-191
Numerical Simulation of Near Field and Far Field Brine Discharge from Desalination Plants (A Case Study in Persian Gulf)	Ahmad Rezaee Mazyak, Mehdi Shafieefar, Alireza Shafieefar	inase-113
Developing a Healthcare Knowledge-Based Framework to Enhance the Productivity of the Operations of Private Hospitals	A. Iglesia, M. Al-Qassimi, S. Abouali, N. Alqarni, B. Mazouni, A. Waboi, Z. Araci, A. Al-Ashaab	inase-184
Probabilistic-Based Design of Bridges Under Multiple Hazards: Floods and Earthquakes	K. W. Liao, Jessica Gitomarsonoa	inase-127
Traditional Architectural Principles to Use Future Residents	Maral Kangavari, Alireza Gharakhani	inase-001
Developing Business Case Framework For The Introduction Of The Set-Based Concurrent Engineering; A Case Study At Jaguar Land Rover	Muhd Ikmal I. Mohd Maulana, George Sherrey, Ahmed Al-Ashaab, Almudena Jimenez Martin, Kshitij Vats, Oluwaseyi Omoloso, Thomas Masson, Thomas R. Leigh, Toni Galeote Perramon, Victor Barroso Moreno, Yucheng Zhang	inase-182
Factors Affecting Small Contractors' Performance in Public Works Projects	Borvorn Israngkura Na Ayudhya, Masahiko Kunishima	inase-011
Development of a Routing Procedure to Assist an Earth Systems Model	Josefine Wilms, Marcus Thatcher	inase-145
The Role of Rainwater Harvesting Techniques on Preparation of Water Required for Vegetation in Arid and Semi-Arid Regions	M. T. Dastorani, B. Kouhzad, A. Sepehr, A. Talebi	inase-132

15:00-15:30: Coffee Break

Saturday 15th July 2017

Conference Room: A

Time: 15:30-17:30

CSCC '17: Algorithms for Signal Processing

Chair: Vairis Shtrauss, Cishen Zhang

A Novel Reconfigurable Mixed-Radix FFT Processor	Mudit Shrivastava, Parul Singhai, Prabhat Patel	csc-319
Splitting Magnitude Response into Real and Imaginary Parts	Vairis Shtrauss, Aldis Kalpinsh, Uldis Lomanovskis	csc-062
Finger Shape Computation and Recognition	Ching-Liang Su	csc-321
A New Stochastic Inner Product Core Design for Digital FIR Filters	Ming Ming Wong, M. L. Dennis Wong, Cishen Zhang, Ismat Hijazin	csc-221
Extraction of Human Stepping Pattern Using Acceleration Sensors	Takayuki Toyohira, Kiminori Sato, Mutsushi Watanabe	csc-320
Multidirectional Motion Estimation Algorithm for Frame Rate Up-Conversion	Songhyun Yu, Jechang Jeong	csc-035
Application of Enhanced Hadamard Error Correcting Code in Video-Watermarking and his Comparison to Reed-Solomon Code	Andrzej Dziech, Jakob Wassermann	csc-270
Simulation of Various Cardiac Conduction Phenomena with Matlab/Simulink Oscillator Model	Maxim Ryzhii, Elena Ryzhii	csc-284
Triangulation Positioning System Network	Marios Sfendourakis, Rajagopal Nilavalan, Emmanuel Antonidakis	csc-358

Saturday 15th July 2017

Conference Room: B

Time: 15:30-17:30

CSCC '17: Applications of Machine Learning

Chair: Hyontai Sug, Dimitrios Xanthidis

A Comparative Study of Control Methods for a Robotic Manipulator with Six DOF in Simulation	Georgia P. Smyrniou, Michail Papoutsidakis and Dimitrios Tseles	csc-018
Molecular Dynamics on FPGA Based Accelerated Processing Units	Mihaela Malita, David Mihaita, Gheorghe M. Stefan	csc-064
Strategies for Improving the Quality of Polling Service in Wireless Metropolitan Area Network	Zhi-Jun Yang, Yang Su, Hong-Wei Ding, Yang-Yang Ding	csc-211
Using Machine Learning Methods Jointly to Find Better Set of Rules in Data Mining	Hyontai Sug	csc-114
Fuzzification of Facial Movements to Generate Human-Machine Interfaces in order to Control Robots by XMPP Internet Protocol	Jesús A. Romualdo Ramírez, Enrique Mendéz Franco, and David Tinoco Varela	csc-219
An Experimental Design To Study Decommittment in a Collaborative Multi-Agent System in a Scheduling Domain	Michele Van Dyne, Costas Tsatsoulis	csc-285
ICT Developments and Utilization in the Omani Banking Sector	Tareq Alhousary, Jason Underwood, Dimitrios Xanthidis	csc-315

Saturday 15th July 2017

Conference Room: C

Time: 15:30-17:30

Special Session CSCC '17: 5G Architectures and Networks

Chair: George Agapiou

5G Technologies Boosting Efficient Mobile Learning	Helen C. Leligou, Emmanouil Zacharioudakis, Louisa Bouta, Evangelos Niokos	csc-303
A Novel Architectural Concept for Enhanced 5G Network Facilities	Ioannis P. Chochliouros, Ioannis Giannoulakis, Anastasia S. Spiliopoulou, Maria Belesioti, Alexandros Kostopoulos, Evangelos Sfakianakis	csc-356
Considerations for IP Interconnection of Power Grid Components	Velissarios Gezerlis, Maria Belesioti, Tilemachos Doukoglou, Ioannis Chochliouros	csc-355
Control Framework for Ultra-dense Cellular Networks	Panagiotis Matzoros, Christos Tsirakis, George Agapiou	csc-354
Energy Efficiency Tools for Residential Users	Emmanouil Zacharioudakis, Helen C. Leligou, Aikaterini Papadopoulou	csc-304
Improving Linearity in Transmitters for 4G and 5G Networks Using Intelligent Systems	Milica Bozic, Vassilis S. Kodogiannis, Djuradj Budimir	csc-217
Load Balancing in 5G Networks	Christos Tsirakis, Panagiotis Matzoros, Petros Sioutis, George Agapiou	csc-353
State-of-the-Art on Virtualization and Software Defined Networking for Efficient Resource Allocation on Multi-tenant 5G Networks	Christos Tsirakis, Panagiotis Matzoros, George Agapiou	csc-352
Evolution of Passive Optical Networks towards High-Capacity 5G Fronthaul/backhaul Networks	John Vardakas, Sotirios Papaioannou, George Kalfas, Elli Kartsakli, Angelos Antonopoulos, Nikos Pleros, Christos Verikoukis	csc-350

Saturday 15th July 2017

Conference Room: A

Time: 17:30-18:00

Plenary Lecture 15:



Design of Near-Infrared Persistent Phosphors for Bio-Imaging
by Prof. Setsuhisa Tanabe, Kyoto University, Kyoto, JAPAN.

Conference Room: B

Time: 17:30-18:00

Plenary Lecture 16:



Novel Combination Therapeutic Strategies to Enhance Epidermal Growth Factor Inhibitor Efficacy: Mevalonate Pathway Inhibitors and Activators of Cellular Stress as Potential Enhancers
by Prof. Jim Dimitroulakos, University of Ottawa, Ottawa, CANADA.

Conference Room: C

Time: 17:30-18:00

Plenary Lecture 17:



Systems Psychopharmacological Approaches in Multifactorial Mental Disorders
by Prof. Peter J. Gebicke-Haerter, Central Institute for Mental Health, Mannheim, GERMANY.

Saturday 15th July 2017

Conference Room: A

Time: 18:00-18:30

Plenary Lecture 18:



A Comprehensive Overview of Advances in Deep Learning Methods, Applications and Trends

by Prof. Dimitrios A. Karras, Sterea Hellas Institute of Technology, Dept. Automation, GREECE.

Conference Room: B

Time: 18:00-18:30

Plenary Lecture 19:



Adaptation and Desadaptation to Ultra-Endurance Athletic Training

by Prof. Jaroslav Novak, Institute of Sports Medicine, Medical Faculty of Charles University, Pilsen, CZECH REPUBLIC.

Conference Room: C

Time: 18:00-18:30

Plenary Lecture 20:



Environmental Factor, Carotid Atherosclerosis, Cerebrovascular Disease and Cardiovascular Disease

by Prof. Dafang Chen, Peking University, Beijing, CHINA.

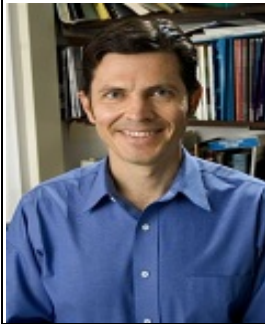
20:00: Conference Banquet

Sunday 16th July 2017

Conference Room: A

Time: 09:00-09:30

Plenary Lecture 21:



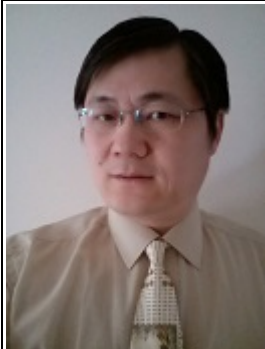
Jet Noise Simulations-Towards Noise Control

by Prof. Anastasios Lyrintzis, Embry-Riddle Aeronautical University, Florida, FL, USA.

Conference Room: B

Time: 09:00-09:30

Plenary Lecture 22:



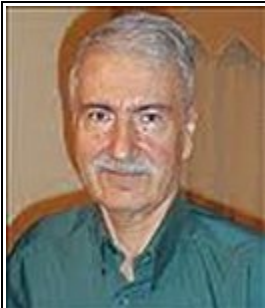
Robust Copula Dependence Measure and Equitability

by Prof. Adam Ding, Department of Mathematics, Northeastern University, Boston, USA.

Conference Room: C

Time: 09:00-09:30

Plenary Lecture 23:



On Elastic Arterial Blood Flow Systems

by Prof. Daniel N. Riahi, University of Illinois, IL, USA.

Sunday 16th July 2017

Conference Room: A

Time: 09:30-10:00

Plenary Lecture 24:



Survivability Quantification of Wireless Critical Network Systems
by Prof. Peter Stavroulakis, Technical University of Crete, GREECE.

Conference Room: B

Time: 09:30-10:00

Plenary Lecture 25:



Use of Fuzzy Numbers for Assessing Human Skills
by Prof. Michael Gr. Voskoglou, School of Technological Applications,
Graduate Technological Educational Institute of Western Greece,
GREECE.

Conference Room: C

Time: 09:30-10:00

Plenary Lecture 26:



Regulation of Sperm Capacitation by Actin Modulation
by Prof. Haim Breitbart, Bar-Ilan University, Ramat-Gan, ISRAEL.

Sunday 16th July 2017

Conference Room: A

Time: 10:00-10:30

Plenary Lecture 27:



Nonlinear and Robust Model Predictive Control of Mechatronic Systems Based on Collective Neurodynamic Optimization

by Prof. Jun Wang, Department of Computer Science, City University of Hong Kong, HONG KONG.

Conference Room: B

Time: 10:00-10:30

Plenary Lecture 28:



Low Carbon Scenarios for Romanian Electricity Sector

by Prof. Mihai Cruceru, Engineering Faculty, University "Constantin Brancusi" of Targu Jiu, Targu Jiu, ROMANIA.

Conference Room: C

Time: 10:00-10:30

Plenary Lecture 29:



The Effects of CNS-Drugs on Driving Ability

by Dr. Joris C. Verster, Utrecht University, Utrecht, THE NETHERLANDS.

10:30-11:00: Coffee Break

Sunday 16th July 2017

Conference Room: A

Time: 11:00-13:00

CSCS '17: Applications of Systems

Chair: Stepan Bilan, Kamila Kotrasová

Liquid Storage Cylindrical Tank - Earthquake Analysis	Kamila Kotrasová, Eva Kormaníková	csc-044
Research of the Method of Pseudo-Random Number Generation Based on Asynchronous Cellular Automata with Several Active Cells	Stepan Bilan, Mykola Bilan, Sergii Bilan	csc-214
Laminate Circular Cylindrical Shell	Eva Kormaníková, Kamila Kotrasová	csc-045
An Approach for Estimation of Optimal Energy Flows in Battery Storage Devices for Electric Vehicles in the Smart Grid	Gergana Vacheva, Hristiyan Kanchev, Nikolay Hinov, Rad Stanev	csc-343
State-Space Coil Modelling in Plasma Magnetic Confinement Devices	Aitor J. Garrido, Izaskun Garrido, Diego Gonzalez, Odei Molinuevo, Jon Lekube, Edorta Carrascal	csc-025
Smart Grid Integration of Small-Scale Trigeneration Systems	Gergana Vacheva, Hristiyan Kanchev, Nikolay Hinov	csc-339

Sunday 16th July 2017

Conference Room: B

Time: 11:00-13:00

EEDE '17 & CCE '17: Chemical Engineering, Energy and Environment

Chair: Mihai Cruceru, Eko Supriyanto

Considerations Regarding the Deterministic Models of Stock Management	Flavius Sarbu	inase-151
Enhancing Conduction Heat Transfer in Phase Change Materials – Graphite Inserts	Bogdan Diaconu, Mihai Cruceru	inase-177
Infectious Hazards of Hospital Staff Exposure Risks and Awareness to Poor Medical Waste Management	Ahmed N. Bdour	inase-134
Mixing in Micro-Scaled Coiled Flow Inverter of Varying Tube Diameter	Joanne Z. E. Soh, Eko Supriyanto	inase-141
Impact of Industrial Consumers on the Operating of Power Plants	A. M. Duinea, C. Bratu	inase-175
Energy Efficient Designs: Cleaner and Greener Energy Technologies, Sustainable Development and Environment	Abdeen Mustafa Omer	inase-005
Labour-Entrepreneurship Substitution Mechanism: Determining Growth, Employment and Wage in Nigeria	Chimaobi Valentine Okolo, Ani Afamefuna Jonah	inase-130
Study of the Aromatic Profile of Traminer Rot (Gewürztraminer) by GC-MS	Jiri Sochor, Mojmir Baron, Lenka Sochorova, Michal Kumsta	inase-183

Sunday 16th July 2017

Conference Room: C

Time: 11:00-13:00

MEDICINE: Recent Advances in Medical Sciences

Chair: Daniel N. Riahi, David F. Muñoz

Environmental Prints in Children Nasal Epithelium Living at the Attica Basin	Lefkothea Evrenoglou, Aikaterini-Sofia Partsinevelou, Thomas Chalastras, Anna-Maria Athanassiadou. Polyxeni Nicolopoulou-Stamati	60003-100
Blood Flow in Catheterized Elastic Artery with Stenosis	D. N. Riahi	60001-100
Single Stage Correction of Spinal Deformity Caused by a Hemivertebra Using a Transpedicular Approach	Ioan-Cristian Stoica, Alexandru Drăghici	60008-100
Economic Evaluation of Self-Monitoring of Blood Glucose as a Key Component for Type 2 Diabetes Treatment in Mexico Using Stochastic Simulation	David F. Muñoz, Olivo O. Zanela	60004-109
Prevalence of Allergic and Photoallergic Contact Dermatitis from NSAIDs: A 2-Year Experience	Caterina Foti, Angela Grassi, Baldassarre Martire, Paolo Romita	60004-106
Oscillatory Blood Flow in Elastic Artery with Stenosis	D. N. Riahi	60001-106
The Efficiency of a Posterior Approach Technique for the Management of Pyogenic Spondylitis	Ioan Cristian Stoica, George Viscopoleanu, Ștefan Mogoș, Nedelea Georgiana, Bogdan Șendrea, Alexandru Draghici	60008-103
Use of Medicinal Plants in Pregnant Women and Their Associated Side Effects	Muhammad Akram	60010-100
Reprogramming Mouse Embryo Fibroblasts to Functional Islets without Genetic Manipulation	Bhawna Chandravanshi, Ramesh Bhonde	60003-103

Sunday 16th July 2017

Conference Room: A

Time: 13:00-15:00

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Modeling and Simulation

Chair: Ján Pitel'

Catalytic Oxidation Using Nitrous Oxide	Beltran-Prieto Juan Carlos, Kolomaznik Karel	csc-271
Study of Dissolution Process and its Modelling	Beltran-Prieto Juan Carlos, Beltran-Prieto Luis Antonio	csc-272
Dividing of Metal and Plastic Components of Printed Circuit Boards	Jiri Krenek, Dagmar Janacova, Ondrej Liska, Vladimir Vasek, Oldrich Suba	csc-257
The Balance Model for Heat Transport from Hydrolytic Reaction Mixture	Dagmar Janacova, Karel Kolomaznik, Pavel Mokrejs, Vladimir Vasek, Jiri Krenek, Ondrej Liska	csc-280
Calculation of Shielding Effectiveness of Materials for Security Devices	Stanislav Kovar, Jan Valouch, Hana Urbancokova	csc-253
An Analytical Dynamic Model of Heat Transfer from the Heating Body to the Heated Room	Jana Mižáková, Ján Pitel'	csc-264
Steps Towards Modern Trends in District Heating	Lubomir Vasek, Viliam Dolinay	csc-240
Modeling the Yield of Hydrolysis Process of Leather Shavings	Hana Vaskova, Pavel Kocurek	csc-246

Sunday 16th July 2017

Conference Room: B

Time: 13:00-15:00

CSCS '17: Applications of Communications

Chair: Roman Plotnikov, Kwantae Cho

Efficient Secret Key Delivery Using Heartbeats	Kwantae Cho, Byungho Chung	csc-323
Smart Monitoring of Soldier Health and Position	Eman S. E. I-Din, Mostafa Khaled Mohamed	csc-287
Convergecast with Unbounded Number of Channels	Roman Plotnikov, Adil Erzin, Vyacheslav Zalyubovskiy	csc-212
Zero-Knowledge Universal Lossless Data Compression	Rodolfo A. Fiorini	csc-213
Traffic Model for Inter-Provider MPLS-TE	Octavio Jose Salcedo	csc-003
Traffic Optimization and Monitoring Terminals in Ad-Hoc Network through Ant Colony System	Miguel A. Chitiva-Diaz, Octavio J. Salcedo-Parra, Brayan S. Reyes-Daza	csc-002
An Efficient Technique for Interference Cancellation in Broadcast Channel of Multiuser MIMO System	Dalveer Kaur, Neeraj Kumar	csc-015
Communication Framework for Tele-rehabilitation Systems with QoS Guarantee	Nikolay Dandanov, Plamen Semov, Antoni Ivanov, Nicole Christoff, Vladimir Poulkov	csc-342

Sunday 16th July 2017

Conference Room: C

Time: 13:00-15:00

PMAMCM '17: Mathematics and Computational Methods and Computers

Chair: Adam Ding, Michael Gr. Voskoglou

New Results for the a Posteriori Estimates of the Two Dimensional Time Dependent Navier-Stokes Equation	Ghina Nassreddine, Toni Sayah	inase-121
rcd: An R Package for Estimating Robust Copula Dependence	Yi Li, Adam Ding	inase-165
Variations of the Rectangular Fuzzy Assessment Model and Applications to Human Activities	Michael Gr. Voskoglou	inase-155
Online Adaptive Coronary Heart Disease Risk Prediction Model	J. Lam, E. Supriyanto, M. H. Satria, S. Kadiman, A. Azan, A. Soesanto	inase-139
An Absorbing Markov Chain Model for Case – Based Reasoning	Michael Gr. Voskoglou	inase-1167
Use of Popular Science Materials for Teaching Projective Geometry	F. G. Lupiáñez	inase-164
Leading Order Equations and Higher Order Effects in the Water Wave Problem	Georgy I. Burde	inase-128
An Application of Fuzzy Numbers to Assessment of Human Activities	Michael Gr. Voskoglou	inase-152

15:00-15:30: Coffee Break

Sunday 16th July 2017

Conference Room: A

Time: 15:30-17:30

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Building Environment and Automation

Chair: Martin Zálešák

Effect of Implementation Quadruple Glazing Panel into the Walls on the Airborne Sound Insulation of Building Facades	Pavel Drabek	csc-244
Non-Stationary Behavior of Roof Drainage Systems	Martin Koláček	csc-286
Validation of New CFD Release by Ground-Coupled Heat Transfer Test Cases	Stanislav Sehnalek	csc-241
The Family House Control System Based on Raspberry Pi	Tomas Sysala, David Fogl, Petr Neumann	csc-251
The Effect of Blinds on Workplace Illuminance	Jiri Vincenec, Martin Mitas	csc-238
Thermoelectric Cooling in Combination with Photovoltaics and Thermal Energy Storage	Jan Skovajsa, Martin Zálešák	csc-248
Testing of Method for Assessing of Room Thermal Stability	Hana Charvátová, Martin Zálešák	csc-252

Sunday 16th July 2017

Conference Room: B

Time: 15:30-17:30

Special Session CSCC '17: Product Lifecycle and Innovation Management

Chair: Satya Shah

Evaluation of Sustainable Practices within Project Management Methods	Satya Shah, Elmira Naghi Ganji, Alec Coutroubis	csc-011
Lean Production Practices to Enhance Organisational Performance	Satya Shah, Elmira Naghi Ganji, Alec Coutroubis	csc-012
A Preliminary Literature Study of Additive Manufacturing Techniques to Improve Supply Chain Integration	Satya Shah, Stefano Mattiuzza, Elmira Naghi Ganji, Alec Coutroubis	csc-013
Impact of Sustainable Energy Savings in Nigerian Telecoms Industry	Satya Shah, Olumide Olajide Ojo, Elmira Naghi Ganji, Ahmed Kadry Idris Abdellah	csc-110
Bridging New Product Development with Sustainable Supply Chain Management Practices	Elmira Naghi Ganji, Satya Shah, Alec Coutroubis	csc-111

Sunday 16th July 2017

Conference Room: C

Time: 15:30-17:30

CSCC '17: Software Engineering and Informatics

Chair: Han Kyu Lim, Stanislaw Osowski

Design and Implementation of Application for the Hearing Impaired People	ChoulWoo Kim, Dongyun Kim, Hyundo Lee, Hanseong Park, Giung Kwon, Eunju Park, Hankyu Lim	csc-036
Crowdsourcing as an IT Help Tool to Determine Impact in the Health Sector	Juan Diego López, Roberto Osorio, Luis Moreno, Jorge Gomez, Francisco López, Aldo Vildary, Jairo Gutierrez, Liliana Gomez, Francisco Veléz	csc-209
Application of Evolutionary Algorithms for Multiple Criteria Decision Support Systems	Ludmil Mikhailov	csc-231
Software for Assessing the Performance of Anti-Plagiarism Programs	Marius Popescu, Csiki Laszlo, Antoanela Naaji	csc-019
Diagnostic System of Drill Condition in Laminated Chipboard Drilling Process	Bartosz Swiderski, Jaroslaw Kurek, Stanislaw Osowski, Michal Kruk, Albina Jegorowa	csc-016
Free and Open Source Chemistry Software in Research of Quantitative Structure-Toxicity Relationship of Pesticides	Vesna Rastija, Dejan Agić, Kristian Brlas, Vijay Masand	csc-010
Two Layer Polyglot Persistence Model for Enterprise Search	Juris Rats	csc-047
Adaptive Algorithm for Solution of Early Exercise Boundary Problem of American Put Option Implemented in Mathematica	Ladislav Lukáš	csc-316
Website Clickstream Data Visualization Using Improved Markov Chain Modelling in Apache Flume	Amjad Jumaah Frhan	csc-291

Sunday 16th July 2017

Conference Room: A

Time: 17:30-19:30

CSCS '17: Applications of Systems in Sciences

Chair: Yury Geints, Haffaf Hafid

A New Strategy for PLC Replacement in Industrial Automation Problem	Haffaf Hafid, Benani Fatima Zohra	cscs-220
Single Stator Dual PM Rotor Synchronous Machine with Two-Frequency Single-Inverter Control, for the Propulsion of Hybrid Electric Vehicles	Marcel Topor, Fabrizio Marignetti, Sorin Ioan Deaconu, Lucian Nicolae Tutelea	cscs-302
Finite Elements Analysis of Laser-Induced Heat Transfer in a Double-Shell Spherical Nanocapsule	Yury Geints, Alexander Zemlyanov	cscs-006
A Comparative Analysis for Hotel Location Selection: A Case Study for Turkey	Nazli Goker, Mehtap Dursun	cscs-296
The Seismic Retrofitting of an Existing Church	Mariella Diaferio, Dora Foti, Marilena Venerito, Michele Vitti	cscs-361
Zhou Method for the Solutions of System of Proportional Delay Differential Equations	S. O. Edeki, G. O. Akinlabi	cscs-009

Sunday 16th July 2017

Conference Room: B

Time: 17:30-19:30

CSCS '17: Signal Processing in Health Monitoring of Mechanical Systems

Chair: Dora Foti, Claudio Guarnaccia

Acoustic Emissions Analysis of a Four-Point Bending Test on a Reinforced Concrete Beam	Corrado Chisari, Claudio Guarnaccia, Nicola Lamberti, Vincenzo Piluso, Joseph Quartieri, Gianvittorio Rizzano	csc-330
Control of Framed Structures Using Intelligent Monitoring Networks	Dora Foti, Massimo La Scala, Silvia Lamonaca, Vitantonio Vacca	csc-326
Experimental Validation Of An Innovative Procedure For The Rolling Noise Correction	Massimo Viscardi, Pasquale Napolitano, Stefano Ferraiuolo	csc-345
Development of Seasonal ARIMA Models for Traffic Noise Forecasting	Claudio Guarnaccia, Nikos E. Mastorakis, Joseph Quartieri, Carmine Tepedino, Stavros Kaminaris	csc-329
Specificity in the Optical Excitation Lock-in Thermography Results Processing	Anna Stoyanova, Borislav Bonev	csc-349

Monday 17th July 2017

Conference Room: A

Time: 09:00-09:30

Plenary Lecture 30:



Studies Regarding the Use of Renewable Energy Sources to Produce Electricity

by Prof. Badea Lepadatescu, Faculty of Technological Engineering and Industrial Management, Transylvania University of Brasov, Brasov, Romania.

Conference Room: B

Time: 09:00-09:30

Plenary Lecture 31:



Iterative Learning Control Problems from Rehabilitation Engineering

by Prof. Bijoy Kumar Ghosh, Dick and Martha Brooks Regent Professor of Mathematics and Statistics, Director, Center for Bio Cybernetics and Intelligent Systems, Texas Tech University, Lubbock, TX, USA.

Conference Room: C

Time: 09:00-09:30

Plenary Lecture 32:



Deep Learning Can Detect Important Genomic Properties of Tumors from Routine MR Imaging

by Dr. Bradley Erickson, Mayo Clinic, Arizona, AZ USA.

Monday 17th July 2017

Conference Room: A

Time: 09:30-10:00

Plenary Lecture 33:



Novel Optical Properties of Coupled Quantum - Plasmonic Nanostructures

by Prof. Emmanuel Paspalakis, Materials Science Department, School of Natural Sciences, University of Patras, Patras, Greece.

Conference Room: B

Time: 09:30-10:00

Plenary Lecture 34:



The Design of Resilient and Adaptive Communication Networks with Intrusion Detection, Using Statistical and Artificial Intelligence Methods

by Prof. Demetrios Kazakos, Professor of Mathematics, Texas Southern University, Houston, Texas, TX, USA.

Conference Room: C

Time: 09:30-10:00

Plenary Lecture 35:



Spin Chemistry and Effects of Electromagnetic Fields on Living Organisms

by Prof. Gertz I. Likhtenshtein, Ben-Gurion University of the Negev Beer-Sheva, ISRAEL & Institute of Problems of Chemical Physics, RUSSIA.

10:00-10:30: Coffee Break

Monday 17th July 2017

Conference Room: A

Time: 10:30-12:30

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Materials Science and Technology - Part I

Chair: Lenka Hylova

Impact Behaviour of Acrylonitrile-Butadiene-Styrene after Temperature and Humidity Load	Lenka Hylova, Miroslav Manas	csc-265
Optimization of Fall Height Setting for Drop Weight Tested Polypropylene	Lenka Hylova, Miroslav Manas	csc-266
The Influence of Regression Curve Parameters of Creep Behaviour on Measured Data Prediction	Martin Reznicek, Janostik Vaclav, Ondrej Bilek	csc-258
Effect of Pigment Concentration on Mechanical Properties of Polycarbonate	Vaclav Janostik, Vojtech Senkerik	csc-269
Ultra Nano-Hardness of Surface Layer of Irradiated High-density Polyethylene (HDPE)	David Manas, Jozef Dobransky, Lenka Chvatalova	csc-261
Mechanical Properties of Surface Layer of Unfilled Polypropylene	David Manas, Jozef Dobransky, Lenka Chvatalova	csc-262

Monday 17th July 2017

Conference Room: B

Time: 10:30-12:30

PMAMCM '17: Applied Mathematics and Statistics

Chair: Demetrios Kazakos, Massimo Campanino

The Design of Resilient and Adaptive Communication Networks with Intrusion Detection, Using Statistical and Artificial Intelligence Methods	Demetrios Kazakos, Nancy L. G. Griesinger	inase-171
A Cluster Expansion for Interacting Spin-Flip Processes	M. Campanino, M. Gianfelice	inase-147
Mean Square Consistency on Numerical Solutions of Stochastic Wave Equation with Cubic Nonlinearities on 2D Rectangles	Haziem M. Hazaimeh	inase-007
A Comparison of Statistical Analysis Methodologies for Longitudinal Data Affected by Non-Normal Within-Subject Errors	N. Glenn Griesinger, Demetrios Kazakos	inase-178
Binom-Discrete Lindley Distribution	Coşkun Kuş, Yunus Akdoğan, Akbar Asgharzadeh, Ismail Kınacı	inase-179
A Study on Smooth Varieties with Differentially Simple Coordinate Rings	Michael Gr. Voskoglou	inase-166

Monday 17th July 2017

Conference Room: C

Time: 10:30-12:30

BIOMEDCH '17: Biochemistry and Medical Chemistry

Chair: Gertz I. Likhtenshtein, Nigel Aylward

A Prebiotic Surface Catalysed Photochemically Activated Synthesis of L-Cystine	Nigel Aylward	60002-118
Spin Chemistry and Radio- and Microwave Radiations Effects on Living Organisms	Gertz I. Likhtenshtein	60002-127
Indirect Highly Efficient Cell Therapy by Human Placental Cells Secretome for Mitigation Acute Radiation Syndrome, Induction of Regeneration of Compromised Bone Marrow and for Tissue Regeneration in Various Inflammatory Conditions	Evegenia Volinsky, Astar Hailu, Boaz Adani, Claudia Moresi, Ilana Stav, Myriam Grunewald, Eli Keshet, Raphael Gorodetsky	60002-121
A Prebiotic Surface Catalysed Photochemically Activated Synthesis of L-Methionine and L-Homocysteine	Nigel Aylward	60002-115
Interrelation of Carcinogenic Properties of Chemical Compounds with their Electronic and Information Factors	Vladimir K. Mukhomorov	60002-124
Secondary Metabolites of Inula Caspica	K. A. Eshbakova, B. Dj. Komilov, H. A. Aisa, N. Dj. Abdullaev	60002-109
Evaluation of Medicine Distribution, Regulatory Privatisation, Social Welfare Services and its Alternatives	Abdeen M. Omer	60002-112
Influence of Heavy Metals from Biodegradable Substrates on some Agricultural Plants	Cristian Predescu, Andra Predescu, Ecaterina Matei, Andrei Berbecaru, Claudia Dragan, Cristian Pantilimon	60002-103

Monday 17th July 2017

Conference Room: A

Time: 12:30-14:30

Special Session CSCC '17: Informatics in Control Theory and its Applications

Title: Materials Science and Technology - Part II

Chair: Ales Mizera

Impact Resistance of High-Density Polyethylene Against Falling Penetrator with Different Potential Energy	Ales Mizera, Petr Chalupa, Ivan Hudec	csc-267
Influence of Fall Height on High Impact Polystyrene Deformation and Characteristics of Drop Weight Test	Ales Mizera, Petr Chalupa, Ivan Hudec	csc-268
Evaluation of Nano-Mechanical Properties and Morphology of Filled Polypropylene Modified by Irradiation	Martin Ovsik, Michal Stanek, Martin Reznicek	csc-259
Influence of Electron Beam Irradiated on the Surface Properties of Polyamide Measured by Micro-Indentation Test	Martin Ovsik, Michal Stanek, Vojtech Senkerik	csc-260
Change of Notch Impact Strength Depending on Radiation Dose and Test Temperature	Bednarik Martin, Stoklasek Pavel	csc-275
Influence of Temperature and Moisture on the Mechanical Properties of Irradiated Thermoplastics Materials	Stoklasek Pavel, Bednarik Martin	csc-276

Monday 17th July 2017

Conference Room: B

Time: 12:30-14:30

CSCS '17: Applied Mathematics in Systems

Chair: Mikhail Matveev, Józef Małecki

Assessment of the Stability of Morphological ECG Features and their Potential for Person Verification/Identification	Mikhail Matveev, Ivaylo Christov, Vessela Krasteva, Giovanni Bortolan, Dimitar Simov, Nikolay Mudrov, Irena Jekova	csc-023
Design a Fuzzy Control System for Unmanned Surface Vehicle	Józef Małecki	csc-317
Home Automation and Simulation of Presence in Empty Environments	Israel Marques, Paulo Garcia	csc-033
Maximum Power Lines of Solar and Wind Generators	S. Kolesnik, A. Kuperman	csc-228
A Method for Strict Remote User Authentication Using Non - Reversible Galois Field Transformations	Nikolaos G. Bardis, Oleksandr P. Markovskyi, Nikolaos Doukas	csc-351
Local Fractional Operator on Quadratic Riccati Differential Equation with Variable Coefficients	S.O. Edeki, G.O. Akinlabi, R. Borkor	csc-014

14:30-15:00: Coffee Break

Notes