on

ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI 2016, June 30–July 02, 2016



hosted by

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PROGRAM

Wednesday, June 29, 2016

Wednesday, June 29, Participants' arrival

Thursday, June 30, 2016

June 30, 8:00-8:50, conference desk *Registration of the participants*

June 30, 9:00-9:40, OFFICIAL OPENING

AP9, keynote room

09:00-09:40 Welcome and Opening Addresses

09:00-09:05 Welcome message of Prof. Nicolae Paraschiv, Chair of ECAI 2016, Petroleum-Gas University of Ploiesti

09:05-09:10 Welcome message of Prof. Pascu-Mihai Coloja, Rector of the Petroleum-Gas University of Ploiesti

09:10-09:15 Welcome message of Prof. Nicu Bizon, Chair of ECAI 2016, University of Pitești

09:15-09:20 Welcome message of Assoc. Prof. Dumitru Chirleşan, Rector of the University of Piteşti

09:20-09:25 Welcome message of Prof. Horia-Nicolai (L.) Teodorescu, Corresponding Member of Romanian Academy

09:25-09:30 Welcome message of Prof. Lucian Doru Dascalescu, Past-Chair Electrostatics Processes Committee IEEE IAS

09:30-09:35 Welcome message of Prof. Mircea Eremia, Chair of the IEEE Romanian section

09:35-09:40 Welcome message of Takeshi Yamakawa, Honorary Chair of the ECAI 2016

09:40-09:45 Sponsors' message

June 30, 09:40-13:30, ECAI KEYNOTE LECTURES –I, AP9

Chairs: Nicu Bizon, Nicolae Paraschiv

09:45-10:25, Lucian Doru Dascalescu

Electrostatics of Dispersed Media Research Unit

10:25-11:05, Kazumi Nakamatsu

Intelligent Decision Technology from the Viewpoint of Reasoning-based Intelligent Systems

11:05-11:35, Coffee break; Discussions and Brokerage events

Chairs: Nicu Bizon, Nicolae Paraschiv

11:35-12:15, Petia Koprinkova

A novel approach for multidimensional data clustering and visualization

12:15-14:00, Round Tables, Brokerage events

12:15-12:45, Round Tables 1: Problems regarding interaction between the academia engineering with the economic and business environment

Organized by: Mazare Alin – Gheorghita, Ionescu Laurentiu – Mihai, and S.C. TECHNOVOLT S.R.L.

12:15-13:15, Round Table 2: Postgraduate continuous learning by interlinking training and research platforms for system engineering with the latest technological advances

Organized by Dr. Ing. Grigore Stamatescu, ASTI Automation Participants FESTO Romania, SIEMENS Romania, ABB Romania, SYSCOM18, Mikon System, Rittal Systems Romania, Phoenix Contact Romania

June 30, 15:30-17:00, ECAI Afternoon sessions

June 30, 17:00-17:30 Coffee break

June 30, 18:30-21:00, ECAI Welcome Dinner

June 30, 15:30-17:00, ECAI Afternoon sessions
June 30, 15:30-17:00 Workshop IWSSS 2016_A
June 30, 15:30-17:00 Electrical Engineering session
June 30, 15:30-17:00 Workshop IWTOTC 2016
June 30, 15:30-17:00 Electronic Circuits & Equipment _A
June 30, 15:30-17:00 Software & Computer Applications _A
June 30, 15:30-17:00 Workshop IWTOTC 2016 poster session
June 30, 15:30-17:00 ECAI Poster session 1

June 30, 15:30-17:00, International Workshop on Systems Safety & Security-IWSSS – 2016 session A $\,$

room AP9

Chairs: Grigore Stamatescu, Emil Pricop

15:30-16:15 Invited talk: Prof. Reuven Cohen

Network Attacks on a Smart City Wireless Mesh

16:15-16:30 Zeeshan Afzal, Stefan Lindskog

IDS Rule Management Made Easy

16:30-16:45 Cristian Dragana, Grigore Stamatescu, Andrei Dobrin, Dan Popescu

Evaluation of continuous consensus algorithm in border surveillance missions

16:45-17:00 Emil Pricop, Sanda Florentina Mihalache, Nicolae Paraschiv, Jaouhar Fattahi, Florin Zamfir

Considerations regarding security issues impact on systems availability

June 30, 15:30-17.00, Electrical Engineering session room AP10

Chairs: Ires Iskender, Cornel Ianache

15:30-16:00 Invited talk: Ires Iskender, Sami Arslan

Design Aspects of a 26500-rpm, 2-kW High-Speed Permanent Magnet Synchronous Generator for Turbomachinery Systems

16:00-16:15 Ali Mamizadeh, Ires Iskender

A New Approach in Efficieny Analysis of Induction Motor Without Using Torquemeter and Encoder

16:15-16:30 Langa HM, Twala B

The Implementation of the Unity Displacement Factor Frequency Converter - Tackling Short Circuit and Overvoltage Problems

16:30-16:45 Mustapha Jamma, Mohamed Barara, Mohammed Akherraz, Bogdan-Adrian Enache

Voltage oriented control of three-phase PWM rectifier using space vector modulation and input output feedback linearization theory

16:45-17:00 Naci Genc, Hasan Uzmus, Ires Iskender

Dynamic Behavior of DC-DC Boost Converter Controlled with Cascade PI-ASC

June 30, 15:30-17.00, International Workshop on Trends and Opportunities in Teaching Career - 2016 room A-II-5

Chairs: Adriana Lazar, Zdzislaw Polkowski

15:30-16:00 Invited talk: Zdzislaw Polkowski, Julian Vasilev, Dariusz Zajac, Lidia Florina Arnautu

A content analysis of existing educational portals for teaching data warehouse and business intelligence

16:00-16:15 Adriana Lazăr, Claudiu Langa

Related Review of Theories Developed on Using CLIL in Primary Schools in Romania

16:15-16:30 Adriana Lazar

Suggestions on Introducing CLIL in Primary Schools

16:30-16:45 Claudiu Langa, Floretina Dumitru

Perspective of the Romanian remigrant students on the process of adapting to the Romanian school

16:45-17:00 Georgiana Dumitru

The teachers' perceptions concerning the difficulties met in teaching and types of adopted solutions

June 30, 15:30-17.00, Electronic Circuits & Equipment _A session room B-II-3

Chairs: Dorel Aiordachioaie, Adrian Moise

15:30-16:00 Invited talk: Yasin Kabalci, Ersan Kabalci

A Low Cost Smart Metering System Design for Smart Grid Applications

16:00-16:15 Luiza Grigorescu

The Errors Study of the Second Order Current-Mode RC Oscillators

16:15-16:30 Luiza Grigorescu, Ioana Diaconescu

Theoretical And Experimental Research On The Current-Mode RC Oscillators

16:30-16:45 Anisia Culea-Florescu, Dorel Aiordachioaie

Some Results on Change Detection Based on Advanced Signal Processing Paradigm

16:45-17:00 Ioan Lita, Daniel Alexandru Visan, Ion Bogdan Cioc, Alin

Gheorghita Mazare, Rodica Mihaela Teodorescu

Indoor Environmental Parameters Monitoring for Building Automation Systems

June 30, 15:30-17.00, Software & Computer Applications _A session room B-III-3

Chairs: Horia-Nicolai L. Teodorescu, Mihaela Oprea

15:30-16:00 Invited talk: Horia-Nicolai L. Teodorescu, Speranta Cecilia Bolea

On the Algorithmic Role of Synonyms and Keywords in Analytics for Catastrophic Events

16:00-16:15 Horia-Nicolai L. Teodorescu, Mironela Pirnau

Analysis of requirements for SN monitoring applications in disasters – A case study

16:15-16:30 Alexandru Petrini, Valeriu Manuel Ionescu

Implementing the Huffman Coding Algorithm on Windows 10 IoT Core

16:30-16:45 Florentina Toader

Evolutionary Algorithms for Job Shop Scheduling

16:45-17:00 Petre Anghelescu, Vlad Gabriel Iliescu, Constantin Mara, Mihai Bogdan Gavriloaia

Automatic Thresholding Method for Edge Detection Algorithms

June 30, 15:30-17.00, International Workshop on Trends and Opportunities in Teaching Career – 2016 poster session

room Poster Hall

Chairs: Corina Savulescu, Florin Tecau

Florin Tecau

The Stimulation of the Critical Thinking of the Engineers Students

Florin Tecau

Educational Pyramid

Emanuel Soare

Situation-centred Approaches in Postmodern Curriculum Design

Sofia Loredana Tudor

The role of non-formal and informal education in competences training - transversal competences

Sofia Loredana Tudor

A Teaching Approach of the Digital Competence into the School Curriculum

Savulescu Corina, Polkowski Zdzislaw, Dutta Nitul

Collaborative Data Management for Business - A review of collaborative techniques

Ionut Bulgaru

School Organizational Culture

Ionut Bulgaru

Knowledge of the affective-sympathetic relationships between the members of the educational group

Ciprian Lapusan, Olimpiu Hancu, Ciprian Rad, Liliana Dache, Vistrian Maties

Integrated learning platform based on Lego NXT and Matlab for teaching mechatronics

June 30, 15:30-17.00, Poster session 1 room Poster Hall

Chairs: Horia Andrei, Gabriel Rădulescu

Cristian Andrei Badea, Horia Andrei, Alexandru Gonciariuc and Emanuel Rus

Predictive Methods to Increase Energy Efficieny in Processes of Wastewater Treatment

G. CARUTASU, M. A. BOTEZATU, C. BOTEZATU, M. PIRNAU

Cloud Computing and Windows Azure

Simona-Vasilica OPREA, Adela BÂRA, George CĂRUȚAȘU, Alexandru PÎRJAN

Prosumers' Renewable Small-Size Generation Forecasting Analyses With ARIMA Models

Ioana Diaconescu, Roxana Patrascu, Luiza Grigorescu, Eduard Minciuc

Energy Efficiency Aspects of Urban Waste Recovery

Aurel-Dorian Floarea, Valentin Sgârciu

Smart Refrigerator - A next generation refrigerator connected to the IoT

Claudiu Pirnau, Mihail Titu, Liviu Rosca

The integration of information technologies in the knowledge based organizations

Marius Enulescu

CBTC with AD-HOC networks

Marius Enulescu

Track circuit with SIMO

Gabriel Oprea, Horia Andrei

The optimization of energy consumption for an industrial consumer

Barca Cristian, Barca Claudiu, Cucu Cristian, Gavriloaia Mariuca-Roxana, Vizireanu Radu, Fratu Octavian, Halunga Simona

A Virtual Cloud Computing Provider for Mobile Devices

Beibei Zhu, Xiaoyu Wu, Lei Yang, Yinghua Shen

Automatic detection of books based on Faster R-CNN

Leila Graini, Kaddour Saouchi, Silviu Ionita, Grigore-Adrian Iordachescu

Optical Similaritons in Optical Communication Systems

17:00-17:30 Coffee break, Discussions and Brokerage events

June 30, 18:30-21:00: ECAI Welcome Dinner

Friday, July 01, 2016

July 01, 09:30-11:00, ECAI KEYNOTE LECTURES II, AP9 room

Chairs: Nicu Bizon, Nicolae Paraschiv

09:30-10:10, Silvia Curteanu

Artificial intelligence tools applied for modelling and optimization of chemical engineering processes

10:10-10:50, Erol Kurt

Electromagnetic Optimization of a Permanent Magnet Synchronous Generator

11:00-11:30 Coffee break, Discussions and Brokerage events

July 01, 11:00-14:00 ECAI morning sessions				
July 01, 11:30-14:00 – Communication session				
July 01, 11:30-14:00 Robotics, mechatronics and control session				
July 01, 11:30-14:00 Young Researchers session				
July 01, 11:30-14:00 Electronic Circuits & Equipment _A				
July 01, 11:30-14:00 Workshop IWSSS 2016 session B				
July 01, 11:30-14:00 Workshop IWAE 2016 session				
July 01, 11:30-14:00 Workshop IWAE 2016 poster session				
July 01, 11:30-14:00 ECAI Poster session 2				

July 01, 11:30-13.15, Communication - session room B-III-1

Chairs: Constantin Paleologu, Alexandru Savulescu

11:30-12:00 *Invited talk:* Constantin Paleologu, Jacob Benesty, Cristian Stanciu, Cristian Anghel, Mircea Stenta

Robust Regularization of the Recursive Least-Squares Algorithm

12:00-12:15 Ioan Tache

Optimum Bit-Rate Allocation on Satellite Transponder for best Perceptual Video Quality

12:15-12:30 Nita Stefania Loredana

On Recommendation Systems Applied in Big Data

12:30-13:00 Zdzislaw Polkowski, Corina Savulescu, Nitul Dutta, Myhkailo Shtefanitsa

Mobile Solutions in Small and Medium Enterprises

13:00-13:15 Rodica Mihaela Teodorescu, Ion Bogdan Cioc, Bogdan Andrei Vochin, Adrian Ioan Lita

LabVIEW Application Used for Remote Control of a Mobile Robot with XBee Communication

July 01, 11:30-13.15, Control, robotics and mechatronics section room AP10

Chairs: Cristian Patrascioiu, Sanda Florentina Mihalache

11:30-12:00 Cristian Patrascioiu, Cao Minh Ahn

Characterization and Control of the Distillation Column with Heat Pump

12:00-12:15 Serket Quintanar-Guzman, Somasundar Kannan, Miguel A. Olivares-Mendez, Holger Voos

Lightweight robotic arm actuated by Shape Memory Alloy (SMA) Wires

12:15-12:30 Baiesu Alina-Simona, Carbureanu Madalina

Internal Model Control for Wastewater pH Neutralization Process

12:30-13:00 Sanda Florentina Mihalache, Marian Popescu

Development of ANFIS Models for PM Short-term Prediction. Case Study

13:00-13:15 Popa Cristina, Alexandru Popa

Improving FCC Plant Performance with Model Reference Adaptive Control Based on Neural Network

13:15-13:30 Ion Pana, Florinel Dinu, Gabriela Bucur

Analysis of a filter used in the natural gas gathering system - Recommendation on the measuring of the pressure drop

July 01, 11:30-13.15, Young Researchers session - with technical support of IEEE-IAS-RO Chapter

room AI-II-5

Chairs: Cosmina Rosca, Gabriel Rădulescu

11:30-11:45 Cosmina Mihaela Rosca, Nicolae Paraschiv

Frequency sampling algorithm applied in microwave measurements based on step-size control method

11:45-12:00 Bogdan Gavriloaia, Radu Vizireanu, Octavian Fratu, Cristian Barca, Constantin Mara, Petre Anghelescu

Design of Multi-band Microwave Filter with Asymmetric Polygonal Microstrip Loops

12:00-12:15 Bogdan Constantin Neagu, Gheorghe Grigoras, Florina Scarlatache

Power Losses Estimation in Harmonic Polluted LV Distribution Networks with a Fuzzy Approach

12:15-12:30 Andrei George Florea, Cătălin Buiu

Synchronized dispersion of robotic swarms using XP colonies

12:30-12:45 Ion Bogdan Andrei, Nicu Bizon

Performance evaluation of five PWM modulation strategies applied to spread the power spectrum of the power converters

12 :45-13:00 Bogdan-Adrian Enache, Florin-Marian Bîrleanu, Marin Răduț

Modeling a PV panel using the manufacturer data and a hybrid adaptive method

July 01, 11:30-13.15, Electronic Circuits & Equipment $_B$ session room B-II-3

Chairs: Milan Stork, Marius Olteanu

11:30-12:00 Invited talk: Milan Stork

Fractional-Order Oscillator Control

12:00-12:15 Pavel Karlovsky, Radek Linhart, Jiri Lettl

Sensorless Determination of Induction Motor Drive Speed Using MRAS Method

12:15-12:30 Emre Hasan Dursun, Akif Durdu

Position Control by using PD Type Fuzzy Logic: Experimental Study on Rotary Servo System

12:30-12:45 Siro Boris, Marius Olteanu

A methodology for determining commutation quality indicators when using a PWM power source for an electric drive

12:45-13:00 Gheorghe Serban, Gabriel Vasile Iana, Petre Anghelescu

Fault detection of direct radiator loudspeaker systems by phase characterisation

July 01, 11:30-13:30, International Workshop on Systems Safety & Security-IWSSS – 2016 session B

room AP9

Chairs: Dan Popescu, Nicolae Paraschiv

11:30-11:45 Pavol Sokol, Veronika Kopčová

Lessons learned from correlation of honeypots' data and spatial data

11:45-12:00 Cristina Cică, Lucian Filipoaia

Border surveillance optimization using a multi-objective mathematical model

12:00-12:15 Daniela Tudorică, Nicolae Paraschiv, Cornel Marinescu, Bogdan Tudorică

A Robust Wireless Solution for Leak Detection and Localization in Oil Pipelines

12:15-12:30 Omar Abdulwahabe Mohamad, Rasha Talal Hameed, Nicolae Ṭăpuş

Design and implementation of real time tracking system based on Arduino Intel Galileo

12:30-12:45 Sorin Dobrescu, Oana Chenaru, Nicoleta Matei, Loretta Ichim, Dan Popescu

A Service Oriented System of Reusable Algorithms for Distributed Control of Petroleum Facilities in Onshore Oilfields

12:45-13:00 Otilia Cangea, Carmen-Silvia Oprina, Mihai-Octavian Dima

Implementing Quantum Cryptography Algorithms for Data Security

13:00-13:15 Dominic Eugeniu Moraru, Dorian Octavian Sidea

Design extension condition on PHWR accident scenario

13:15-13:30 Andrada Livia Sumalan, Dan Popescu, Loretta Ichim

Flood Evaluation in Critical Areas by UAV Surveillance

July 01, 11:30-13.15, 3rd International Workshop on Applied Electronics session room B-III-3

Chairs: Iana Vasile Gabriel, Adrian Beteringhe

11:30-12:00 Invited talk: Iana Vasile Gabriel, Ionita Silviu, Ionescu Valeriu

System for interpreting the characteristics of metal objects based on signal acquired from a magnetic loop antenna

12:00-12:15 Ayse Kocalmis Bilhan, Abuzer Caliskan, Sencer Unal

Simulation Of A Photovoltaic Panels By Using Matlab/Simulink

12:15-12:30 Necmi Altin, Ertan Ozturk

Maximum Power Point Tracking Quadratic Boost Converter for Photovoltaic Systems

12:30-12:45 Jose Antonio Ramos-Hernanz, Jose Manuel Lopez-Guede, Ekaitz Zulueta-Guerrero, Fernando Oterino-Echavarri, Nicu Bizon, Andres Larrea

Study of the behavior of the Incremental Conductance algorithm for MPPT

12:45-13:00 Adrian Beteringhe, Ion Sima

A New Chemometric Tool to Predict the Boiling Points of some Cycloalkanes

13:00-13:15 Kanyalag Phodong, Rachada Kongkachandra

Improvement of Word Alignment in Thai-English Statistical Machine Translation by Grammatical Attributes Identification

July 01, 11:30-14.00, 3rd International Workshop on Applied Electronics – 2016 poster session

room Poster Hall

Chairs: Mihai Oproescu, Popa Cristina

Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu

Evaluation of the performance of new Extremum Seeking Control algorithm to locate accurately the peaks on multimodal functions

Ioan Cristian Hoarca, Nicu Bizon

Performance of the Global MPPT Algorithms – a brief overview and case studies

Mihai Catalin Arva

First stage analysis on determining the Signal Quality Coefficient in vibro-acoustic domain - Waveform integrity analysis

Mihai Catalin Arva

Second stage analysis on determining the Signal Quality Coefficient in vibro-acoustic domain - Frequency domain analysis

Radut Marin, Nicu Bizon

Determining the power generated by the Photovoltaic Window blinds tilted at different angles for vertical and horizontal orientations

July 01, 11:30-14.00, Poster session 2 room Poster Hall

Chairs: Ersan Kabalci, Popescu Cristina

Maria Viorela Muntean, Alexandru Donea

A Hybrid Intelligent Agent based Expert System for user location using GPS Data

Mehmet Celalettin Ergene, Akif Durdu, Halil Cetin

Imitation and Learning of Human Hand Gesture Tasks of the 3D Printed Robotic Hand by Using Artificial Neural Networks

Adela-Gabriela Husu, Mihail-Florin Stan, Nicolae Fidel, Cosmin Cobianu, Horia Andrei

Analysis of Economic and Energy Efficiency for the Grid-Connected PV Systems

Cosmin Cobianu, Mihail-Florin Stan, Nicolae Fidel, Adela-Gabriela Husu

Case Study Concerning to the Radiation Levels Emitted by Mobile Phones on the Human Body

Florina Scarlatache, Gheorghe Grigoras and Bogdan Neagu

Decision Making Methodology Based on Fuzzy Logic in Optimal DG Location

Bhagyashri Sonkusare, Atul Kumar Sahai, Gourang Mulay, Rajib

Chattopadhyay, Vinaya Gohokar

Improved performance of Multi-model Ensemble through the bias correction based on ANN technique

Petr Pichlík, Jiří Zděnek

Train Velocity Estimation by Extended Kalman Filter

Yasin Kabalci, Ersan Kabalci

The Low Cost Voltage and Current Measurement Device Design for Power Converters

Vicu Straticiuc, Irina Nicolae, Rodica Strungaru, Mihaela Ungureanu

A preliminary study on the effects of music on human brainwaves

Gabriela Bucur, Adrian Moise, Ion Pana, Dragomir Orhei

Integrating PLCs in Automatic Systems for Dimensional Inspection

Badre Bossoufi, Hala Alami Aroussi, Silviu Ionita, Luminita-Mirela Constantinescu

Speed Control for PMSM Drive System Using Predictive Control

Mirel Stanica, Man Ion, Mihai Opoescu

The analysis of open loop and the working mode stepper motor at different frequencies

July 01, 15:30-17:00 ECAI ECAI Afternoon sessions

July 01, 15:30-17:00 – Bio-medical applications session

July 01, 15:30-17:00 -- Microwaves & EMC session

July 01, 15:30-17:00 -- Software & Computer Applications _B session

July 01, 15:30-17:00 -- Workshop OCSC-2016 session

July 01, 15:30-17:00 -- 5th Workshop WAITS 2016

July 01, 15:30-17:00 -- E - session

July 01, 15:30-17:00 -- ECAI Poster session 3

July 01, 15:30-17.00, Bio-medical applications session room AP9

Chairs: Stefan Bala, Gabriel Rădulescu

15:30-16:00 *Invited talk:* Mengjia Yan, Yurou Duan, Siqi Deng, Xiaoyu Wu, Wenjia Zhu

Facial beauty assessment under unconstrained conditions

16 :00-16:15 Rasha Talal Hameed, Omar Abdulwahabe Mohamad, Nicolae Ṭăpuş

Healthcare Monitoring System for Fetal Electrocardiogram Using Least Mean Square Based Adaptive Noise Canceling Approach

16:15-16:30 Stefan Miruna I. E. Nicolae, R. Strungaru G. M. Ungureanu

Efficient tracking of ERD based on the adaptive identification of the subject's reactive band

16:30-16:45 Rasha Talal Hameed,Omar Abdulwahabe Mohamad, Omar Talal Hamid, Nicolae Țăpuș

Patient Monitoring System Based on e-health Sensors and Web Services

16:45-17:00 Stefan-Radu Bala

Correlation of electroencephalographic potentials in biofeedback techniques with subjective patient's reactions in elaboration of wellness patterns for medical analysis

July 01, 15:30-17.00, Microwaves & EMC session room AP10

Chairs: Dumitru Cazacu, Ilona Piekarz

15:30-15:45 Ilona Piekarz

Measurement of dielectric material using open-ended couple-line section feed by simplified magic T circuit as microwave sensor

15:45-16:00 Dumitru Cazacu, Valeriu Ionescu, Silviu Ionita, Elena Virjoghe

On The Multishell Cylindrical Magnetostatic Shields:Analytical And Numerical Approach

16:00-16:15 Ilona Piekarz

Sensitivity Improved Four-Coupled-Line Section Microwave Sensor for Dielectric Material Detection

16:15-16:30 Jakub Sorocki

Slot-Coupled Directional Coupler for Application in 4x4 Butler Matrix Operating at 24 GHz

16:30-16:45 Jakub Sorocki

3-dB Directional Coupler Realized with the Use of Fully Planar Microstrip Technique

16:45-17:00 Florin Enache, Daniel Deparateanu, Andrei Enache, Florin Popescu

Sparse Array Antenna Design Based on Dolph-Chebyshev and Genetic Algorithms

July 01, 15:30-17.00, Software & Computer Applications _B session room A-II-5

Chairs: Margarita Terziyska, Alina Baiesu

15:30-15:45 Invited talk: Margarita Terziyska, Yancho Todorov, Marius Olteanu

Influence of the input space selective fuzzification in semi fuzzy-neural networks

15:45-16:00 Kayhan Celik, Erol Kurt

A New Image Encryption Algorithm Based on Lorenz System

16:00-16:15 Mihai Bucurica, Radu Dogaru, Ioana Dogaru

Improving computational efficiency for implementing a sound propagation simulation environment using Python and GPU

16:15-16:30 Daniel Deparateanu, Florin Enache, Andrei Enache, Florin Popescu, Ioan Nicolaescu

Sparse Array Antenna Optimization Using Genetic Alghoritms

16:30-16:45 George Suciu, Cristina Butca, Victor Suciu, Ioana Mihaila, Romulus Cheveresan

Search Based Applications for Speech Processing

16:45-17:00 Sorin Soviany, Virginia Sandulescu, Sorin Puscoci

A Multimodal Biometric Identification Method for Mobile Applications Security

July 01, 15:30-17.00, Workshop on Optical Communication Systems Connectivity, OCSC-2016 session room B-II-3

Chairs: Sorin Puscoci, Otilia Cangea

15:30-16:00 *Invited talk:* Viorel Manea, Sorin Pușcoci, Monica Petre, Dan Alexandru Stoichescu

The approach of Wavelength Dense Multiplexing using Free Space Optical systems

16:00-16:15 Niculina Badalan, Paul Svasta, Ciprian Ionescu

Determining the LEDs Junction Temperature as a Function of Forward Voltage in Given Operating Conditions

16:15-16:30 Daniel Alexandru Visan, Mariana Jurian, Ion Bogdan Cioc, Laurentiu Mihai Ionescu, Adrian Ioan Lita

Delta Encoder for Fiber Optic Based Data Transmission of Signals from Sensors

16:30-16:45 Dan Tudor Vuza, Marian Vladescu

The approach of Wavelength Dense Multiplexing using Free Space Optical systems

July 01, 15:30-17.00, 5th Workshop on Automotive and Intelligent Transport Systems – WAITS 2016 $\,$

room B-III-1

Chairs: Emil Pricop, Valentin Alexandru Stan

15:30-16:00 *Invited talk:* Valentin Alexandru Stan, Radu Serban Timnea, Razvan Andrei Gheorghiu

High reliable radio data infrastructure for public automation applications - LoRa Networks

16:00-16:15 Mihai Dima, Iulian Adrian Chihaia, Maria Claudia Surugiu

Communications centralized control system aimed at rail traffic

16:15-16:30 Razvan Andrei Gheorghiu, Radu Serban Timnea, Valentin Stan, Dorin Laurentiu Buretea

Simulation of traffic management systems using Arduino boards

16:30-16:45 Somasundar Kannan, Serket Quintanar-Guzmán, Jan Dentler, Miguel A. Olivares-Mendez, Holger Voos

Control of Aerial Manipulation Vehicle in Operational Space

16 :45-17:00 Razvan Andrei Gheorghiu, Valentin Alexandru Stan, Radu Serban Timnea

Personal monitor and automatic location transmission in case of traffic events

July 01, 15:30-17.00, E – session ECAI-2016 room B-II-3

Chairs: Florin Zamfir, Mihai Oproescu

Songbin Ding, Ruichen Ge, Qianqian Gu, Xiaoli Wang

The Study Of Wide-body Aircraft Family Using NSGAII

Shahad Fais Thabet, Ahmed Saadoon Ezzulddin, Omar Talal Hamid

Minimization and Optimization the Performance of Dual-Band BPF Using E-Shape Microstrip Structure

Wen Zhang, Heng Wang, Kaijun Ren, Junqiang Song

Chinese Sentence Based Lexical Similarity Measure for Artificial Intelligence Chatbot

Hussain Makasarwala, Prasun Hazari

Using Genetic Algorithm for Load Balancing Issue in Cloud

Valentin Pupezescu, Radu Radescu

The Influence Of Data Replication In The Knowledge Discovery In Distributed Databases Process

Radu Radescu, Valentin Pupezescu

Ball Automatic Detection and Tracking in Long Shot Views

Pornrat Jatunarapit, Krerk Piromsopa, Chris Charoeanlap

Development of Thai Text-Mining Model for Classifying ICD-10 TM

Naratich Na-Lampang, Wiwat Vatanawood

Development of an Ontology-Based Configuration Management System

Marouane El Azzaoui, Hassane Mahmoudi, Chafik Ed-dahmani

Backstepping Control of the Doubly Fed Induction Generator using Xilinx System Generator for Implementation on FPGA

Marouane El Azzaoui, Hassane Mahmoudi, Badre Bossoufi

Comparative Study of the Sliding Mode and Backstepping control in Power Control of a Doubly Fed Induction Generator

Marouane El Azzaoui, Hassane Mahmoudi, Chafik Ed-dahmani

Emulation of Wind Conversion Chain Equipped with a Doubly Fed Induction Generator

Noppon Prakannoppakun, Sukree Sinthupinyo

Skill Rating Method in Multiplayer Online Battle Arena

Mahdis Kia

Ball Automatic Detection and Tracking in Long Shot Views

July 01, 15:30-17.00, Poster session 3 room Poster Hall

Chairs: Marian Popescu, Gabriela Bucur

Omar Abdulwahabe Mohamad, Rasha Talal Hameed, Nicolae Tăpuș

Improved Performance of Energy Consumption In Wireless Sensor Networks Based on ZigBee Transceiver Protocol

Jakub Sorocki

Low-Loss UWB Bandpass Filters Using Composite Right/Left-Handed Unit Cells

Bogdan Doicin, Marian Popescu, Cristian Patrascioiu

PID Controller Optimal Tuning

Ilona Piekarz

Microstrip UWB Vivaldi Type Antenna for Operation in C and X Bands

Alexandru Ene, Cosmin Stirbu

A Java application for the failure rate prediction using feed forward neural networks

Altan Gencer

Modelling and analysis of operation PMSG based WECS under different load conditions

Alexandru Ene, Andrei Ene

A foreign language vocabulary learning software application

Silviu Teodoru

System Solution for Gas Consumption Monitoring

Ioana Roxana Dragomir, Marilena Lazar

Statistical assessment - as a part of security assessment applied to a block cipher

Carmen-Silvia Oprina, Mihai-Octavian Dima, Otilia Cangea

Neural Networks for Recognizing Modulations of RF Carriers

Niculina Badalan, Constantin Ropoteanu, Cristina Marghescu

Investigation of Heat Dissipation Limits for High Power LEDs

Ioana Roxana Dragomir, Marilena Lazar

Generating and testing the components of a block cipher

Maria Viorela Muntean, Raul Boldea

Intelligent Agents based Improved Map-Reduce Method for Multiple Databases

Robert Alexandru Dobre, Cristian Negrescu

Automatic Music Transcription Software Based on Constant Q Transform

Liviu Serbanescu, Madalina Mihailescu

Software Architecture For Inventory Management Of Stock Parts Based On Informations Retrievel

Mihaescu Mihai

Design and implementation of a multiport power converter 2-inputs & 1-output

17:00-17:30 Coffee break, Discussions and Brokerage events

ECAI CLOSING CEREMONY

July 01, 17:30-18:00, ECAI Closing Ceremony,

AP9

Closing speeches

17:30-17:35 Emil Pricop, Program Chair of ECAI 2016

17:35-17:40 Mihai Oproescu, Program Chair of ECAI 2016

17:40-18:00 Time of closing speeches for the ECAI participants

July 01, 18:00-20:00: ECAI Gala Dinner

Saturday, July 02, 2016

9:00-17:00, ECAI trip - Tour of the Prahova Valley

Departure at 9.00, July 02, from UPG Parking lot Arrival will be at about 17.00, July 02.

Participants' departure

Sunday, July 03 2016

Participants' departure

End of ECAI conference actions

Visiting suggestions & sightseeing in Ploiesti city:

The Clock Museum - The Clock Museum in Ploieşti is unique in the museum network of Romania and is one of the few of its kind in Europe. Clock Museum has a collection of historic timepieces owned by several famous Romanians, including King Carol I, and an 18th-century rococo Austrian clock that belonged to Wallachian prince Alexandru Ioan Cuza.

Address: Ploiesti, Str. Nicolae Simache, 1

The Oil Museum - unique in Romania, Ploiesti. This museum ighlights the important role of oil in the economic development of both the city and the country, especially in the 19th century when Romania was a petroleum pioneer. Address: Ploiesti, Str. Dr. Bagdasar, 8

The **Museum of History and Archaeology** he Museum of History and Archaeology is hosted by an imposing edifice, architectural and historical monument, former secondary boys school St. Peter and Paul, whose foundation was poured on May 31, 1865. The permanent exhibition includes he permanent exhibition were opened: the coins collection, the medals collection, the room dedicated to the writer I.A. Bassarabescu and the Lapidarium. In 1997 the museum was enriched with the hall "Mihai Viteazul si Ploiestii"- on the occasion of the anniversary of 400 years of documentary attestation of Ploiesti, the "Sport in Prahova county along the centuries" hall and a hall with archeological vestiges from Tragsor Reservation. Address: Ploiesti, Str. Toma Caragiu, 10

The Art Museum Ploiesti has its origins in the Picture Gallery of Ploiesti City, set up in November 1931 as a result of the consistent efforts of an influential group of intellectuals in Ploiesti. The museum houses paintings by N. Tonitza, N. Grigorescu, S. Luchian, T. Pallady famous Romanian painters of the nineteenth century and the twentieth century and is structured on different collections: paintings, graphics, sculpture and decorative art.

Address: Independentei Blvd., 1, Ploiești

The I.L. Caragiale Museum present the image of the largest Romanian playwright, whose works have been translated and interpreted in countries like France, Japan, Spain, Italy and Belgium and is located in Ploiesti.

Address: Kutuzov Street, 1, Ploiesti

The Memorial Museum Nichita Stanescu presents "Nichita phenomenon" in the space where he was born, grew up and was educated as a man and as a poet. The exhibit include the writer opera published during his lifetime, awards that have recognized his value as a national poet (Prize for the youngest poet – Struga 1965, Grad Prix "Golden Wreath" - Struga 1982), uniquee manuscripts and documents, photographs and various personal items that complete Nichita image as a man and poet. Address: Ploiești, Str. Nichita Stănescu, nr. 1

ECAI 2016, June 30 - July 01, 2016, Timetable and Program

Date	ECAI 2016, June 30 – July 01, 2016, Timetable and Program						
	Time	Session or activity	Location				
June 29	20:30-22:00	Participants' arrival					
	8:00-8:50	Authors Registration	"CD"				
	9:00-9:40	ECAI Opening Ceremony	AP9-room				
	9:40-11:00	ECAI KEYNOTE LECTURES I.1	AP9-room				
	11:00-11:30	Coffee break & Brokerage events	71 7-100m				
	11:30-11:50	ECAI KEYNOTE LECTURES I.2	AP9-room				
		RT1: Problems regarding interaction					
	12:15-12.45	between the academia engineering with	AP9-room				
		the economic and business environment					
S	12:15-13:15	RT2: Postgraduate continuous learning					
() ()		by interlinking training and research	Senate Council Hall				
(1)		platforms for system engineering with					
	12:15-14.00	the latest technological advances Brokerage events	Poster Hall				
Unne 3	14:00-15.30	Lunch	"R" – ECAI restaurant				
		ECAI Aftern					
		Workshop IWSSS 2016_A	AP9-room AP10-room				
		Electrical Engineering session Workshop IWTOTC 2016	A-II-5-room				
	15:30-17:00	Electronic Circuits & Equipment_A	B-II-3-room				
		Software & Computer Applications_A	B-III-3-room				
		Workshop IWTOTC 2016 poster session	Poster Hall				
		ECAI Poster session 1	Poster Hall				
	17:00-17:30	Coffee break & Brokerage events					
	18:30-21:00	ECAI Welcome dinner	UPG Student House				
	9:00-9:30	Authors Registration	"CD"				
	9:30-11:00	ECAI KEYNOTE LECTURES II	AP9 - room				
	11:00-11:30	Coffee Break & Brokerage events	Al 9 - 100III				
	11.00 11.00	ECAI morning sessions					
		Communication session	B-III-1-room				
		Control, robotics and mechatronics					
		session	AP10-room				
	11:30-13:15	Young Researchers session	A-II-5-room				
			71 H 5 100H				
		Electronic Circuits & Equipment_B	B-II-3-room				
		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B	B-II-3-room AP9-room				
		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016	B-II-3-room AP9-room B-III-3-room				
01	13:00-14:00	Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2	B-II-3-room AP9-room B-III-3-room Poster Hall				
7 01		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall				
ly 01	13:00-14:00 14:00-15:30	Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2	B-II-3-room AP9-room B-III-3-room Poster Hall				
ıly 01		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Aftern	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall "R" – ECAI restaurant				
ruly 01		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Aftern Bio-medical applications session	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall "R" – ECAI restaurant noon sessions AP9-room				
July 01		Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Aftern Bio-medical applications session Microwaves & EMC session	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall "R" – ECAI restaurant toon sessions AP9-room AP10-room				
July 01		Electronic Circuits & Equipment_B Workshop IWSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Afteri Bio-medical applications session Microwaves & EMC session Software, and computer applications_B	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall "R" – ECAI restaurant soon sessions AP9-room AP10-room A-II-5-room				
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July 01	14:00-15:30	Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Aftern Bio-medical applications session Microwaves & EMC session Software, and computer applications_B Workshop OCSC 2016 Workshop WAITS 2016	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall "R" – ECAI restaurant toon sessions AP9-room A-II-5-room B-II-3-room B-III-1-room				
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July 01	14:00-15:30 15:30-17:00 17:00-17:30 17:30-18:00	Electronic Circuits & Equipment_B Workshop IWSSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI After Bio-medical applications session Microwaves & EMC session Software, and computer applications_B Workshop OCSC 2016 Workshop WAITS 2016 ECAI E-session ECAI Poster session 3 Coffee Break& Brokerage events ECAI Closing Ceremony	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall Poster Hall "R" – ECAI restaurant toon sessions AP9-room A-II-5-room B-II-3-room B-III-1-room B-III-3-room Poster Hall AP9				
Ju	14:00-15:30 15:30-17:00 17:00-17:30 17:30-18:00 18:00-20:00 20:00-23:00	Electronic Circuits & Equipment_B Workshop IWSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Afterr Bio-medical applications session Microwaves & EMC session Software, and computer applications_B Workshop OCSC 2016 Workshop WAITS 2016 ECAI E-session ECAI Poster session 3 Coffee Break& Brokerage events ECAI Closing Ceremony ECAI Gala Dinner	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall Poster Hall "R" – ECAI restaurant toon sessions AP9-room A-II-5-room B-II-3-room B-III-1-room B-III-3-room Poster Hall AP9				
July 02 July 03	14:00-15:30 15:30-17:00 17:00-17:30 17:30-18:00 18:00-20:00	Electronic Circuits & Equipment_B Workshop IWSS 2016_B Workshop IWAE 2016 ECAI Poster session 2 Workshop IWAE 2016 poster session Lunch ECAI Afteri Bio-medical applications session Microwaves & EMC session Software, and computer applications_B Workshop OCSC 2016 Workshop WAITS 2016 ECAI E-session ECAI Poster session 3 Coffee Break& Brokerage events ECAI Closing Ceremony ECAI Gala Dinner Free time (shopping & sightseeing)	B-II-3-room AP9-room B-III-3-room Poster Hall Poster Hall Poster Hall "R" – ECAI restaurant soon sessions AP9-room AP10-room A-II-5-room B-III-3-room B-III-1-room B-III-3-room Poster Hall AP9 "R" – ECAI restaurant				

Workshop on Automotive and Intelligent Transport Systems – WAITS 2016, Workshop on Systems Safety & Security - IWSSS 2016, Workshop on Applied Electronics – IWAE 2016, Workshop on Trends and Opportunities in Teaching Career - IWTOTC-2016, "R" – ECAI restaurant

8th INTERNATIONAL CONFERENCE

ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE

ECAI 2016, June 30 – July 02, 2016

Financial & technical sponsorship



















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The papers will be published in the ECAI proceedings and will be indexed in IEEE Xplore® and submitted to ISI Web of Knowledge databases.

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No. 3 – IWAE & WAITS Workshops

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