

7th INTERNATIONAL CONFERENCE
on
ELECTRONICS, COMPUTERS
and ARTIFICIAL INTELLIGENCE
ECAI 2015, June 25– June 27, 2015



PROGRAM

hosted by

UNIVERSITY OF S-E EUROPE 'Lumina', BUCHAREST

- Faculty of Engineering: Department of Information Technology and Communication

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UNIVERSITY OF PITESTI:

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- Faculty of Engineering: Department of Information Technology and Communication

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Technical sponsorship of the

IEEE ROMANIA SECTION

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ECAI 2015, June 25– June 27, 2015

Technical sponsorship

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PROGRAM

Wednesday, June 24, 2015

Wednesday, June 24, 18:00-20:00, "Welcome room"

ECAI Welcome cocktail

Thursday, June 25, 2015

June 25, 8:00-8:50, conference desk

Registration of the participants

June 25, 9:00-9:40, OFFICIAL OPENING

Aula Magna, keynote room

09:00-09:40 *Welcome and Opening Addresses*

09:00-09:05 Welcome message of Ion Sima, Chair of ECAI 2015

09:05-09:10 Welcome message of Huseyin Padem, President of the Univ. of S-E Europe 'Lumina'

09:10-09:15 Welcome message of Nicu Bizon, Chair of ECAI 2015

09:15-09:20 Welcome message of University of Pitesti

09:20-09:25 Welcome message of Horia-Nicolai (L.) Teodorescu, c.m. - Romanian Academy

09:25-09:30 Welcome message of Franco Maloberti, President Elect 2016-17 of the IEEE CASS

09:30-09:35 Welcome message of Mircea Eremia, chair of the IEEE Romanian section

09:35-09:40 Welcome message of Takeshi Yamakawa, Honorary Chair of the ECAI 2015

09:40-09:45 Sponsors' message

**June 25, 09:40-13:30, ECAI KEYNOTE LECTURES –I,
keynote room**

Chairs: ALEXANDRU SERBANESCU, IOAN NICOLAESCU

09:45-10:25, FRANCO MALOBERTI,
HIGH-RESOLUTION AND HIGH-SPEED DATA CONVERTERS:
DESIGN AND IMPLEMENTATIONS

10:25-11:05, HORIA-NICOLAI (L.) TEODORESCU
THE DYNAMICS OF SOCIAL NETWORKS' RESPONSES TO EVENTS

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

Chairs: HORIA-NICOLAI (L.) TEODORESCU, REMUS PUSCA

11:35-12:15, ALEXANDRU SERBANESCU
BETWEEN TWO ENGINEERING AGES: OF INFORMATION AND COMPLEX
SYSTEMS, PROFESIONAL RESEARCH IS BASED ON A TEAM WORK!

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

12:15-12:45, Round Tables 1: room E310

Organized by "CAELYNX Europe": CRISTIAN CASTRAVETE, DUMITRU
CAZACU
ABAQUS MULTIPHYSICS - DASSAULT SYSTÈMES

12:15-12:45, Round Tables 3: room E308

Organizers: ALEXANDRU BORCEA, IOAN LITA
RESEARCH & TECHNOLOGICAL TRANSFER & BUSINESS
The presentations will be announced

June 25, 15:30-17:00, ECAI Afternoon sessions

June 25, 17:00-17:30 Coffee break

June 25, 17:30-19:00, Concert of Classic Music

June 25, 15:30-18:00, ECAI Afternoon sessions

June 25, 15:30-17:00, ECAI sessions

June 25, 15:30-17:00, ECAI Poster and E-sessions

June 25, 15:30-17:00, invited ECAI workshops

**June 25, 15:30-17.00, 4th Workshop on Automotive and Intelligent Transport Systems – WAITS 2015
room E310**

Chairs: STAN VALENTIN ALEXANDRU, TIMNEA RADU SERBAN

R. V. Alexandrescu, Maria Claudia Surugiu, I. Petrescu

STUDY ON THE IMPLEMENTATION OF PROTOCOLS FOR PROVIDING SECURITY IN AVERAGE VANET INTERVEHICULARY NETWORK COMMUNICATION SYSTEMS

Stan Valentin Alexandru, Gheorghiu Razvan Andrei

INTELLIGENT SELF-CONFIGURABLE RADIO NETWORKS

Gheorghiu Razvan Andrei, Stan Valentin Alexandru, Timnea Radu Serban

A METHOD TO CALCULATE THE BENEFITS OF URBAN TRAFFIC MANAGEMENT SYSTEM IMPLEMENTATION

Gheorghiu Razvan Andrei, Timnea Radu Serban

ROAD TRAFFIC INCIDENT DETECTION USING NOISE LEVEL DETECTORS

**June 25, 15:30-17.00, Bio-medical & Bio-materials applications
room VIP**

Chairs: BETERINGHE ADRIAN, SERBANESCU LIVIU

Serbanescu Liviu, Iosif Doru

BIOMETRIC DATA SOFTWARE REPRESENTATION IN DISTRIBUTED COMPUTING ARCHITECTURES

Serbanescu Liviu, Sima Ion

A SOFTWARE ARCHITECTURE FOR THE CONTROL OF BIOMATERIALS MAINTENANCE

Beteringhe Adrian, Flavia Corina Mitroi Symeonidis

MOLECULAR DOCKING TECHNIQUE FOR SELECTION OF SOME NAPROXEN DERIVATIVES AS INHIBITORS OF CYCLOOXYGENASE 2 (COX-2)

Beteringhe Adrian, Sima Ion

CRYPTOGRAPHIC CHEMISTRY

Marius - Corneliu Rosu

METHODS FOR DENOISING THE ECG SIGNAL IN WEARABLE SYSTEMS

June 25, 15:30-17.00, 1st Workshop on Robotics, Mechatronics and Control – WRMC 2015, room E308

Chairs: LUCIAN ȘTEFĂNIȚĂ GRIGORE, TICUSOR CIOBOTARU

Amado Ștefan, Daniel Constantin, Lucian Ștefăniță Grigore

ASPECTS OF KINEMATICS AND DYNAMICS FOR PAYLOAD UAVS

Amado Ștefan, Daniel Constantin, Lucian Ștefăniță Grigore

ASPECTS OF KINEMATICS AND DYNAMICS OF A GRIPPING MECHANISM

Alexandru Cioaca

ADAPTIVE NUMERICAL CONTROL FOR DYNAMIC DATA-DRIVEN APPLICATIONS

Ciprian Lapusan, Calin Rusu, Leon Brai, Dan Mandru

DEVELOPMENT OF A MULTIFUNCTIONAL ROBOTIC ARM FOR IN-PIPE ROBOTS

Ciprian Lapusan, Ciprian-Radu Rad, Sorin Besoiu, Alin Plesa

DESIGN OF A HUMANOID ROBOT HEAD FOR STUDYING HUMAN-ROBOT INTERACTION

June 25, 15:30-17.00, 2nd International Workshop on Applied Electronics - IWAE 2015 room E335

Chairs: MIHAI OPROESCU, GABRIEL IANA

Mircea Raceanu, Mariana Iliescu, Mihai Culcer, Mihai Varlam, Nicu Bizon

AN EFFICIENCY ANALYSIS ON THE PEMFC USING DIFFERENT FUELING MODES

Bogdan-Adrian Enache, Magdalena Emilia Alexandru, Luminita-Mirela Constantinescu

EXTENDING THE BATTERY MODEL FROM A SINGLE CELL TO A BATTERY PACK WITH BMS

Iana Vasile Gabriel, Petre Anghelescu

VIBRATION MONITORING SYSTEM FOR HUMAN ACTIVITY DETECTION

Petre Anghelescu, Gabriel Vasile Iana, Ionut Tramandan

HUMAN FOOTSTEP DETECTION USING SEISMIC SENSORS

Daniel Alexandru Visan, Ioan Lita, Ion Bogdan Cioc, Rodica Mihaela Teodorescu

A NEW APPROACH FOR AERODYNAMIC LEVITATION BASED POSITION CONTROL USING DIGITAL IMAGE PROCESSING AND DATA ACQUISITION

I.B. Cioc, M. Jurian, I. Lita, R.M. Teodorescu

A METHOD FOR INCREASING SECURITY IN ELECTRONIC COMMUNICATION SERVICES BASED ON TEXT MESSAGES COMMUNICATION

Malgorzata Nycz, Mkisi Jovita Martin, Zdzislaw Polkowski

THE CYBER SECURITY IN SMES IN POLAND AND TANZANIA

**June 25, 15:30-17.00, 2nd International Workshop on Finite Elements in Electrical Engineering – IWFEED 2015
room E321**

Chairs: CAZACU DUMITRU, REMUS PUSCA

Vîrjoghe Elena Otilia, Enescu Diana, Coandă George Henri, Husu Adela Gabriela, Stan Mihail Florin, Cobianu Cosmin, Nedelcu Otilia, Fidel Nicolae

NUMERICAL DETERMINATION OF MAGNETIC FIELD AROUND A HIGH VOLTAGE ELECTRICAL OVERHEAD LINE

Florin-Doru Iosif, Marius Costea

THE ELECTROMAGNETIC COMPATIBILITY PRINCIPALS FOR THE ASSESSMENT OF THE SOLUTIONS FOR EQUIPMENT PROTECTION

Nicolae Diga, Constantin Ghita, Constantin Stoica, Silvia-Maria Diga

PARTICULAR ASPECTS OF THE COGGING TORQUE REDUCTION FOR PERMANENT MAGNET SYNCHRONOUS MOTORS USING SPECIALIZED SOFTWARE

Viorel Ionescu

FINITE ELEMENT METHOD DESIGN AND ANALYSIS OF A MEMS COMB DRIVE

Viorel Ionescu

A STUDY OF THE INFLUENCE OF GAS CHANNEL PARAMETERS ON HT-PEM FUEL CELL PERFORMANCE USING FEM ANALYSIS

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

A VARIANT OF A SYNCHRONOUS MOTOR WITH TWO STATORS AND HIGH-ENERGY PERMANENT MAGNETS DISPOSED ON THE BOTH ROTOR PERIPHERIES

**June 25, 15:30-17.00, Software & Computer Applications - A,
room E210**

Chairs: BINER MUCAHIT, CRISTINA MADALINA NOICA

Biner Mucahit

CLOUD COMPUTING AND MANAGEMENT PROCESSES

Wei Li, Dongxia Ge, Lei Wei

AN INTELLIGENT REASONING MACHINE FOR THE HOME-BASED CARE

Popescu Florin

WEBLOG-TO-SPEECH APPLICATION FOR VISSUALY IMPAIRED PERSONS

Hoarcă Ioan Cristian, Marian Raducu

PERFORMANCE COMPARISON OF THREE MPPT ALGORITHMS: AESC, MESC AND P&O

Giorgian Neculoiu, Valentin Dache, Grigore Stamatescu, Valentin Sgarciu

BUILDINGS MODELING IN ORDER TO IMPLEMENT OPTIMAL TEMPERATURE CONTROL

**June 25, 15:30-17.00, 1st Workshop on Smart Grids and Power
Line Communication – WSGPLC 2015
room E309**

Chairs: ERSAN KABALCI, NICU BIZON

Abubakar Muhammad Ashir, Gaddafi Sani Shehu

ADAPTIVE CLUSTERING ALGORITHM FOR OPTICAL CHARACTER RECOGNITION

Abubakar M. Ashir, Essam Abo-Serie

LEAST SQUARES MULTI-LEVEL APPROACH FOR CENTROID DETECTION IN
ACTIVE TRIANGULATION

Altan Gencer

A COMPARATIVE SPEED/POSITION CONTROL TECHNIQUE BASED FUZZY LOGIC
CONTROL FOR TRAVELLING WAVE ULTRASONIC MOTOR

Ersan Kabalci, Ayberk Calpbinici, Yasin Kabalci

A SINGLE-AXIS SOLAR TRACKING SYSTEM AND MONITORING SOFTWARE

Ersan Kabalci, Alper Gorgun, Yasin Kabalci, Goksel Gokkus

A MODELLING CASE STUDY OF AN ISLAND MODE SOLAR POWER PLANT

Ersan Kabalci, Goksel Gokkus, Alper Gorgun

DESIGN AND IMPLEMENTATION OF A PI-MPPT BASED BUCK-BOOST CONVERTER

**June 25, 17:30-19:00,
Concert of Classic Music
Aula Magna**

**June 25, 19:00-21:00:
ECAI Welcome Dinner**

Friday, June 26, 2015

June 26, 09:30-11:00, ECAI KEYNOTE LECTURES II,

Aula Magna

Chairs: FRANCO MALOBERTI, HORIA ANDREI

09:30-10:10, REMUS PUSCA
ADVANCES IN DIAGNOSIS OF ELECTRICAL MACHINES THROUGH
EXTERNAL MAGNETIC FIELD

10:10-10:50, ERSAN KABALCI
MICROGRIDS

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

June 26, 11:00-14:00 ECAI morning sessions

June 26, 11:30-14:00, ECAI sessions

June 26, 11:30-14:00, invited ECAI workshops

June 26, 13:00-14:00, ECAI poster session,

**June 26, 11:30-14:00, Electronic Circuits & Equipment - A,
room E335**

Chairs: DOREL AIORDACHIOAIE, HAI-PENG REN

Dorel Aiordachioaie

ON THE SPATIAL AND MULTI-FREQUENCY AIRBORNE ULTRASONIC IMAGE FUSION

Dorel Aiordachioaie

ON THE GENERATION OF AIRBORNE MULTI-FREQUENCY ULTRASONIC IMAGES WITH BIOMIMETIC SONAR HEAD

Hai-Peng Ren, Xin Guo, Ya-Chun Zi, Jie Li

DOUBLE LOOP CONTROL OF BOOST CONVERTER BASED CURRENT SWITCHING CONTROLLER AND VOLTAGE COMPENSATOR

Aleodor Daniel Ioan, Mihael Cristian Ignat

FPGA AUTONOMOUS LOGIC ANALYZER USING INNOVATIVE BER CELLS OPTIMIZATION

**June 26, 11:30-14.00, Software & Computer Applications - B
room E309**

Chairs: CĂTĂLIN BUIU, VALERIU MANUEL IONESCU

Alexandru Ene, Cosmin Ştirbu

A JAVA SIMULATION SOFTWARE FOR THE STUDY OF THE EFFECTS OF THE SHORT-CIRCUIT FAULTS IN A FEED FORWARD NEURAL NETWORK

Enescu Florentina Magda, Liță Adrian Ioan

MULTIMEDIA DATA MANAGEMENT BY OBJECT – ORIENTED SEMANTIC TOOL

Valeriu Manuel Ionescu

LOAD BALANCING TECHNIQUES USED IN CLOUD NETWORKING AND THEIR APPLICABILITY IN LOCAL NETWORKING

Maniu Rares

ADAPTIVE MUTATION RATIO IN GENETIC ALGORITHMS FOR SHORTEST PATH ROUTING PROBLEM

Victor Stefan Roman, Cătălin Buiu

A SELF-ORGANIZING MAP-BASED APPROACH TO AUTOMATIC METEOR DETECTION IN RADIO SPECTROGRAMS

Sorin Soviany, Sorin Puşcoci

A HIERARCHICAL DECISION SYSTEM FOR HUMAN BEHAVIORAL RECOGNITION

**June 26, 11:30-14:00 , special ECAI session - A,
Young Researchers session
organized with technical support of IEEE-IAS-RO Chapter
room E308**

Chairs: ENESCU FLORENTINA MAGDA, ADRIAN BETERINGHE

Raluca Maria Aileni

MOBILE APPLICATION FOR TRACKING DATA FROM HUMIDITY AND TEMPERATURE WEARABLE SENSORS

Raluca Maria Aileni, Dinca Laurentiu

ELECTROCONDUCTIVE MATERIALS WITH HIGH POTENTIAL FOR WEARABLE ELECTRONIC DEVICES INTEGRATION

Mihai Bucurica, Radu Dogaru

A COMPARISON BETWEEN EXTREME LEARNING MACHINE AND FAST SUPPORT VECTOR CLASSIFIER

Mihai Bucurica, Radu Dogaru

SHAPE OBJECT CLASSIFICATION USING ECHOES INSIDE A VIRTUAL ENVIRONMENT APPLICATION

George Suciu, Alexandru Vulpe, Stefan Ciprian Arseni, Alexandru Stancu, Cristina Butca, Victor Suciu

MONITORING A CLOUD-BASED SPEECH PROCESSING SYSTEM

Miltiade Cărlan, Marius-Aurel Costea, Florin-Doru Iosif

ASSESSMENT, PROBABILITY AND ENTROPY; A COMPLEX ANALYSIS OF THE FUNCTIONALITY OF A TECHNICAL SYSTEM

**June 26, 11:30-14.00, 1st Workshop on Wireless Systems for Defense
– WWSD 2015
room E321**

Chairs: IOAN NICOLAESCU, LIVIU COSEREANU

Leontin Tuță, Ioan Nicolaescu, Mădălina Moni, Marian Gabriel Banciu

TIME-FREQUENCY DOMAIN RADAR CROSS SECTION EVALUATION OF AN IAR 99 SCALED MODEL AIRCRAFT

Roxana Mădălina Lexuțan

COMPARATIVE STUDY REGARDING CHARACTERISTIC FEATURES OF THE HUMAN VOICE

George Cașu, Florin Georgescu, Mircea Nicolaescu, Alexandra Mocanu

A COMPARATIVE PERFORMANCE ANALYSIS OF MIMO-OFDM SYSTEM OVER DIFFERENT FADING CHANNELS

Marius Gabriel Țurcan

STUDIES OF RECTANGULAR DIELECTRIC RESONATOR ANTENNAS WITH A SLOT FEED FOR ISM BAND APPLICATIONS

Alexandru-Cosmin Grivei

TOUCH BASED BIOMETRIC AUTHENTICATION FOR ANDROID DEVICES

Cristian-Gabriel Apostol, Ciprian Răuciu

IMPROVING LTE EPS-AKA USING THE SECURITY REQUEST VECTOR

**June 26, 11:30-14.00, Communication
room E210**

Chairs: ION SIMA, MARIAN RADUCU

Ioan Tache

THE INFLUENCE OF THE SATELLITE TRANSPONDER BROADCASTING PLAN ON VIDEO QUALITY

Cristian Barca, Dan Claudiu Barca, Constantin Mara, Marian Raducu, Bogdan Gavrioloaia, Radu Vizireanu, Razvan Craciunescu, Simona Halunga

PRIVACY PROFILING IMPACT OF ANDROID MOBILE APPLICATIONS

Cristian Barca, Dan Claudiu Barca, Constantin Mara, Petre Anghelescu, Bogdan Gavrioloaia, Radu Vizireanu, Razvan Craciunescu, Octavian Fratu

IMPROVING STORAGE CAPACITY BY DISTRIBUTED EXACT DEDUPLICATION SYSTEMS

Ioan Plotog, Gaudentiu Varzaru, Bogdan Mihailescu, Viorel Popescu, Beatrice Iacomi, Roxana Madjar, Cristian Iacomi, Catalin Sfetcu

SMALL FARM COMPLEX IRRIGATION CONTROLLER BASED ON WIRELESS COMMUNICATION

**June 26, 11:30-14.00, 3rd International Workshop on Systems
Safety & Security - IWSSS 2015 - A
room VIP**

Chairs: DAN POPESCU, EMIL PRICOP

Cosmina – Mihaela Roşca, Gabriel Rădulescu

REDUCED TIME MICROWAVE FILTER TUNING - NEW ALGORITHM FOR FILTER TUNING

Emil Pricop, Sanda Florentina Mihalache

FUZZY APPROACH ON MODELLING CYBER ATTACKS PATTERNS ON INDUSTRIAL CONTROL SYSTEMS

Ionela Halcu, Grigore Stamatescu, Valentin Sgarciu

ENABLING SECURITY ON 6LOWPAN / IPV6 WIRELESS SENSOR NETWORKS

Darine Ameyed, Fehmi Jaafar, Jaouhar Fattahi

A SLOW READ ATTACK USING THE CLOUD

Grigore Stamatescu, Iulia Stamatescu, Dan Popescu, Cristian Mateescu

SENSOR FUSION METHOD FOR ALTITUDE ESTIMATION IN MINI-UAV APPLICATIONS

June 26, 11:30-14:00, Poster session I

“Poster Hall

Chairs: ENESCU FLORENTINA MAGDA, ANTON SOLOI

Cosmin Karl Banica, Ileana Ghita, Costin Hedwig Gandescu, Sorin Dan Grigorescu, Sanda Victorinne Paturca

SYSTEM FOR POWER SUPPLY, MONITORING, CONTROL AND COMMUNICATION FOR ISOLATED TEMPORARY HABITATS – SIGHAB

Sabina Potlog, Catalina Gherghina, Adela Vintea

CONTAINERIZED MODULAR DATA CENTERS POWERED BY WIND FARMS

Lucian Florin Sucu

REDUCING ENERGY CONSUMPTION IN WIRELESS SENSOR NETWORK USING MIMO SYSTEMS

Enescu Florentina Magda, Stirbu Cosmin, Liță Adrian Ioan

THE PROCESSING ALGORITHMS IMAGES --VISUAL PROCESSING AND QUERY DATABASES AFTER THE COLOR DESCRIPTOR

Anton Soloi

AN ENCRYPTION ALGORITHM - COMPUTABLE ABSOLUTELY NORMAL LIOUVILLE NUMBER

Gheorghe Andrei, Ion Sima, Cristian Andrei

EXPERIMENTAL DETERMINING IDEALITY COEFFICIENT FOR DIFFERENT KIND OF ACTUAL DIODES USING NI ELVIS II+

Bogdan-Constantin Neagu, Gheorghe Grigoraș

ASSESSMENT OF SLOW VOLTAGE VARIATIONS FROM THE ELECTRIC DISTRIBUTION SYSTEMS WITH FUZZY TECHNIQUES

June 26, 11:30-14:00, 2st International Workshop on LLPEE - 2015

Poster session

“Poster Hall

Chairs: ROBERT BELOIU, ZDZISLAW POLKOWSKI

Luminita Mirela Constantinescu, Yannick Villeneuve

ELECTRICAL POWER ANALYSIS LEARNING AND IMPLEMENTATION IN ONE2ONE PROJECT

Ionel Bostan, Guillermo Ferrando, Carlos Hoyos

FPGA IMPLEMENTATION OF FREQUENCY DIVIDERS IN VOCATIONAL EDUCATION

Robert Beloiu

TEACHING ELECTRIC MOTORS’ STARTING METHODS IN LIFELONG LEARNING PROGRAMS

Alexandra Cernian, Valentin Sgarciu, Bogdan Martin

SENTIMENT ANALYSIS FROM PRODUCT REVIEWS USING SENTIWORDNET AS LEXICAL RESOURCE

Săvulescu Corina, Zdzislaw Polkowski, Blidaru Cătălina , Deaconescu Ionuț Cosmin
SECURITY IN E-LEARNING SYSTEMS

Corina Savulescu, Zdzislaw Polkowski, Albu Iulian Alexandru

THE ONLINE AND COMPUTER AIDED ASSESSMENT

Mariana Iorgulescu

ELECTRICAL MACHINES LEARNING AND TRAINING IN ONE2ONE PROJECT

June 26, 11:30-14:00, 1st Workshop on Robotics, Mechatronics and Control – WRMC 2015– Poster session
“Poster Hall

Chairs: LUCIAN ȘTEFĂNIȚĂ GRIGORE, ADRIAN TULBURE

Tudor Cătălin Apostolescu, Constantin Udrea, Georgeta Ionașcu, Despina-Paula Duminică
DESIGN AND TESTING OF AN AUTOMATIC DOSING SYSTEM FOR OPHTHALMIC LIQUIDS

Radu Tarulescu, Stelian Tarulescu
MEASUREMENT METHODS FOR THE PATH DEVIATION OF MOBILE ROBOTS

Ioana I. Farkas, Adrian Tulbure, Cristian Farcas
ADVANCED CONTROL PROCEDURE FOR AUTONOMOUS UNDERWATER ROBOTS

Ionel Nuță, Octavian Orban, Salih Gökçel
CONSIDERATIONS ON THE MOBILITY AND PROTECTION OF FIREFIGHTING ROBOT

Daniel Constantin, Constantin Voiniciuc, Ingrid Mărcoianu
ASPECTS REGARDING THE DESIGN AND REALISATION OF A HUMANOID ROBOT

Dan Laurențiu Grecu, Ștefan Liviu Popescu
HARD/SOFT SIMULATOR FOR ELECTRIC ENGINES CONTROLLED WITH SIEMENS AUTOMATES

Radut Marin, Oproescu Mihai
MULTIFUNCTIONAL INTEGRATED PHOTOVOLTAIC WINDOW WITH ADVANCED FEATURES OF ENERGY HARVESTING AND INDOOR SHADING CONTROL: HARDWARE IMPLEMENTATION

June 26, 15:30-17:00, ECAI Afternoon sessions

June 26, 15:30-17:00, ECAI sessions

June 26, 15:30-17:00, E- sessions

June 26, 17:00-17:30 Coffee break

June 26, 17:30-18:00, ECAI Closing Solemnity

**June 26, 15:30-17:00, Software & Computer Applications - C
room 309**

Chairs: RADU DOGARU, IULIAN VIZITIU

Costin Cepisca, Florin Ancuta, George Calin Seritan, Ana Maria Paraschiv

OPTIMIZATION AND MONITORING ENERGY CONSUMPTION FROM SMALL INDUSTRIAL CONSUMERS

Mihai Gavrilescu

NOISE ROBUST AUTOMATIC SPEECH RECOGNITION SYSTEM BY INTEGRATING ROBUST PRINCIPAL COMPONENT ANALYSIS (RPCA) AND EXEMPLAR-BASED SPARSE REPRESENTATION

Mihai Gavrilescu

IMPROVED AUTOMATIC SPEECH RECOGNITION SYSTEM BY USING COMPRESSED SENSING SIGNAL RECONSTRUCTION BASED ON L0 AND L1 ESTIMATION ALGORITHMS

Florin Enache, Daniel Deperateanu, Teofil Oroian, Florin Popescu, Iulian Vizitiu

THEORETICAL AND PRACTICAL IMPLEMENTATION OF SCRAMBLING ALGORITHMS FOR SPEECH SIGNALS

Iulian Vizitiu, Florin Enache, Daniel Deperateanu, Teofil Oroian, Aurelian Nicula

AN IMPROVED NEURAL APPROACH OF SAMMON PROJECTION ALGORITHM

Marilena Lazar, Diana Militaru

AUTOMATIC LEXICO-SYNTACTIC CLASSIFICATION OF NOUN-ADJECTIVE RELATIONS FOR ROMANIAN LANGUAGE

**June 26, 15:30-17:00, Electronic Circuits & Equipment - B,
room E310**

Chairs: HORIA ANDREI, REMUS PUSCA

Hussein Ali Salah, Mariana Mocanu, Adina Florea

DEVELOPMENT OF A PROTOTYPE ARCGIS- WEB-BASED DECISION APPLICATION WATERDSS: FOR WATER POLLUTION MANAGEMENT

Costin Cepisca, Felix Constantin Adochiei, Sabina Potlog, Cosmin Karl Banica

PLATFORM FOR BIO-MONITORING OF VITAL PARAMETERS IN CRITICAL INFRASTRUCTURES OPERATION

Andrei Ion Bogdan, Nicu Bizon

VOLTAGE-MODE CONTROL OF THE DC-DC POWER CONVERTER - A SHORT REVIEW

Alexandru Cioaca

ADVANCED HPC METHODS FOR LARGE-SCALE SENSITIVITY ANALYSIS

**June 26, 15:30-17:00 , special ECAI session - B,
Young Researchers session
organized with technical support of IEEE-IAS-RO Chapter
room E308**

Chairs: NICU BIZON, MIRONELA PIRNAU

Arva Mihai Cătălin, Nicu Bizon

SOME ASPECTS ON MODELING OF THE SIGNAL AND POWER INTEGRITY IN A PCB
BASED ON WAVEFORM ANALYSIS

Stănică Dorin – Mirel, Şişman George Robert

TRENDS IN COMPUTATIONAL INTELLIGENCE APPLIED IN NUCLEAR ENGINEERING
FOR NON-DESTRUCTIVE EXAMINATION TECHNIQUES

Mironela Pirnau

CONSIDERATIONS ON THE FUNCTIONS AND IMPORTANCE OF A WEB CRAWLER

Ionut Emil Iacob, Alex Apostolou

A QUANTITATIVE RISK ANALYSIS FRAMEWORK FOR BOW-TIE MODELS

Cătălin Lupu, Vasile-Gheorghită Găitan, Valeriu Lupu

FINGERPRINTS USED FOR SECURITY ENHANCEMENT OF ONLINE BANKING
AUTHENTICATION PROCESS

**June 26, 15:30-17.00, 3rd International Workshop on Systems Safety
& Security - IWSSS 2015 - B
room VIP**

Chairs: DAN POPESCU, EMIL PRICOP

Mariam Ibrahim, Jun Chen, Ratnesh Kumar

AN INFORMATION THEORETIC MEASURE FOR SECRECY LOSS IN STOCHASTIC
DISCRETE EVENT SYSTEMS

Jingxuan Wei, Yutaka Matsubara, Hiroaki Takada

HAZOP-BASED SECURITY ANALYSIS FOR EMBEDDED SYSTEMS: CASE STUDY OF
OPEN SOURCE IMMOBILIZER PROTOCOL STACK

Jaouhar Fattahi, Mohamed Mejri

SECRECY BY WITNESS-FUNCTIONS UNDER EQUATIONAL THEORIES

Omar Abdulwahabe Mohamad, Rasha Talal Hameed, Nicolae Țăpuș

SMART HOME SECURITY BASED ON OPTIMAL WIRELESS SENSOR NETWORK
ROUTING PROTOCOLS

Paul Padure, Adela Vintea, Octavian Mihai Ghita

SAFETY MEASURES IN TESTING AIRCRAFT WHEELED PARTS

June 26, 15:30-17.00, 1st Workshop on Optical Communication Systems Connectivity - WOCSC 2015, room E210

Chairs: VIOREL MANEA, SORIN PUȘCOCI

Cornel Barbut

EVOLUTION OF FIBER OPTIC CABLES & NETWORKS IN ROMANIA

Cătălin Chivu, Cornel Barbut

THE BENEFITS OF OPTICAL FIBRES STANDARDIZATION. ONE FTTH APPROACH

Marian Vladescu

OMNIDIRECTIONAL ILLUMINATOR FOR PANORAMIC VIEWING SYSTEMS

Dan Tudor Vuza , Marian Vladescu

MULTIFUNCTIONAL AUTOMATED PLATFORM FOR DETERMINING SPATIAL CHARACTERISTICS OF OPTOELECTRONIC DEVICES

Viorel Manea, Radu Dragomir, Dan Alexandru Stoichescu

GAPPING SINGLE LAMBDA GAUSSIAN SPLIT-BEAMS FOR INTERFERENCE-FREE SPATIAL MULTIPLEXED FSO

June 26, 15:30-17.00, 1st Workshop on Advances in linear and non-linear adaptive filtering – WALNLF 2015, room E321

Chairs: FELIX ALBU, STEFANIA CECCHI

Constantin Paleologu, Silviu Ciochina, Jacob Benesty, Razvan Caramalau

ON THE PERFORMANCE OF AN OPTIMIZED NLMS ALGORITHM

Stefania Cecchi, Laura Romoli, Michele Gasparini, Alberto Carini, Ferruccio Bettarelli

AN ADAPTIVE MULTICHANNEL IDENTIFICATION SYSTEM FOR ROOM RESPONSE EQUALIZATION

Laura Romoli, Stefania Cecchi, Michele Gasparini, Francesco Piazza

AN OPTIMIZATION PROCEDURE FOR A NONLINEAR SYSTEM IDENTIFICATION APPROACH BASED ON CUBIC SPLINES

Felix Albu

FAST RECURSIVE AMIPAP ALGORITHM

Mariana Rusu

COMPUTERIZED VISUAL INSPECTION APPLIED TO IDENTIFICATION AND CLASSIFICATION OF LABELED CHEMICALS

June 26, 15:30-17:00, E –session, E –session room

Chairs: BETERINGHE ADRIAN, ADRIAN-VIOREL DIACONU

Swati Verma, Bhawna Mallick, Poonam Verma

IMPACT OF GRAY HOLE ATTACK IN VANET

Alexandru Lavric, Valentin Popa

PERFORMANCE EVALUATION OF WSN TOPOLOGY CONTROL ALGORITHMS THAT CAN BE USED IN THE SMART CITY CONCEPT

June 26, 15:30-17:00, Poster session I, "Poster Hall

Chairs: ION SIMA, DANIEL A. VISAN,

Maria Claudia Surugiu , Oana Vasilica Barna

GATHER DYNAMIC POLLUTION DATA USING MOBILE SENSORS

R.M. Teodorescu, I. Lita, I.B. Cioc, D.A Visan

VIRTUAL INSTRUMENTATION APPLICATION FOR SYMMETRICAL AND ASYMMETRICAL TEXT ENCRYPTION/DECRIPTION STUDYING

Mihaescu Mihai

MULTIPOINT CONVERTERS – A BRIEF REVIEW

Valeriu Manuel Ionescu, Adrian-Viorel Diaconu

RUBIK'S CUBE PRINCIPLE BASED IMAGE ENCRYPTION ALGORITHM IMPLEMENTATION ON MOBILE DEVICES

Alin Mazare, Laurentiu-Mihai Ionescu, Adrian - Ioan Lita, Gheorghe Serban, Marin Ionut

REAL TIME ROUTE LEARNING AND RECOGNITION USING HARDWARE ARTIFICIAL NEURAL NETWORK

Florin Cretu - YO8CRZ

REAL TIME HF PROPAGATION MONITORING

Gheorghe Oproescu YO4BKM

WHY THERE ARE YET RADIOAMATEURS

June 26, 15:30-17:00, Poster session II, "Poster Hall

Chairs: LIVIU SERBANESCU, VALERIU IONESCU

Dumitru Cazacu, Constantin Stoica, Dorinel Constantin

ON THE COMPUTATION OF THE SAR FOR A 3D HUMAN HEAD MODEL USING ANSYS HFSS

Constantin Stoica, Dumitru Cazacu

3D NUMERICAL MODELING WITH FEM OPERATION UNDER LOAD ON THE ALTERNATOR CLAW POLES

Mateescu Mihaela-Adina, Pescaru Gheorghita

AN EXPERT SYSTEM ARCHITECTURE FOR MANAGING THE BIOMATERIALS USED IN MEDICAL DEVICES

Ion Vasile, Horia Andrei, Mihaita Ardeleanu, Vicentiu Vasile

DATA ACQUISITION SYSTEM AND BIOSIGNAL ANALYSIS OF CARDIO PARAMETERS BY USING PHOTOPLETHYSMOGRAPHY METHOD

Ștefan-Adrian Toma, Adrian-Septimiu Moldovan, Valentin Ioan Poncos, Andrei Anghel, Delia Cosmina Teleagă, Florin Șerban

FIRST RESULTS WITH A C-BAND GROUND BASED SYNTHETIC APERTURE RADAR

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

ECAI CLOSING CEREMONY

June 26, 17:30-18:00, ECAI Closing Solemnity,

Aula Magna

Closing speeches

17:30-17:35 Nicu Bizon, Chair of ECAI 2015 and dean of the ECC Faculty,

17:35-17:40 Ion Sima, Chair of ECAI 2015 and dean of the ETIT Faculty,

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

June 26, 18:00-20:00: ECAI Gala Dinner

Saturday, June 27, 2015

9:00-17:00, ECAI trip - Tour of the Bucharest city

Departure at 9.00, June 27, from UNIVERSITY OF S-E EUROPE 'Lumina'.
Arrival will be at about 17.00, June 27.

Participants' departure

Sunday, June 26, 2015

Participants' departure

End of ECAI conference actions

Workshops organized under ECAI 2015 conference

International Workshop on Systems Safety & Security - IWSSS 2015
International Workshop on Applied Electronics – IWAE 2015
International Workshop on Finite Elements in Electrical Engineering – IWFEED 2015
International Workshop Lifelong Learning Programs in Engineering Education – IWLLPEE 2015
Workshop on Automotive and Intelligent Transport Systems – WAITS 2015
Workshop on Smart Grids and Power Line Communication – WSGPLC 2015
Workshop on Wireless Systems for Defense – WWSD 2015
Workshop on Robotics, Mechatronics and Control – WRMC 2015
Workshop on Optical Communication Systems Connectivity - WOCSC 2015
Workshop on Advances in linear and non-linear adaptive filtering – WALNLF 2015

Visiting suggestions & sightseeing in Bucharest city:

Known for its wide, tree-lined boulevards, glorious Belle Époque buildings and a reputation for the high life (which in the 1900s earned its nickname of "Little Paris"), Bucharest, Romania's largest city and capital, is today a bustling metropolis. Romanian legend has it that the city of Bucharest was founded on the banks of the Dambovita River by a shepherd named Bucur, whose name literally means "joy." His flute playing reportedly dazzled the people and his hearty wine from nearby vineyards endeared him to the local traders, who gave his name to the place.

The Arch of Triumph

Initially built of wood in 1922 to honor the bravery of Romanian soldiers who fought in World War I, Bucharest's very own Arc de Triomphe was finished in Deva granite in 1936. Designed by the architect, Petre Antonescu, the Arc stands 85 feet high. An interior staircase allows visitors to climb to the top for a panoramic view of the city. The sculptures decorating the structure were created by leading Romanian artists, including Ion Jalea, Constantin Medrea and Constantin Baraschi.

Revolution Square

The square gained worldwide notoriety when TV stations around the globe broadcasted Nicolae Ceausescu's final moments in power on December 21, 1989. It was here, at the balcony of the former Communist Party Headquarters, that Ceausescu stared in disbelief as the people gathered in the square below turned on him. He fled the angry crowd in his white helicopter, only to be captured outside of the city a few hours later. The square's importance stretches back long before the dramatic events of the 1989 Revolution. On the far side of the square stands the former **Royal Palace**, now home to the **National Art Museum**, the stunning **Romanian Athenaeum** and the historic **Athenee Palace Hotel**. At the south end of the square, you can visit the small, but beautiful, **Kretzulescu Church**.



The Romanian Athenaeum

The work of French architect Albert Galleron, who also designed the National Bank of Romania, the Athenaeum was completed in 1888, financed almost entirely with money donated by the general public. One of the preeminent public fundraising campaigns ever in Romania, the "Give a penny for the Athenaeum" campaign saved the project after the original patrons ran out of funds. With its high dome and Doric columns, the Athenaeum resembles an ancient temple. The lobby has a beautifully painted ceiling decorated in gold leaf, while curved balconies cascade in ringlets off a spiral staircase. A ring of pink marble columns is linked by flowing arches where elaborate brass lanterns hang like gems from a necklace. Inside the concert hall, voluptuous frescoes cover the ceiling and walls. Renowned worldwide for its outstanding acoustics, it is Bucharest's most prestigious concert hall and home of the Romanian George Enescu Philharmonic.



Manuc's Inn

Built between 1804 and 1808 by the wealthy Armenian trader Emanuel Marzaian (called by the Turks, Manuc Bey), the inn was witness in 1812 to the preliminary talks of the Peace Treaty that put an end to the Russian - Turkish War (1806-1812). A favorite meeting and resting place for tradesmen in those times, Manuc's Inn has preserved to this day its old style and flavor. It now serves as a hotel with a restaurant, a wine cellar and a pastry shop.



University Square

Buzzing with crowds and traffic from early morning until late at night, this area is one of the most popular meeting places in Bucharest. The square brings together some remarkable architectural masterpieces on each of its four corners, starting with the **University of Bucharest's** School of Architecture, the **Bucharest National Theatre**, the neoclassical **Coltea Hospital** and its lovely **church (1702-1794)** and the **Sutu Palace**, now home to the Bucharest History Museum. In the middle of the square, on a little island, 10 stone crosses pay respect to those killed during the 1989 revolution. Below the square is an underground passage with shops and eateries, allowing pedestrians to cross from one side of the square to another and to access the subway station.



Parliament Palace

Built by Communist Party leader, Nicolae Ceausescu, the colossal Parliament Palace (formerly known as the People's Palace) is the second largest administrative building in the world after the Pentagon. It took 20,000 workers and 700 architects to build. The palace boasts 12 stories, 1,100 rooms, a 328-ft-long lobby and four underground levels, including an enormous nuclear bunker.

The Palace of Parliament it is the world's second-largest office building in surface (after the Pentagon) and the third largest in volume (after Cape Canaveral in the U.S. and the Great Pyramid in Egypt). The crystal chandelier in the Human Rights Hall (Sala Drepturilor Omului) weighs 2.5 tons. Some of the chandeliers have as many as 7,000 light bulbs. When construction started in 1984, the dictator intended it to be the headquarters of his government. Today, it houses Romania's Parliament and serves as an international conference centre. Built and furnished exclusively with Romanian materials, the building reflects the work of the country's best artisans. A guided tour takes visitors through a small section of dazzling rooms, huge halls and quarters used by the Senate (when not in session). The interior is a luxurious display of crystal chandeliers, mosaics, oak paneling, marble, gold leaf, stained-glass windows and floors covered in rich carpets.



Village Museum

Founded by royal decree in 1936, this fascinating outdoor museum, the largest in Europe, covers some 30 acres on the shores of Lake Herastrau in Herestrau Park. It features a collection of 50 buildings representing the history and design of Romania's rural architecture. Steep-roofed peasant homes, thatched barns, log cabins, churches and watermills from all regions of the country were carefully taken apart, shipped to the museum and rebuilt in order to recreate the village setting. Throughout the year, the Village Museum hosts special events where you will have a chance to witness folk artisans demonstrating traditional skills in weaving, pottery and other crafts. Folk arts and crafts are available at the museum gift shop.



Snagov Monastery

Where: 25 miles north of Bucharest; Access: car, bus, taxi

In 1458 - more than one hundred years after the church was built (1364) - Romanian prince Vlad Tepes (Vlad the Impaler) added thick defending walls and a dungeon. A plaque on the floor inside the church marks the grave with the presumed remains of the world-known count.

The monastery is located on an island on lake Snagov, and can be accessed on a pedestrian bridge or by boat.



Mogosoia Palace & Brancovenesc Museum

Located in the village of the same name on the shore of Mogosoia Lake, this palace reflects the Brancovenesc architectural style, featuring traditional Romanian staircase balconies, arcades and columns. Built by the Walachian prince Constantin Brancoveanu between 1698 and 1702 as a summer residence, the palace features a beautiful Venetian-style loggia on the facade facing the lake and a balcony with intricate Brancovenesc-style carvings overlooking the main courtyard. Today, the palace houses the **Brancovenesc Museum** with exhibits of valuable paintings, wood and stone sculptures, gold and silver embroideries, rare books and precious manuscripts. Inside the complex, there is also a church built in 1688 and decorated by a team of Greek artists. The original interior murals have been well-preserved, including a painting showing Constantin Brancoveanu with his wife, Maria, and their four sons and seven daughters, all wearing royal dress.



ECAI 2015, June 25 – June 26, 2015, Timetable and Program

Date	Time	Session or activity	Location
June 24	20:30-22:00	ECAI Welcome cocktail	“R” –restaurant
June 25	8:00-8:50	Authors Registration	“CD” - Poster Hall
	9:00-9:40	ECAI Opening Ceremony	Aula Magna
	9:40-12:10	ECAI KEYNOTE LECTURES I	Aula Magna
	11:00-11:30	Coffee break & Brokerage events	Poster Hall
	12:15-12.45	RT1: ANSYS Electromagnetics – A short tutorial of applications	Room E310
		RT2: Lifelong Learning Programs in Engineering Education: IWLLPEE'14	Room E309
		RT3: Research & Technological Transfer & Business	Room E308
	12:15-14.00	Brokerage events	Poster Hall
	14:00-15.30	Lunch	“R” –restaurant
	15:30-17:00	ECAI Afternoon sessions	
		Software & Computer Applications - A	Room E210
		Bio-medical applications	Room VIP
		Workshop WAITS 2015	Room E310
		Workshop WRMC 2015	Room E308
		Workshop IWAE 2015	Room E335
		Workshop IWFEED 2015	Room E321
		Workshop WSGPLC 2015	Room E309
17:00-17:30	Coffee break & Brokerage events	Poster Hall	
17:30-19:00	Concert of Classic Music	Aula Magna	
19:00-21.00	ECAI Welcome dinner	“R” –restaurant	
June 26	9:00-9:30	Authors Registration	“CD” - Poster Hall
	9:30-11:00	ECAI KEYNOTE LECTURES II	Aula Magna
	11:00-11:30	Coffee Break & Brokerage events	Poster Hall
	11:30-14:00	ECAI morning sessions	
		Software & Computer Applications - B	Room E309
		Electronic Circuits & Equipment – A	Room E310
		Communication	Room E210
		Young Researchers session - A	Room E308
		Workshop IWSSS 2015 - A	Room VIP
		Workshop WWSD 2015	Room E321
		Workshop LLPEE	Poster Hall
	ECAI Poster sessions	Poster Hall	
	14:00-15:30	Lunch	“R” – ECAI restaurant
	15:30-17:00	ECAI Afternoon sessions	
		Software & Computer Applications C	Room E309
		Electronic Circuits & Equipment - B	Room E310
		Young Researchers session - B	Room E308
Workshop IWSSS 2015		Room VIP	
Workshop WOCSC 2015		Room E210	
Workshop WALNLF 2015		Room E321	
ECAI E-session		PCs on Poster Hall	
ECAI Poster sessions	Poster Hall		
17:00-17:30	Coffee Break& Brokerage events	Poster Hall	
17:30-18:00	ECAI Closing Solemnity	Aula Magna	
18:00-20:00	ECAI Gala Dinner	“R” –restaurant	
20:00-23:00	Free time (shopping & sightseeing)		
June 27	9:00 – 17:00	ECAI Trip Participants departure	Departure at 9.00, June 27, from UNIVERSITY OF S-E EUROPE 'Lumina'. Arrival will be at about 17.00, June 27.
June 28		Participants departure	

“R” –restaurant inside the UNIVERSITY OF S-E EUROPE 'Lumina'.

7th INTERNATIONAL CONFERENCE
on
ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE
ECAI 2015, June 25 – June 27, 2015

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