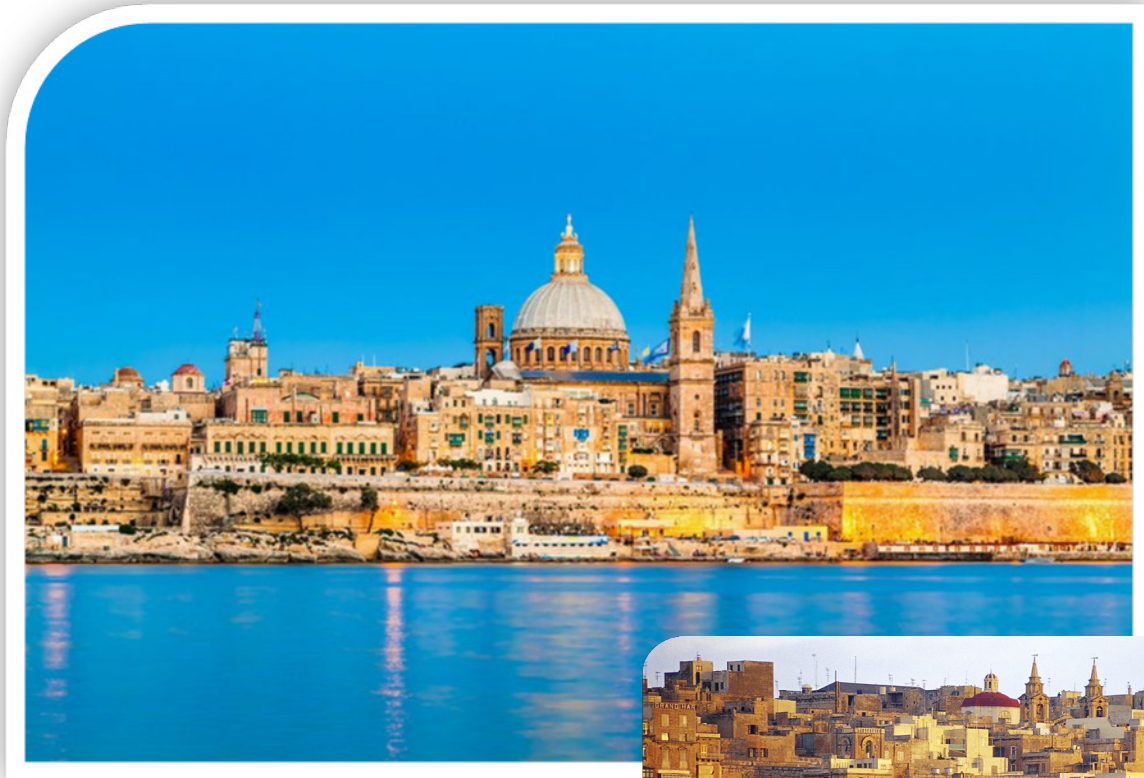


Conference Program



Sliema, Malta
August 17-19, 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.

Conference Location:

**The Palace Hotel
High Street,
Sliema SLM 1542, Malta**

Monday 17th August 2015

Conference Room: A

Time: 09:00-09:45

Plenary Lecture 1:



Neurodynamic Optimization Approaches to Parallel Data Selection in the Era of Big Data

by Prof. Jun Wang, Department of Mechanical & Automation Engineering, The Chinese University of Hong Kong Shatin, New Territories, HONG KONG.

Conference Room: A

Time: 09:45-10:30

Plenary Lecture 2:



Conservative Averaging Method: Applications and Theory

by Prof. Andris Buikis, University of Latvia, LATVIA.

10:30-11:00: Coffee Break

Monday 17th August 2015

Conference Room: A

Time: 11:00-13:00

Special Session: Modern Management Trends in Small Business

Chair: Deniss Sceulovs, Elina Gaile-Sarkane

Cross-Disciplinary Methodology for Development of Entrepreneurial Skills: The Case of Riga Technical University	Anita Straujuma, Elīna Gaile-Sarkane	5998015
The Diversity of Management Theories for SME's Development	Deniss Sceulovs, Elina Gaile-Sarkane	6078003
Internet of Things as a Framework for E-Recruitment's Business Model?	Deniss Sceulovs, Vladimir Shatrevich	6006007
e-Education VS Traditional Education: Perspectives and Challenges	Deniss Sceulovs, Elina Gaile-Sarkane, Elina Miežite	5989003
Reducing Employee Turnover in Small Business - An Application of Employee Turnover Models	Iveta Ozolina-Ozola	6019003

Monday 17th August 2015

Conference Room: B

Time: 11:00-13:00

Special Session: Mathematical Modelling, Optimization and Control of Wind and Photovoltaic Power Plants

Chair: Alexandru Dumitrache, Florin Frunzulica

An Analytic Approach to the Design and Payback Time of PV Plants	G. Bonanno, S. De Caro, A. Sciammetta, T. Scimone, A. Testa	6002003
Identification of Solar Cell Parameters with Firefly Algorithm	Mohamed Louzazni, Aurelian Craciunescu, El Hassan Aroudam	6082007
A Unified Approach to Use of Coprocessors of Various Types for Solving Global Optimization Problems	Victor Gergel	6060003
Comparison of Hill-Climbing and Artificial Neural Network Maximum Power Point Tracking Techniques for Photovoltaic Modules	Zarrad Ons, Jemaa Aymen, Aurelian Crăciunescu, Mihai Popescu	6069003
Energen System for Power Supply of Passive House - Case Study	Gheorghe Badea, Raluca Felseghi, Ioan Așchilean, Andrei Bolboacă, Dan Mureșan, Teodora Șoimoșan, Ioan Ștefănescu, Simona Răboacă	6067011
Optimization Approach to the Solving of the Problem of N-version Software Systems Design	I. V. Kovalev, P. V. Zelenkov, D. I. Kovalev	5916003
Data Structuring for the Ontological Modelling of Wind Energy Systems	Adrian Groza	6057003
Flapping wing as an alternative method of harvesting energy from wind	Florin Frunzulica, Marius Stoia, Ion Predoiu, Alexandru Dumitrache	6091003

Monday 17th August 2015

Conference Room: C

Time: 11:00-13:00

HSBS '15: Health Science and Biomedical Systems

Chair: Atsushi Fukasawa, Yumi Takizawa

Oxidative Stress in Diabetes: Ammonia Breath Analysis by Laser Photoacoustic Spectroscopy	Mioara Petrus, Ana-Maria Breatu, Cristina Popa	72708-115
Biomedical Applications of CO2 Laser Photoacoustic Spectroscopy	Cristina Popa, Mioara Petrus, Ana M. Bratu	72708-112
A Computational Study of a Prebiotic Synthesis of L-Tyrosine	Nigel Aylward	72708-121
<i>Positive and Negative Action Potentials in Paramecium Relating to Neurons</i>	<i>Yumi Takizawa, Atsushi Fukasawa, Hiro-aki Takeuchi</i>	<i>72708-106</i>
<i>Activity of a Neuron for Generation of Pulse and Plateau with Positive and Negative Potentials</i>	<i>Atsushi Fukasawa, Yumi Takizawa</i>	<i>72708-103</i>
A Hypothesis about Factors that Adopting Telemedicine in Developing Countries	Mohd Khanapi Abd Ghani, Mustafa Musa Jaber	72708-100
The Viscosity Behavior of Biocompatible Solutions Including Riboflavin and Gelatin	Bariş Demirbay, Fatma Gülay Acar	72708-133

Monday 17th August 2015

Conference Room: A

Time: 13:00-15:00

ECCE '15: Chemical Engineering

Chair: Esther M. Sulman, Linda Nikoshvili

<i>Catalyst of Suzuki Cross-Coupling Based on Polymeric Matrix of Amino-Functionalized Hypercrosslinked Polystyrene</i>	<i>Nadezhda Lyubimova, Linda Nikoshvili, Alexey Bykov, Alexander Sidorov, Valentina Matveeva, Mikhail Sulman, Esther Sulman</i>	72710-106
<i>Reducing of Energy Consumption of Polymer Wastes Thermal Recycling</i>	<i>Yury Yu. Kosivtsov, Esther M. Sulman, Yury V. Lugovoy, Anna Yu. Kosivtsova, Antonina A. Stepacheva</i>	72710-109
<i>Thermocatalytic Refining of Gaseous Products of Fast Pyrolysis of Plant Biomass Waste</i>	<i>Lugovoy Yu. V., Chalov K. V., Sulman E. M., Kosivtsov Yu. Yu., Stepacheva A. A.</i>	72710-112
<i>Influence of Ultrasonic Preprocessing on Neutralization of Oil-Slimes</i>	<i>Esther M. Sulman, Ekaterina A. Prutenskaya, Mikhail G. Sulman, Yuriy Yu. Kosivtsov, Irina Yu. Tyamina</i>	72710-115

Monday 17th August 2015

Conference Room: B

Time: 13:00-15:00

MCSI '15: Signal Processing and its Applications

Chair: Xiaodi Wang, Min Han

Digital Signature Scheme Based on the Conjugate Twisted Root Extraction Problem	Maheswara Rao Valluri	6041003
Discrete Time Stability Margins from Stein's Equation	Bengi Yıldız, Vakif Dzhafarov, Shankar P. Bhattacharyya	6086003
Small-Signal Gain Calculations for a CMOS Analog Amplifier Using Short Channel Equations at 28 nm Technology	Nedaa Al Twalbeh, Mahmoud Hassan, Hazem W. Marar	5906027
<i>M-band Wavelet Based Pseudo Quantum Watermarking</i>	<i>Tong Liu, Xuan Xu, Xiaodi Wang</i>	<i>6065003</i>
Analysis of Rain Fields Motion in Radar Images Using Different Methods of Optical Flow	O. Raaf, A. E. H. Adane	5700072
Discovering Long Maximal Frequent Patterns	Shu-Jing Lin, Don-Lin Yang, Yi-Chung Chen	6009015

Conference Room: C

Time: 13:00-15:00

ISCGAV '15: Signal Processing, Computational Geometry and Artificial Vision

Chair: A. N. Pronichev, Dariusz Jacek Jakóbczak

<i>Experimental Study of Effectiveness of Blood Cells Recognition for Acute Leukemia Diagnosis</i>	<i>V. G. Nikitaev, O. V. Nagornov, A. N. Pronichev, E. V. Polyakov, V. V. Dmitrieva</i>	72702-139
Interactive Image Search for Mobile Devices	Komal V. Aher, Sanjay B. Waykar	72702-133
Comparative Analysis of Wavelet Thresholding for Image Denoising Using Discrete Wavelet Transform	Anjaly Chauhan	72702-103
<i>Geometry of the Curve and Object Recognition via Orthogonal Matrices</i>	<i>Dariusz Jacek Jakóbczak</i>	72702-109
Conversion of English Text- To- Speech (TTS) Using Indian Speech Signal	R. Shantha Selva Kumari, R. Sangeetha	72702-112
<i>Geometry of the Curve Using Nodes Combination with Probability Distribution</i>	<i>Dariusz Jacek Jakóbczak</i>	72702-121
A Novel Radar Signal Recognition Method Based on Deep Learning	Dongqing Zhou, Xing Wang, Yuanrong Tian, Ruijia Wang	72702-127
An Efficient Descriptor for Image Retrieval: Application to COIL-100 Database	El Asnaoui Khalid, Chawki Youness, Aksasse Brahim, Ouanan Mohammed	72702-130
A Novel Processing Chain for Shadow Detection and Pixel Restoration in High Resolution Satellite Images Using Image Imposing	A. Mydheen Jasmine, S. Allwin Devaraj	72702-100
3D Object Modeling by Structured Light and Stereo Vision	Uğur Özenç, Oğuzhan Taştan, M. Kemal Güllü	72702-124

15:30-16:00: Coffee Break

Monday 17th August 2015

Conference Room: A

Time: 15:30-17:30

ISMAEDEL '15: Integrated Systems and Management for Energy, Development, Environment and Health

Chair: Lidia Sas Paszt, Asad A. Salem

Influence of Substrate Temperature on Microbial Biodiversity in Soilless Cultures of 'Melen' Cucumber	Lidia Sas Paszt, Paweł Trzciński, Ryszard Hołownicki, Krzysztof Weszczak, Waldemar Treder, Paweł Konopacki	72707-124
Isothermal Simulations of Gas-Turbine Swirl Injector Flow	Asad A. Salem	72707-109
Solar Assisted LNG Energy Conversion Power Plant (SALTEC)	Asad Salem, Faisal Al-Balooshi	72707-106
<i>Improved Chitosan Production from Tiger Shrimp Shell Waste (Penaeus Monodon) by Multistage Deacetylation Method and Effect of Bleaching</i>	<i>L. O. Ahmad, D. Permana, Wahab, S. H. Sabarwati, L. O. A. N Ramadhan, U. Rianse</i>	72707-103
<i>Investigation of the horizontal fine dust variation in an industrial and rural area in Germany by mobile measurements in periods of high and low air pollution</i>	<i>Konradin Weber, Emad Scharifi, Christoph Böhlke</i>	72707-112

Monday 17th August 2015

Conference Room: B

Time: 15:30-17:30

MCSI '15: The Applications of Control at Robotics, Neural Networks & Machines

Chair: Rami A. Maher, Ian D. Walker

Design of a Discrete Deadbeat Controller Based on Block Diagram Oriented Genetic Programming	Rami A. Maher, Mohamed J. Mohamed	5700066
Time Response Computation of Control Systems with Fractional Order Lag or Lead Controller	Nusret Tan, Derek P. Atherton, Ali Yüce, Furkan Nur Deniz	6056007
Robot - Human Handovers Based on Trust	Ian D. Walker, Laine Mears, Rahman S. M. Mizanoor, Richard Pak, Sekou Remy, Yue Wang	5700001
Sensorless Speed High Gain Observer Based on Field-Oriented Control for the Asynchronous Machine	A. Chouya, M. Chenafa, A. Mansouri	6071003
Applying of Fuzzy Logic to Precise Control of the Ship Motion	Józef Małecki	5874007
Asymptotic Results for Controlling Type II Error of a Three-Stage Sequential Procedure for the Mean	Ali S. Yousef, Mun S. Son, Hosny I. Hamdy	5956003
A Robust Position Control Scheme for a Commercial Induction Motor Using a Rotor Flux and Load Torque Estimator	Oscar Barambones, Patxi Alkorta, Jose M. Gonzalez de Durana, Jose A. Cortajarena	5793003
Numerical Investigation of the Two-Dimensional Neural Field Equation with Delay	Pedro M. Lima, Evelyn Buckwar	5878007
Detection Faults for Induction Machine Sensors Based on Fuzzy Logic Techniques	A. Amrane, A. Larabi	6034003
Optimization of Multichannel Queueing Models	Kondrashova E. V.	5700024

Monday 17th August 2015

Conference Room: C

Time: 15:30-17:30

Special Session: Stochastic Calculus and Applications

Chair: Mounir Zili

Stochastic Simulation Method for Linearly Implicit Ordinary Differential Equations	Flavius Guias	5888007
Capital Adequacy and Risk Management in Banking Industry	Fatma Chakroun, Fathi Abid	5700021
Covariance Measure and Stochastic Heat Equation with Fractional Noise	Ciprian A. Tudor, Mounir Zili	5862003
Experimental Investigation of the Performance of a Ground-Source Heat Pump System for Buildings Heating and Cooling	Abdeen Mustafa Omer	6035003

Conference Room: A

Time: 17:30-19:30

TELE-INFO '15: Telecommunications and Informatics

Chair: George Valentin Stoica,, Humberto Cesar Chaves Fernandes

The Roadmap for the Arabic Chapter of DBpedia	Haytham Al-Feel	72701-142
Querying DBpedia Using HIVE-QL	Ahmed Salama Ismail, Haytham Al-Feel, Hoda M. O. Mokhtar	72701-136
<i>Managing Network Resources with Flow (De) Multiplexing Protocol</i>	<i>Eugene Chemeritskiy, Eugene Stepanov, Ruslan Smeliansky</i>	72701-133
High Performance CUDA Based CNN Image Processor	George Valentin Stoica, Radu Dogaru, Elena Cristina Stoica	72701-130
Secret Sharing in Visual Cryptography Using NVSS and Data Hiding Techniques	Misha Ann Alexander, Sanjay Waykar	72701-127
Design of Microstrip Antenna with Greater Bandwidth at Frequencies of GHz and THz	Humberto Cesar Chaves Fernandes, Tarcisio Da Silva Barreto, Otávio Paulino Lavor	72701-124
Touch Panel Design for KNX Home Automation System	Ahmet Burak Gökbayrak, Semavi Akin, Oğuzhan Urhan	72701-118
Certificate Revocation to Cope with False Accusations in Ad Hoc Networks	K. Thamizhmaran	72701-100
Comparative Study of the Radiation Performance between Uniform and Non-uniform Excitation of Linear Patch Antenna Array for UWB Radar Applications	Abdellatif Slimani, Saad Bennani, Ali El Alami, Houda Harkat	72701-145
A Theoretical Review on IT Project Success/Failure Factors and Evaluating the Associated Risks	Hamed Taherdoost, Abolfazl Keshavarzsaleh	72701-148

Monday 17th August 2015

Conference Room: B

Time: 17:30-19:30

MCSI '15: Computers & Mathematical Models

Chair: Juan F. Navarro, Marianna Laviola

Computation of Periodic Solutions in Systems of Differential Equations of First Order	Juan F. Navarro	6042003
A Genetic Algorithm Approach for Estimating Processes Derivatives in On-Line Optimization	M. Mansour, A. Affak	5700081
Comparison of Analytical and Numerical Methods for Thermal Analysis of a SRM	Gholamreza Zandesh, Javad Shokrolahi Moghani, Mina Ghoorchian	5983007
An Interactive Application for Modeling Two-Dimensional IFS Fractals	Elena Hadzieva, Jovan Petkoski	6062003
Hybrid Model for Early Diabetes Diagnosis	A. A. Ojugo, A. O. Eboka, R. E. Yoro, M. O. Yerokun, F. N. Efozia	6072003
Models of a PaO ₂ Course During a Stepwise Change of Continuous Distending Pressure in HFOV	Marianna Laviola, Jakub Rafi, Martin Rozanek, Petr Kudrna, Karel Roubik	6003007
A Duplicate Code Checking Algorithm for the Programming Experiment	Haoxin Wang, Jingdong Zhong, Defu Zhang	6075003
Computation of Stabilizing PI and PID Parameters for Multivariable System with Time Delays	Nour El Houda Mansour, Sami Hafsi, Kaouther Laabidi	6051003

Conference Room: C

Time: 17:30-19:30

MCSI '15: Robotics, Sensors & signal Processing

Chair: Patrick Juola, Victor J. Law

Industrial Uses for Authorship Analysis	Patrick Juola	5700033
Discrete Event Simulation Robotic Technology of Mining	Vasily V. Sinoviev, Alexy N. Starodubov, Mihail U. Dorofeev, Victor V. Okolnishnikov	5898003
Time Difference Calculation Based on Signal Starting Point Detection	Wan-Zhen Zhou, Yu Ling, Yong-Qiang Zhang, Wei-Dong Wu	5892007
A Posteriori Simulation of Differential Equations of the Elastic Element of Satellite-Gyrostad	V. A. Rusanov, L. V. Antonova, A. V. Daneev, A. E. Kumenko	5700004
Energy Efficient for Heat Exchanger, Refrigeration and Air Conditioning	Abdeen Mustafa Omer	5857003
Detection Faults for Induction Machine Sensors Based on Fuzzy Logic Techniques	A. Amrane, A. Larabi	5700042
Steganalysis of a Pulsed Plasma Jet ICCD Camera Image Using LabVIEW	Victor J. Law, Denis P. Dowling	5700018
Polar Orthogonal Polynomials on the Unit Circle	Rachid Benzine, Yamina Laskri, Abdelhamid Rehouma	5700008
Hand Vein Authentication Based Wavelet Feature Extraction	Sarah Benziane, Abdelkader Benyettou	5700009

Poster

EEG Signals Classification Based on Wavelet Packet and Ensemble Extreme Learning Machine	Min Han, Zhuoran Sun, Jun Wang	5700057
Multivariate Chaotic Time Series Prediction Using a Wavelet Diagonal Echo State Network	Meiling Xu, Min Han, Jun Wang	5700048

Tuesday 18th August 2015

Conference Room: A

Time: 09:15-10:00

Plenary Lecture 3:



On Some Functional Equations Arising in the Communication Networks

by Prof. Janusz Brzdek, Pedagogical University of Cracow,
POLAND.

Tuesday 18th August 2015

Conference Room: A

Time: 10:00-12:00

COMATIA '15: Communication and Management in Technological Innovation and Academic Globalization

Chair: A. M. Prasanna Kumar, Borut Rončević

Performance Analysis of Adaptive DOA Estimation Algorithms for Mobile Applications	A. M. Prasanna Kumar, Ramesha K., Muralidhar Kulkarni	72711-100
What is Lubricating Technological Innovation Networks? Qualitative Comparative Study of Denmark and Slovenia	Borut Rončević	72711-115
Strategic Communication as a Path-Creation Tool for Technological Latecomers	Borut Rončević	72711-112
The Role of Social Networks in the Framework of the Regional Development	Victor Cepoi	72711-109
Regional Development Performance – A Focus on the Innovation Processes	Victor Cepoi	72711-106
Innovative Mechanisms for Strengthening Political Engagement of the Citizenry	Matevž Tomšič, Petra Kleindienst	72711-103

Tuesday 18th August 2015

Conference Room: B

Time: 10:00-12:00

MCSI '15: Computational Methods

Chair: Eduard Cheres, A. Bonini Neto, Alexander Bolshev

Mixed-Hybrid Finite Element Method for Linear Elasticity in a Cracked Domain	Abdeslam El Akkad, M. A. Bennani, Sadrati Thami, Ahmed Elkhalfi	6050003
From Heat Balance Data to Turbine Model with the Bond Graph Approach	Eduard Cheres	6036003
<i>A Three-Dimensional Model of Crown Forest Fire Spread</i>	<i>Valeriy A. Perminov</i>	<i>6070003</i>
Design of Smart Bridge Based on WSN for Efficient Measuring of Temperature, Strain and Humidity	Mohamed Bouyahi, Houria Rezig, Tahar Ezzedine	6061007
Geometric Parameterization Technique for Continuation Power Flow Based on Quadratic Curve	A. Bonini Neto, E. M. Magalhães, D. A. Alves	5700030
Theoretical Study of Thermal Performance of Rock Bed Storage	Suad H. Danok, Ehsan F. Abbas, Mousa M. Weis	6083003
Numerical Analysis of Behavior Offshore Anchored Structures and Improvement of Systems of their Holding	Ilya Teslyaruk, Alexander Bolshev	6032003

Tuesday 18th August 2015

Conference Room: C

Time: 10:00-12:00

MCSI '15: Data Processing and Simulation

Chair: Milena Karova, Gergana Todorova

Big Data Analysis, from Cloud to Crowd the Emergence of a New Data Analysis Paradigm	Peter Wlodarczak, Jeffrey Soar, Mustafa Ally	5863003
Comparative Analysis of Algorithms for Communication Encryption	Milena Karova, Gergana Todorova, Mariana Todorova, Ivailo Penev, Ventsislav Nikolov	5700060
Optimization of Mutual Information-Based Stochastic Gradient Ascend Algorithm for Image Registration	S. V. Voronov, I. V. Voronov	5700015
Car's Detection by Gaussian Receptive Field Features, the Eigenvalues and MLP	Sarah Benziane Hachemi, Abdelkader Benyettou	5700012
Studies Regarding the Specificity of the Abrasive Processes	Badea Lepadatescu, Anisor Nedelcu, Adela-Eliza Dumitrascu	5700068
Simulation of Coal Mining in Flat-Lying Coal Seam	Victor V. Okolnishnikov, Sergey V. Rudometov, Sergey S. Zhuravlev, Vasily V. Sinoviev	5898007
Standardization of Electronic Identity Management	Roumen Trifonov, Radoslav Yoshinov	6052003
Measuring the Industrial Processes Performance by Simulation	Florina-Cristina Filip, Vladimir Mărăscu-Klein	6039003
Numerical Solution of Fuzzy Control Problems Using Linear Programming	F. Nobakht, Gh. Atazandi, A. V. Kamyad	5853003

12:00-12:30: Coffee Break

Tuesday 18th August 2015

Conference Room: A

Time: 12:30-14:30

ICFA '15: Finance, Accounting and Law

Chair: Sergio Cavagnoli, Ezzeddine Mosbah

Micro Finance Institutions' Behavior: Determinants of Portfolio Quality in MENA Region	Ezzeddine Mosbah, Mayada Ben Slama, Nikos Mastorakis	72706-103
The Investment Grade Indicator to Corporations: A Theoretical Essay	Sergio Cavagnoli Guth, Maria Emilia Camargo, António Jorge Fernandes, Maria Elizabeth Pereira Teixeira Rocha	72706-100
<i>Analysis of Tunisian Labour Market Rigidity</i>	<i>Ezzeddine Mosbah, Zeineb Zouari, Nikos Mastorakis</i>	<i>72706-112</i>
Legal Comparative Measures Regarding Tax Incentives	Florin Fainisi, Victor Alexandru Fainisi	72706-109
Considerations Regarding Simulation According to the New Romanian Civil Code and the Previous Romanian Civil Code	Diana Gorun	72706-115

Tuesday 18th August 2015

Conference Room: B

Time: 12:30-14:30

MCSI '15: Applications of Computational Methods

Chair: Toru kato, Kai Feldhusen

Experiment of a Freight Management System with the Multiple Ambient Calculus	Toru kato, Atom Miyai, Masahiro Higuchi	5860003
Influence of Architecture on Reliability and Safety of the SRCS with Safety PLC	Peter Cuninka, Pavol Závacký, Maximilián Strémy	6058003
Validation of a Dynamically Adaptive Lattice Boltzmann Method for 2D Thermal Convection Simulations	Kai Feldhusen, Ralf Deiterding, Claus Wagner	5907011
On Modeling the Chemical Apparatuses for Reactions with Insoluble Products	Laura Suleimen, Alia Bekaulova, Lyazzat Ramatullaeva, Zaurekul Kerimbekova	6012015
The Effect of Transient Heat Transfer Analysis on Corrugated Web Beams	Ioan Both, Frantisek Wald	5998027
Coastal Water Classification Using Pollution Signature Draw	Bahia Lounis, Aichouche Belhadj Aissa	5700079
Hydrodynamics of Orthotropic Shapes Utilizing Ellipsoidal Harmonics	Ioannis K. Chatjigeorgiou, George Dassios, Touvia Miloh	5914003

Tuesday 18th August 2015

Conference Room: C

Time: 12:30-14:30

MCSI '15: Mathematical Models and its Applications

Chair: H. M. Faheem, A. A. Ojugo

Hybrid Model for Early Diabetes Diagnosis	A. A. Ojugo, A. O. Eboka, R. E. Yoro, M. O. Yerokun, F. N. Efozia	6037003
Modeling the Probability of Failure-Free Operation of Control Systems	Michalconok German, Korytar Marek, Nemeth Martin	6056003
Three-Term Recurrence Relation of Polar Bergman Polynomials over Domains with Corners	Abdelhamid Rehouma	5877003
<i>Thermal Power Analysis of a Single Family Housing</i>	<i>Stan Ivan Felicia Elena, Dinu Radu Cristian</i>	<i>6053003</i>
Design and Implementation Unified Model for Testing Object-Oriented Application Development Tools	Pavel P. Oleynik	6013003
<i>Solving Motif Finding Problem on Heterogeneous Cluster Using CPUs, GPUs, and MIC Architectures</i>	<i>H. M. Faheem</i>	<i>6063003</i>
Network Proximity and Physical Web	Yousef Ibrahim Daradkeh, Dmitry Namiot	6066003
Framework Design for Statistical Fraud Detection	A. A. Ojugo, A. O. Eboka, R. E. Yoro, M. O. Yerokun, F. N. Efozia	6072007

Conference Room: A

Time: 14:30-16:30

HSBS '15: Maths and Biology

Chair: Janusz Brzdek, Jamshid Dehmeshki, Nadja Damij

A Computational Study of a Prebiotic Synthesis of L-Valine	Nigel Aylward	72708-118
Investigation of Mechanical Properties of a Biocompatible Film from Riboflavin and Gelatin	Bariş Demirbay, Gülşen Akin Evingür, Fatma Gülay Acar	72708-130
Do Excel and iGrafx Provide the Same Healthcare Process Simulation Results?	Nadja Damij, Franc Jelenc, Biljana Mileva Boshkoska	72708-127
Statistical Methods in Healthcare Management: Case Study of Slovenian Clinic	Nadja Damij, Franc Jelenc, Jana Suklan	72708-124
Laryngograph as a Tool in Diagnosis and Therapy of Voice Disorders	Jolanta Zielińska, Ewa Brzdek	72708-139
DaVinci System, a Partner or just a Tool ?	Săvulescu Florin, Cîrlan Cristian	72708-145
<i>Fully Automatic Segmentation and Detection of Pulmonary Artery and Embolism in CTA Images</i>	<i>Jamshid Dehmeshki, Y. Ebrahimdoost, S. D. Qanadli</i>	72708-148

Tuesday 18th August 2015

Conference Room: B

Time: 14:30-16:30

MCSI '15: Economics and Mathematical Methods

Chair: Josef Arlt, Rusakov Oleg

Forecasting of the Annual Inflation Rate in the Unstable Economic Conditions	Josef Arlt, Markéta Arltová	5907023
Pricing in the Real Estate Market as a Stochastic Limit. Log Normal Approximation	Rusakov Oleg V., Jaksumbaeva Olga I., Ivakina Anastasiya A., Laskin Michael B.	5899043
Using the Committee Machine Method to Forecasting on the FOREX	Oleg I. Nikonov, Marina A. Medvedeva, Fedor P. Chernavin	5927003
Alternative Methods to Estimate the State Price Density	Sergio Ortobelli Lozza, Noureddine Kouaissah	5933003
Performance Evaluation of Advanced Encryption Standard Algorithm	Daniel F. García	5858003
A Secure and Auditable Cryptographic-Based e-Voting Scheme	Mona F. M. Mursi, Ghazy M. R. Assassa, Ahmed A. Abdel Hafez, Kareem M. Abo Samra	6081003

Conference Room: C

Time: 14:30-16:30

MCSI '15: Informatics & its Applications

Chair: Badea Lepadatescu, Răscăcea Bogdan

Proposal of Knowledge Discovery Platform for Big Data Processing in Manufacturing	Lukas Spendla, Lukas Hrcka, Pavol Tanuska	6049003
Research of Performance of Distributed Platforms Based on Clustering Algorithm	Dijian, Yanfeng Peng	6055003
Some Kinds of Use of i-Textbooks	Eva Zmazek, Blaz Zmazek, Jan Zmazek	6005019
Multiple Choice Question Tests – Advantages and Disadvantages	Jindrich Klufa	5902019
Comparison of ACO and GA Techniques to Generate Neural Network Based Bezier-PARSEC Parameterized Airfoil	Waqas Saleem, Athar Kharal, Riaz Ahmad, Ayman Saleem	5900023
Introduction to the IDL Application in the Weather	Wan-Zhen Zhou, Quan-Bing Hou	5925003
Simulation and Study of the Effect of Paint Mineral Coating on Energy Saving	Ali Akbar Azemati, Hossein Hosseini	5935007
Inductive Transmission of Electromagnetic Energy – From M. Faraday to XXI Century	Ardeleanu Mircea-Emilian, Răscăcea Bogdan	5831019
Design Research for Building an Automated Decision Support System for Intensive Care Units	Manuel Santos, Álvaro Silva, Pedro Gago	6096003
Feature selection for detecting patients with weaning failures in Intensive Medicine	Sérgio Oliveira, Filipe Portela, Manuel Filipe Santos, José Neves, Álvaro Silva and Fernando Rua	6096007

16:30-17:00: Coffee Break

Tuesday 18th August 2015

Conference Room: A

Time: 17:00-19:00

POES '15: Power & Energy Systems

Chair: Martin Lisý, Klimov, Dmitry

<i>Comparison of Atmospheric Fluid Bed Gasification of Woody and Non-Woody Biomass Fuels</i>	<i>Martin Lisý, Marek Baláš, Michal Špiláček, Zdeněk Skála</i>	72705-112
Boiling on Sprinkled Tube Bundle	Petr Kracík, Michal Špiláček, Marek Baláš, Jiří Pospíšil	72705-124
Modeling of Pollutant Dispersion Released from Line Source in Small Urban Areas	Jiri Pospisil, Michal Spilacek, Martin Lisy	72705-115
Preliminary Theoretical Study about a "Piezoelectric Shingle" for a Piezoelectric Energy Harvesting System in Presence of Rain	Romeo Di Leo, Massimo Viscardi, Gianluca Ferrini, Leonardo Lecce	72705-121
Islanding Detection in Hybrid DG Based IEEE 14 Bus System Using Negative Sequence Component Analysis	Bhupendra Paliwal, C. S. Rajeshwari, Anjali Potnis	72705-118
<i>Chicken Dung - is a Renewable Fuel. The Use of Thermal Pre-Treatment (Torrefaction) to Improve the Characteristics of This Fuel</i>	<i>Rafail Isemin, Oleg Milovanov, Alexander Mikhalev, Dmitry Klimov, Ekaterina Artyukhina, Vladimir Kosov, Vladimir Sinelschikov</i>	72705-109

Tuesday 18th August 2015

Conference Room: B

Time: 17:00-19:00

MCSI '15: Applications of Differential Equations

Chair: Martin Cera, Michal Kovařík

<i>Theoretical Progress on Infinite Graphs and their Average Degree: Applicability to the European Road Transport Network</i>	<i>M. Cera, E. M. Fedriani</i>	<i>6046003</i>
Attainable Velocities by Multi-Charge Gun	Michal Kovařík	5901035
Enhanced MVDR Beamforming for MEMS Microphone Array	Martin Papež, Karel Vlček	6079003
Recognition System Based on DTW and DAS Beamforming	M. Papez, K. Vlcek	6079007
Justification of the Quadrature-Differences Method for Singular Integro-Differential Equations on the Interval	Alexander Fedotov	5859003
A New Features Selection Model: Least Squares Support Vector Machine with Mixture of Kernel	Wei Liwei, Li Wenwu, Xiao Qiang	6021003

Conference Room: C

Time: 17:00-19:00

ICANCM '15: Applied, Numerical and Computational Mathematics

Chair: Buikis Andris, William M. Saade

Wave Energy and Steel Quenching Models, which are Solved Exactly and Approximately	Buikis Margarita, Buikis Andris, Harijs Kalis	72709-112
The Conservative Averaging Method: Applications, Theory and New Hyperbolic Approximation	Buikis Andris, Buikis Margarita	72709-124
Optimal Visible Nearest Neighbor Query Processing	P. D. Mahendhiran, R. Ranjani	72709-127
Robust Method for Estimating Porosity, as a Collector Rock Parameter, Necessary Studying the Efficiency of the Tertiary Migration Process in Abandoned Oil Reservoirs	Cristian Patrascioiu, Dan Jacota, Florea Minescu	72709-118
Hyperbolic Type Approximation for the Solutions of the Hyperbolic Heat Conduction Equation in 3-D Domain	Buikis Andris, Kalis Harijs	72709-136
Special Hyperbolic Type Spline for Mass Transfer Problems in Multi-Layer 3-D Domains	Buikis Andris, Kalis Harijs, Kangro Ilmars	72709-139
<i>M-Band Wavelet Based Pseudo Quantum Watermarking</i>	<i>Tong Liu, Xuan Xu, Xiaodi Wang</i>	<i>72709-142</i>
Optimization in Model Predictive Control Using Evolutionary-Gradient Algorithm	Jan Antos, Marek Kubalcik	72709-115
Aerodynamic Study of Annular Jet by Proper Orthogonal Decomposition	B. Patte-Rouland, A. Danlos, E. Rouland	72709-133
<i>An Alternative Vision to Weber-Fechner's Psychophysics</i>	<i>William M. Saade</i>	<i>72709-109</i>
De-Regulation of Bio-Activated Enzymes and Drug Resistance: Modeling and Numerical Analysis	Mitra Shojania Feizabadi	72709-100
<i>Data Reconstruction Based on Probability Distribution</i>	<i>Dariusz Jacek Jakóbczak</i>	<i>72709-106</i>

Poster

A Multi-Objective Optimization Model for Alloy Addition in BOS Process Based on ESN and Modified MOPSO	Min Han, Yong He, Jun Wang	5700051
Molecular Modeling of Interaction between Ribavirin and Nucleic Acids	L. E. Vijan, C. M. Topală	5861003

20:00 Dinner at the "Tabloid Restaurant", The Palace Hotel

Wednesday 19th August 2015

Conference Room: A

Time: 09:00-11:00

ECCE '15: Chemistry in Biological Sciences

Chair: Robert Sekula, Anca-Irina Galaction

Rheological Behavior of Alginate-Lignosulfonate Blend Solutions	Raluca Petronela Dumitriu, Georgeta Cazacu, Dan Sorin Vasilescu	72710-124
<i>Structure of Lysine Dendrimers. Molecular Dynamic Simulation</i>	<i>Maxim Yu. Ilyash, Denis A. Markelov, Igor M. Neelov</i>	72710-118
<i>Liquid-Phase Aerobic Oxidation of Cumene Catalyzed by Nano-Particulated Titanium Dioxide (Short Communication)</i>	<i>Eldar B. Zeynalov, Sever A. Aliyeva, Yagub M. Nagiyev, Matanat Ya. Magerramova</i>	72710-121
<i>Polymers Processing and Recycling for Electrical Insulation</i>	<i>Robert Sekula</i>	72710-100
Selective Extraction of Acetophenone from the Mixture Obtained by Enzymatic Conversion of Methylbenzylamine	Anca-Irina Galaction, Lenuta Kloetzer, Madalina Postaru, Alexandra Cristina Blaga, Gladiola Andruseac, Dan Cascaval	72710-103

Wednesday 19th August 2015

Conference Room: B

Time: 09:00-11:00

MCSI '15: Optimazition & Data Processing

Chair: M. Poulos, Hai Jin

Synchronization of Small SetData on Stable Period	M. Poulos, V. Stefanidis	5982011
Learning Difficulties Prediction	V. Stefanidis, M. Poulos	5906023
Optimal Iterative Learning Control for Square MIMO Linear Systems	Leila Noueili, Wassila Chagra, Moufida Ksouri	6060007
Integration of GIS Data for Visualization of Virtual Geospatial Environments	Mehdi Mekni	5700078
Applications of Probabilistic Interpolation via Orthogonal Matrices in Data Modeling and Restoration	Dariusz Jacek Jakóbczak	5929011

11:00-11:30: Coffee Break

Wednesday 19th August 2015

Conference Room: A

Time: 11:30-13:30

MCSI '15: Computational Maths & its Applications

Chair: Cristina Serbanescu, Hankyu Lim

Two-Dimensional Finite Elements Thermal Analysis of a Switched Reluctance Motor	Gholam Reza Zandesh, Javad Shokrolahi Moghani, Mina Ghoorchian	5907027
<i>Quasi-Nilpotent Equivalence of Weakly Decomposable Operators</i>	<i>Cristina Serbanescu, Ioan Bacalu</i>	<i>5989023</i>
Independence Tests for Financial Variables	Sergio Ortobelli Lozza, Tommaso Lando	5886003
Rheological Modeling for Shape-Memory Thermoplastic Polymers	Hossein Hosseini, Boris V. Berdyshev	5882019
Proposal Study Desert Forest near Es-Sider Oil Port NW Libya	Fathi Elost	6022003
<i>Virtual Reality Contents Using the Oculus Rift and Kinect</i>	<i>Dongik Lee, Giyeol Baek, Yangwon Lim, Hankyu Lim</i>	<i>5982007</i>
Role of Document Attributes in Information Retrieval	Benjamin Ghansah, Nathaniel Ghansah	6014007

Wednesday 19th August 2015

Conference Room: B

Time: 11:30-13:30

MCSI '15: Resolution & Investigation of Equations with Algorithms

Chair: Hiroyuki Kagami, Roberto Montemanni

A Static Model of a Geyser Induced by Gas Inflow	Hiroyuki Kagami	5700045
<i>Selection of the Baseline Frame for Evaluation of Electrical Impedance Tomography of the Lungs</i>	<i>Karel Roubik, Vladimir Sobota, Marianna Laviola</i>	<i>6011003</i>
<i>Multi-Degree Reduction of Bézier Curves with Differential Constraint</i>	<i>Xuli Han, Jing Yang</i>	<i>5893011</i>
<i>The Design of Permutation Codes via a Specialized Maximum Clique Algorithm</i>	<i>Roberto Montemanni, János Barta, Derek H. Smith</i>	<i>6038007</i>
On Some Stochastic Parabolic Equations Driven by Fractional Brownian Motion	Mahmoud M. El-Borai, Khairia El-Said El-Nadi	5600001
Memory Data Management System for Rendering Applications	Ran Zheng, Qing Liu, Hai Jin	5876003

Poster

Shape Matching Method Based on Spatial Features of Multi-Scaled Contours	Min Han, Yafei Yang, Danchen Zheng, Jun Wang	5700056
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