11th INTERNATIONAL CONFERENCE
on
ELECTRONICS, COMPUTERS
and ARTIFICIAL INTELLIGENCE
ECAI 2019, June 27– June 29, 2019

PROGRAM

hosted by

UNIVERSITY OF PITESTI, PITESTI, ROMANIA:
- Faculty of Electronics, Communications and Computers (ECC)

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ECAI 2019, June 27– June 39, 2019

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PROGRAM

Wednesday, June 26, 2019

Wednesday, June 26, Participants' arrival

Thursday, June 27, 2019

June 27, 8:00-8:50, conference desk
Registration of the participants

June 27, 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 Nicu Bizon,
Chair of ECAI 2019. University of Pitesti

09:05-09:10 Welcome message of Dumitru Chirlesan,
Rector of the University of Pitesti

09:10-09:15 Welcome message of Mihai Oproescu,
Dean of the faculty of ECC, University of Pitesti

09:15-09:20 Welcome message of Gheorghe Serban
Chief of the ECIE department, faculty of ECC, University of Pitesti

09:20-09:25 Welcome message of Cristian Negrescu
Chair of the IEEE Romanian section

09:25-09:30 Welcome message of Radu-Emil Precup,
Romanian Academy (c.m.)

09:30-09:35 Welcome message of Takeshi Yamakawa,
Honorary Chair of the ECAI conference

09:35-09:45 Welcome message of Partners and Sponsors

June 27, 09:40-13:30, ECAI KEYNOTE LECTURES –I, keynote room (Senate Aula)

Chairs: Ibrahim Sefa and Nicu Bizon

09:45-10:25, Radu-Emil Precup
EVOLVING FUZZY AND NEURAL NETWORK MODELS OF FINGER
DYNAMICS FOR PROSTHETIC HAND MYOELECTRIC-BASED CONTROL

10:25-11:05, Erol Kurt
COMPARISON OF ELECTROMAGNETIC ENERGY HARVESTERS

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

Chairs: Erol Kurt and Slim Tnani

11:35-12:15, Ibrahim Sefa
LYAPUNOV-FUNCTION-BASED CONTROL OPTIONS FOR GRID-
CONNECTED INVERTERS

June 27, 15:30-17:00, ECAI Afternoon sessions
June 27, 17:00-17:30 Coffee break
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June 27, 15:30-18:00, ECAI Afternoon sessions
June 27, 15:30-17:00, ECAI sessions
June 27, 15:30-17:00, ECAI Poster and E-sessions

June 27, 15:30-17.00, Bio-medical applications
room A

Chairs: Radu-Emil Precup, Sorin Puscoci

15:30-15:45 Ionescu Marius and Paşca Sever
MEASURING GLUCOSE BLOOD WITH SPECTROSCOPY SKIN IN NEAR
INFRARED
15:45-16:00 Eleni Gati, Sotirios Kokosis, Nikolaos Patsourakis and Stefanos Manias
ANALYSIS OF PRIMARY-SIDE SERIES COMPENSATION OF INDUCTIVE
CHARGERS FOR BIOMEDICAL IMPLANTABLE DEVICES
16:00-16:15 Radu-Emil Precup, Teodor-Adrian Teban and Adriana Albu
EVOLVING FUZZY AND NEURAL NETWORK MODELS OF FINGER
DYNAMICS FOR PROSTHETIC HAND MYOELECTRIC-BASED CONTROL
16:15-16:30 Eva Tuba, Ivana Strumberger, Nebojsa Bacanin and Milan Tuba
ANALYSIS OF LOCAL BINARY PATTERN FOR EMPHYSEMA
CLASSIFICATION IN LUNG CT IMAGE

16:30-16:45 George Suciu, Adrian Pasat, Mihaela Balanescu, Ioana Suciu, Alexandru Banaru and Iacob Crucianu

ESTABLISH: A SMART HEALTH PLATFORM FOR ENHANCING THE QUALITY OF LIFE

16:45-17:00 Sorin Soviany and Sorin Puscoci

A BIOMETRIC SECURITY MODEL WITH CO-OCCURRENCE MATRICES FOR PALMPRINT FEATURES

June 27, 15:30-17.00, Electrical engineering applications room B

Chairs: Stefan Simion, Ovidiu Constantin Novac

15:30-15:45 Ionut Craiu, Florian Ion, Nicolae Fidel, Ramona Chirescu and Mihail-Florin Stan

MEASURING AND MAINTAINING THE WATER LEVEL IN A TANK FOR EFFICIENT USE IN IRRIGATION

15:45-16:00 Ioan Marinescu, Horia Andrei and Ionut Iordache

PROTECTION METHODS AND ACTIONS TO INCREASE THE SAFETY OF OPERATION IN POWER SYSTEMS ASSIMILATED TO CRITICAL INFRASTRUCTURES

16:00-16:15 Stefan Simion

DESIGN CONSIDERATIONS ON FLAT AND LOW RIPPLE REAL-TO-REAL TWO-SECTION IMPEDANCE TRANSFORMER

16:15-16:30 Dumitru Cazacu, Radu Jubleanu, Nicu Bizon and Cristian Monea

COMPARATIVE NUMERICAL ANALYSIS OF THE STORED MAGNETIC ENERGY IN CYLINDRICAL AND TOROIDAL SUPERCONDUCTING MAGNETIC COILS

16 :30-16:45 Mihaela Cornelia Novac, Marius Codrean, Ovidiu Constantin Novac, Mihaela Codrean, Mihai Oproescu and Gyöngyi Bujdosó

THE NUMERICAL MODELING OF THE INDUCTIVE HEATING PROCESS AT DIFFERENT FREQUENCIES, USING THE FLUX2D SOFTWARE

16:45-17:00 Mircea Gordan, Dorina Mioara Purcaru, Marius Codrean, Mihaela Cornelia Novac, Ovidiu Constantin Novac and Mihaela Codrean

ASPECTS REGARDING THE NUMERICAL SIMULATION OF THE INDUCTIVE HEATING PROCESS, USING THE FLUX2D AND FEMM SOFTWARE

June 27, 15:30-17.00, Electronic Circuits & Equipment - I room C

Chairs: Dorel Aiordachioaie, Adrian Tulbure

15:30-15:45 Cristian Monea and Nicu Bizon

THE USE OF NUCLEAR QUADRUPOLE RESONANCE SPECTROSCOPY FOR DETECTION OF PROHIBITED SUBSTANCES: TECHNIQUES AND EQUIPMENT

15:45-16:00 Ovidiu Plugariu, Lucian Petrica, Radu Pirea and Radu Hobincu

HADOOP ZEDBOARD CLUSTER WITH GZIP COMPRESSION FPGA ACCELERATION

16:00-16:15 Zeynep Bala Duranay and Hanifi Guldemir
SIMULATION OF POWER FACTOR CORRECTED AC-DC BOOST
CONVERTER
16:15-16:30 Dorel Aiordachioaie and Sorin Pavel
QUALITATIVE ANALYSIS OF THE TIME-FREQUENCY IMAGES OF
VIBRATIONS IN FAULTY BEARINGS
16:30-16:45 Adrian Tulbure, Calin Petrascu and Valentin Voiculescu
EXPERIMENTAL POWER SUPPLY ASSESSMENT FOR USUAL IT
APPLICATIONS
16:45-17:00 Gaudentiu Varzaru, Adrian Zarnescu, Razvan Ungurelu and Mihai Secere
DISMANTLING THE CONFUSION BETWEEN THE EQUIVALENT CO2 AND
CO2 CONCENTRATION LEVELS

June 27, 15:30-17.00, Software & Computer Applications - I, room D

Chairs: Laurentiu Ionescu, Serban Gheorghe

15:30-15:45 Andrei Marius Avram, Mihai Lica Pura and Stefan-Adrian Toma
TINY NETWORK INTRUSION DETECTION SYSTEM WITH HIGH
PERFORMANCE
15:45-16:00 Andreea Scurtu and Mihai Lica Pura
WEB GUI FOR AUTOMATING THE FORMAL VERIFICATION OF SECURITY
PROTOCOLS USING CASPER&FDR4
16:00-16:15 Gozde Karatas, Onder Demir and Ozgur Koray Sahingoz
A DEEP LEARNING BASED INTRUSION DETECTION SYSTEM ON GPUS
16:15-16:30 Imad Ali Hasson, Nicolae Tapus and Algayar Sarmad Monadel S
ENABLING THE INTEGRATION OF HEALTH-EMERGENCY ALERT WITH
PRIVACY OF PATIENTS' LOCATION BASED SERVICES
16:30-16:45 Sarmad Monadel Sabree Algayar, Nicolae Goga, Imad Ali Hassoon and
Mohammed Tali Qasim Almalchy
MEDICAL SOCIAL MEDIA SYSTEMS – IMPLEMENTATION OF THE
ANDROID APPLICATION
16:45-17:00 Adriana Alexandru, Dora Coardos and Eleonora Tudora
ACCEPTANCE OF THE TECHNOLOGIES DEPLOYED FOR THE
DEVELOPMENT OF ONLINE PUBLIC SERVICES AND SYSTEMS USED BY
ELDERLY

June 27, 15:30-17:00, Communication
room E

Chairs: Razvan Andrei Gheorghiu, Valentin Alexandru Stan

15:30-15:45 Roxana Dragomir, Sergiu Maluțan and Marilena Lazăr
AN ANALYSIS OF CRYPTOGRAPHIC ALGORITHM STRENGTH BASED ON S-
BOX PROPERTIES
15:45-16:00 Valentin-Alexandru Vladuta, Ion Bica and Victor-Valeriu Patriciu
ENERGY EFFICIENT TRUST-BASED SECURITY MECHANISM FOR
WIRELESS SENSORS AND UNMANNED AERIAL VEHICLES
16:00-16:15 Özlem Alpergün, Selçuk Taşcıoğlu and Memduh Köse

PERFORMANCE ANALYSIS OF TRANSMITTER IDENTIFICATION BASED ON I/Q IMBALANCE ESTIMATION
16:15-16:30 Florin Diaconescu
BLIND DETECTION OF IMPULSE RADIO UWB TIME- HOPPING PULSES USING THE PHASE SPACE TRANSFORMATION
16:30-16:40 Valentin Iordache, Razvan Andrei Gheorghiu, Valentin Alexandru Stan and Madalina Tarla
ZIGBEE LOCALIZATION SYSTEM FOR PUBLIC TRANSPORT VEHICLES
16:40-16:50 Razvan Andrei Gheorghiu, Valentin Iordache and Marius Minea
ASSESSMENT OF ZIGBEE COMMUNICATIONS EFFICIENCY FOR TRUCK PLATOONING APPLICATIONS
16:50-17:00 Razvan Andrei Gheorghiu, Valentin Alexandru Stan, Valentin Iordache and Dorin Buretea
USAGE OF BLUETOOTH SCANNERS TO DETECT URBAN TRAFFIC

June 27, 15:30-17:00, Poster session I
"Poster Hall

Chairs: Petre Anghelescu, Nicu Bizon

Xavier Quinn
SINGLE SENSOR BLUETOOTH MULTILATERATION FROM ARBITRARY LOCATIONS
Cristina Teodora Balaceanu, Daniela Penu and Dorina Mocuta
THE IMPACT OF TECHNOLOGY AND INNOVATION DEVELOPMENT ON POPULATION DYNAMICS AND STRUCTURE
Teodorescu Rodica-Mihaela
VIRTUAL INSTRUMENT USED FOR PLOTTING THE ROOT LOCUS
Teodorescu Rodica-Mihaela
VIRTUAL INSTRUMENT USED FOR STUDYING THE STABILITY OF THE SYSTEMS
Ioana Marcu, George Suciu, Cristina Mihaela Balaceanu and Alexandru Banaru
IOT BASED SYSTEM FOR SMART AGRICULTURE
Kareem Difar, Jalal Hussein Abd Ali, Amer Abbood Al-Behadili, Maysam Kadhim Kareem, Ali Raad Deaim and Mustafa Khaleel Hamadani
INVESTIGATION OF THE DIFFERENT MODELS PERFORMANCE FOR EVALUATING THE DISTURBANCE IN THE IONOSPHERE
Banes Vasile, Babarada Florin and Ravariu Cristian
CONVERSION TOOL FOR AUDIO-VIDEO FILE COMPATIBILITY IN MOODLE E-LEARNING PLATFORM
George Cosmin Stanica and Petre Anghelescu
MANAGEMENT SOFTWARE FOR A PUBLISHING COMPANY
Sîrb Vali-Chivuța
SOFTWARE FOR MODELING, SIMULATION AND PROTOTIPING RTT ROBORTS
Mihai-Catalin Arva, Eugen Diaconescu, Mirel Stanica and Nicu Bizon
A REVIEW OF DIFFERENT ESTIMATION METHODS OF DC OFFSET VOLTAGE FOR PERIODIC-DISCRETE SIGNALS

Alexandru Buturuga, Rodica Constantinescu and Dan Stoichescu
CURRENT CONSUMPTION ANALISYS FOR 8-BIT MICROCONTROLLERS
Cristian Iorga and Victor-Emil Neagoe
A DEEP CNN APPROACH WITH TRANSFER LEARNING FOR IMAGE
RECOGNITION
Noor Naeem and Musa Wali
DESIGN AND ANALYSIS OF A NEW G-SHAPE SINGLE LAYER
REFLECTARRAY ANTENNA
Angelo Nicolae Petre, Brana Liliana Samoila and Ilie Utu
SOLUTION TO CONNECT A PHOTOVOLTAIC POWER STATION TO THE
NATIONAL POWER GRID IN OPTIMUM ECONOMIC CONDITIONS

June 27, 15:30-17:00, E –session I
E –session room

Chairs: Mihai Oproescu

15:30-15:40 Bashar Sami and Marwa Ismail
INTELLIGENT ALARM SYSTEM FOR HOSPITALS USING SMARTPHONE
TECHNOLOGY
15:40-15:50 Irum Matloob and Shoab Khan
A FRAMEWORK FOR FRAUD DETECTION IN GOVERNMENT SUPPORTED
NATIONAL HEALTHCARE PROGRAMS
15:50-16:00 Eravatee Raje, Apoorva Maheshwari, Mihir Karkare and Shubham Joshi
SHRAVYA - A FRAMEWORK FOR ENUNCIATION OF SANSKRIT WORDS
AND PHRASES
16:00-16:10 Amit Kumar and Neetesh Gupta
A NOVEL SENTIMENT POLARITY AND PREDICTION ENHANCED MACHINE
LEARNING METHOD TO IMPROVE CUSTOMER RELATIONSHIP
16:10-16:20 Radu Rădescu and Rareș Niculescu
INTELLIGENT MONITORING OF VITAL PARAMETERS IN WIRELESS
APPLICATIONS: ANDROID SOLUTION FOR PULSE AND BODY
TEMPERATURE
16:20-16:30 Radu Rădescu and Mihaela Dragu
AUTOMATIC ANALYSIS OF POTENTIAL HAZARD EVENTS USING
UNMANNED AERIAL VEHICLES
16:30-16:40 Dong Chen, Ruqiao Xu and Bo Han
PATCH SELECTION DENOISER: AN EFFECTIVE APPROACH DEFENDING
AGAINST ONE-PIXEL ATTACKS
16:40-16:50 Hiba A. Abu-Alsaad
AGENT APPLICATIONS IN E-LEARNING SYSTEMS AND CURRENT
DEVELOPMENT AND CHALLENGES OF ADAPTIVE E-LEARNING SYSTEMS
16:50-17:00 Andreea Nedelcu, Bogdan Nedelcu, Alexandru Ioan Sgarciu and Valentin
Sgarciu
MINING DATA FOR HUMAN RESOURCES

June 27, 19:00-21:00:
Cultural program & ECAI Dinner

June 28, 09:30-11:00, **ECAI KEYNOTE LECTURES II**,
keynote room (Senate Aula)

Chairs: Radu-Emil Precup and Serban Gheorghe

09:30-10:10, Constantin Vertan
UNEXPECTED APPLICATION-SPECIFIC DIGITAL IMAGE ACQUISITION
ERRORS

10:10-10:50, Slim Tnani
HYBRID SYSTEMS FOR ELECTRICAL GENERATION WITH ENERGY
STORAGE

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

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June 28, 11:00-14:00 ECAI morning sessions

June 28, 11:30-14:00, ECAI sessions
June 28, 11:30-14:00, ECAI workshops
June 28, 13:00-14:00, ECAI Poster and E-sessions

June 28, 11:30-14:00, Communication session and
the Round Table: 5G and Machine To Machine (M2M) Cyber
Security Challenges for the Automotive Industry
room A

Chairs: Mariana Jurian, Ioan Lita, Daniel Visan

11:30-12:00 Ioan Constantin, Cristian Patachia, Carmen Patrascu, Andrei Avadanei
and Lucian Nitescu
THREAT CLASSIFICATION IN CURRENT COMMUNICATION
INFRASTRUCTURES
12:00-12:15 Anas Al-Roubaiey and Hamdi Al-Jamimi
ONLINE POWERTOSSIM SIMULATOR FOR WIRELESS SENSOR
NETWORKS
12:15-12:30 Andrei Scheianu and George Suciu
HYBRID VLC COMMUNICATION SYSTEM FOR SMALL TO MEDIUM SIZE
ENTERPRISES
12:30-12:45 Cristina-Gabriela Gheorghe, Radu Dragomir and Dan Alexandru
Stoichescu
MASSIVE MIMO TECHNOLOGY FOR 5G ADAPTIVE NETWORKS
12:45-13:00 Hasan Tahsin Oğuz, Aykut Kalaycıoğlu and Ahmet Akbulut
FEMTOCELL OUTAGE DETECTION IN MULTI-TIERED NETWORKS USING
LSTM
13:00-13:15 Mustafa Khaleel Hamadani and Husam Al-Alwash
CENTRALISED MULTI-HOP ROUTING FOR DEVICE-TO-DEVICE
COMMUNICATION: SIMULATION AND RESULTS

13:15-13:30 Ionela-Cristina Voicu, Silviu Ciochină and Andrei Anghel
A METHOD FOR IMPROVING THE ACCURACY OF DIRECTION OF
ARRIVAL MEASUREMENT BASED ON SPARSE VECTOR ESTIMATION
13:30-14:00 **Round Table organized by Orange – ECAI partner**
5G and Machine To Machine (M2M) Cyber Security Challenges for the Automotive
Industry

June 28, 11:30-14.00, Expert systems & Artificial Intelligence, room B

Chairs: Gheorghe Gavriloaia, Ionita Silviu

11:30-11:45 Hamdi Al-Jamimi and Anas Al-Roubaiey
HYBRID MODELLING BASED ON SUPPORT VECTOR REGRESSION WITH
GENETIC ALGORITHMS FOR INTELLIGENT WI-FI-BASED INDOOR
LOCALIZATION SYSTEM
11:45-12:00 Qixin Xie, Chao Li, Boyu Diao, Zhulin An and Yongjun Xu
L0 REGULARIZATION BASED FINE-GRAINED NEURAL NETWORK
PRUNING METHOD
12:00-12:15 Armando Fernandes, Márcia Baptista, Luis Fernandes and Paulo Chaves
DRONE, AIRCRAFT AND BIRD IDENTIFICATION IN VIDEO IMAGES USING
OBJECT TRACKING AND RESIDUAL NEURAL NETWORKS
12:15-12:30 David-Traian Iancu, Alexandru Sorici and Adina Magda Florea
OBJECT DETECTION IN AUTONOMOUS DRIVING - FROM LARGE TO
SMALL DATASETS
12:30-12:45 Marian Novac, Bogdan Marian Bodea, Petre Anghelescu, Bogdan Mihai
Gavriloaia, Octavian Fratu and Mariuca Gavriloaia
JAPANESE CHARACTER RECOGNITION WITH MICROSTRIP LINE
NETWORKS
12:45-13:00 Adam Craig, Adarsh Ambati, Shiladitya Dutta, Pooja Kowshik, Sathvik
Nori, S. Koby Taswell, Qiyuan Wu and Carl Taswell
DREAM PRINCIPLES AND FAIR METRICS FROM THE PORTAL-DOORS
PROJECT FOR THE SEMANTIC WEB
13:00-13:15 Vladyslav Alieksieiev and Andrii Berko
ARTIFICIAL LOCUST SWARM ROUTING ALGORITHM: DECISION MAKING
IN PATH SEARCH PROBLEM
13:15-13:30 Maria Viorela Muntean
CAR PARK OCCUPANCY RATES FORECASTING BASED ON CLUSTER
ANALYSIS AND KNN IN SMART CITIES
13:30-13:45 Vitaly Gnatyuk, Sergey Zavalishin, Xenya Petrova, Gleb Odinokikh,
Alexey Fartukov, Alexey Danilevich, Vladimir Eremeev, Juwoan Yoo, Kwanghyun
Lee, Heejun Lee and Daekyu Shin
FAST AUTOMATIC EXPOSURE ADJUSTMENT METHOD FOR IRIS
RECOGNITION SYSTEM
13:45-14:00 Marius Minea, Catalin Dumitrescu and Ionuț Cosmin Chiva
UNCONVENTIONAL PUBLIC TRANSPORT ANONYMOUS DATA
COLLECTION EMPLOYING ARTIFICIAL INTELLIGENCE

June 28, 11:30-14.00, Software & Computer Applications - II, Room C

Chairs: Petre Anghelescu, Cosmin Stirbu, Corina Savulescu

11:30-11:45 Petru Cardei, Sebastian Muraru, Raluca Sfiru and Vergil Muraru
IDENTIFICATION OF CORRESPONDENTS BETWEEN A STANDARD SERIES COLLECTION AND AN EXPERIMENTAL SERIES COLLECTION
11:45-12:00 Marilena Ianculescu, Ovidiu Bica, Alexandru Balog and Irina Cristescu
SMART CITIZEN – A PARTICIPATORY CO-CREATOR FOR ENHANCING ONLINE PUBLIC SERVICES
12:00-12:15 Marilena Ianculescu, Lidia Bajanaru, Ion Alexandru Marinescu and Ciprian Dobre
INTELLIGENT SOLUTIONS - BASED FRAMEWORK FOR DIGITAL PUBLIC SERVICES. A CASE STUDY FOR SMART TRANSPORTATION
12:15-12:30 Diana-Andreea Arsene, Bogdan-Ionut Pahontu and Valentin-Alexandru Vladuta
MODELING ECONOMIC INFLUENCE ON TECHNICAL DECISIONS IN URBAN, IOT-BASED WATER MANAGEMENT SYSTEMS
12:30-12:45 Hakkı Ilgin, Ahmet Akbulut and Aykut Kalaycıoğlu
IMAGE AND VIDEO COMPRESSION ARTIFACT REDUCTION AT LOW BIT RATES USING LOCAL COSINE TRANSFORM IN CONJUNCTION WITH SIGNIFICANCE MAP CODING
12:45-13:00 Miruna Elena Trufasila and Petre Anghelescu
BIOMETRIC SYSTEM BASED ON FACIAL RECOGNITION
13:00-13:15 Ioan Alexandru Bratosin, Ionel-Bujorel Păvăloiu, Andrei Vasilăţeanu, Diana Gavajiuc, George Drăgoi and Nicolae Goga
PAIN RELIEF USING VIRTUAL REALITY
13:15-13:30 Cristian Mocanu and George Suciu
AUTOMATIC RECOGNITION OF HAND GESTURES
13:30-13:45 Loredana Chiva and George Suciu
NUMBER-PLATE RECOGNITION AND EXAMINATION OF REQUIREMENTS FOR PUBLIC ROMANIAN ROADS USAGE

June 28, 11:30-14:00, Control, robotics and mechatronics room D

Chairs: Ibrahim Sefa, Robert Beloiu, Ionel Bostan

11:30-11:45 Ekrem Yavuz, Yavuz Şenol, Merih Özçelik and Hüseyin Aydın
DESIGN OF A STRING-ENCODER AND IMU BASED 6D POSE MEASUREMENT SYSTEM
11:45-12:00 Ibrahim Sefa and Cihan Aydin
FPGA IMPLEMENTATION OF MULTICHANNEL FIR FILTERS
12:00-12:15 Hadeer Ahmed, Gehad Alkady, Hassan Halawa, Ramez Daoud, Hassanien Amer, Ihab Adly, Tarek Refaat and Manar Shaker
RELIABLE FPGA-BASED CAMERA SENSOR FOR NCS

12:15-12:30 Mehmet Karahan and Cosku Kasnakoglu
MODELING AND SIMULATION OF QUADROTOR UAV USING PID
CONTROLLER
12:30-12:45 Cristian Patrascioiu and Sinziana Marasescu
MODELLING AND CONTROL OF PAPER DRYING PLANT
12:45-13:00 Kareem Alansary, Ramez Daoud, Hassanein Amer and Hany Elsayed
NETWORKED CONTROL SYSTEM ARCHITECTURE FOR AUTONOMOUS
UNDERWATER VEHICLES WITH REDUNDANT SENSORS
13:00-13:15 Tudor - George Alexandru and Cristina Pupaza
AN APPROACH FOR ESTIMATING THE TOTAL HEAT TRANSFER RATES IN
EMBEDDED SYSTEMS
13:15-13:30 Manuella Kadar and Daniela Onita
A DEEP CNN FOR IMAGE ANALYTICS IN AUTOMATED MANUFACTURING
PROCESS CONTROL
13:30-13:45 Stan Alexandru-Calin and Oprea Mihaela
A CASE STUDY OF MULTI-ROBOT SYSTEMS COORDINATION USING PSO
SIMULATED IN WEBOTS

June 28, 11:30-14.00, Workshop IWTOTC
room E

Chairs: Maria Pescaru, Stan Maria Magdalena

11:30-11:45 Ufuoma Apoki and Gloria Crisan
EMPLOYING SOFTWARE AGENTS AND CONSTRUCTIVISM TO MAKE
MASSIVE OPEN ONLINE COURSES MORE STUDENT-ORIENTED
11:45-12:00 Claudiu Langa, Sofia-Loredana Tudor, Adriana-Nicoleta Lazăr and
Emanuel Soare
A COMPARATIVE ANALISIS OF STAFF TRAINING PROGRAMMES
12:00-12:15 Alexandru Mărchidan
MORE TECHNOLOGIZED IS NOT MORE EDUCATED
12:15-12:30 Elena Popescu and Tudorel Popescu
NONVERBAL CUMMUNICATION IN JOB INTERVIEWES. A CASE STUDY
ON LOCAL ORGANISATIONS
12:30-12:45 Florin Stoica
TENDENCY OF REMOVAL OF THE MEDIA FROM OFFICIAL
COMMUNICATION OF PUBLIC INSTITUTIONS
12:45-13:00 Ioana Dumitru
THE ROLE OF EDUCATION IN THE DEVELOPMENT OF PSYCHO-
BEHAVIORAL SANOGENESIS MODELS IN CONTEMPORARY SOCIETY
13:00-13:15 Maria Pescaru and Cristina Maria Pescaru
IMPLEMENTATION OF THE EUROPEAN QUALITY ASSESSMENT
FRAMEWORK IN THE ROMANIAN EDUCATION SYSTEM
13:15-13:30 Maria Pescaru
THE NATIONAL QUALITY ASSURANCE SYSTEM IN ROMANIA
13:30-13:45 Sofia-Loredana Tudor
THE COMPETENCE OF LEARNING TO LEARN– AN INDICATOR OF
EMPLOYABILITY IN THE LABOR MARKET

13:45-14:00 Stan Maria Magdalena and Plaiasu Adriana Gabriela
DETERMINANTS OF LEARNING MOTIVATION FROM THE PERSPECTIVE
OF SELF DETERMINATION THEORY

June 28, 11:30-14:00, Workshop Renewable Hybrid Power System, room F

Chairs: Florentina M. Enescu, Raboaca Maria Simona, Marian Raducu, Nicu Bizon

11:30-11:45 Zeynep Bala Duranay and Hanifi Guldemir
MODELLING AND SIMULATION OF A SINGLE PHASE STANDALONE PV
SYSTEM
11:45-12:00 Saloua Marhraoui
FUZZY SLIDING MODE HYBRID CONTROL MPPT STRATEGY AND PI
CONTROL AS A CONTROLLER FOR A BATTERY INTEGRATED WITH PV
SYSTEM
12:00-12:15 Onur Kırcıoğlu, Murat Ünlü and Sabri Çamur
THE PSO BASED GLOBAL MAXIMUM POWER POINT TRACKER
12:15-12:30 Slim Tnani
HYBRID SYSTEMS FOR ELECTRICAL GENERATION WITH ENERGY
STORAGE
12:30-12:45 Ovidiu Ivanov, Bogdan Constantin Neagu, Gheorghe Grigoras and
Mihai Gavrilas
CAPACITOR BANKS PLACEMENT OPTIMIZATION IMPROVEMENT USING
THE SPERM WHALE ALGORITHM
12:45-13:00 Florentina Magda Enescu, Nicu Bizon and Cosmin Stirbu
SMART ENERGY GRIDS USED IN IRRIGATION SYSTEMS USING THE
BLOCKCHAIN APPLICATIONS
13:00-13:15 Florentina Magda Enescu, Nicu Bizon and Valeriu Manuel Ionescu
USE OF BLOCKCHAIN TECHNOLOGY IN IRRIGATION SYSTEMS OF
SMALL FARMERS' ASSOCIATION
13:15-13:30 Marian Raducu
A SIMPLE METHOD OF MODELING THE PV CELL FROM A SINGLE
CURRENT-VOLTAGE CURVE
13:30-13:45 Dorin Leţ, Bogdan Ionuţ Tene, Adela-Gabriela Husu, Mihail-Florin Stan
and Laurentiu Marian Stancu
FEASIBILITY OF A MICRO GRID SCALE UP AT CAMPUS LEVEL - CASE
STUDY
13:45-14.00 Lavric Alexandru, Raboaca Maria Simona, Filote Constantin and
Nasture Ana Maria
PROTON-EXCHANGE MEMBRANE FUEL CELLS: THE RENEWABLE
ENERGY ERA

Chairs: Mihai Oproescu

11:30-11:40 İbrahim Tozlu, Şule Gündüz Öğüdücü, Atılberk Çelebi, Sacide Kalaycı and Seçil Arslan
ACCELERATING BALANCE SHEET ADJUSTMENT PROCESS IN COMMERCIAL LOAN APPLICATIONS WITH MACHINE LEARNING METHODS
11:40-11:50 Meina Song, Zhongfu Chen, Peiqing Niu and Haihong E
BUILDING END-TO-END TASK-ORIENTED DIALOGUE SYSTEMS VIA CNNS AND ATTENTION MECHANISMS
11:50-12:00 Saja Al-Dabet and Shaidah Jusoh
USABILITY EVALUATION OF IPHONE BUILT-IN APPLICATIONS
12:00-12:10 Aimen Shahid, Mahroo Ali, Mariam Eijaz, Dr.Sidra Minhas and Nosheen Sabahat
SHIELD: AN INTELLIGENT AND AFFORDABLE SOLUTION FOR HOME SECURITY
12:10-12:20 Loubna El Amrani, Tomader Mazri and Nabil Hmina
PROPAGATION MODELS APPROACH FOR HUMAN SPECIFIC ABSORPTION RATE STUDY
12:20-12:30 Alexandru Lavric, Valentin Popa, Cristina David and Cristian Costel Paval
KERATOCONUS DETECTION ALGORITHM USING CONVOLUTIONAL NEURAL NETWORKS: CHALLENGES
12:30-12:40 Lucian Trifina, Daniela Tarniceriu and Ana-Mirela Rotopanescu
NONLINEARITY DEGREE FOR CPP, 4-PP, AND 5-PP INTERLEAVERS FOR TURBO CODES
12:40-12:50 Delia Duminica
PROFESSIONAL TRAINING OF STAFF FROM ORGANIZATIONS THROUGH THE GROW METHOD
12:50-13:00 Aurel Mihail Titu and Alexandru Stanciu
HUMAN AND ARTIFICIAL INTELLIGENCE: THE PARTNERSHIP THAT IMPARTS HOPE
13:00-13:10 Olga Untila Kaplan
DETERMINANTS OF LEARNING MOTIVATION FROM THE PERSPECTIVE OF SELF DETERMINATION THEORY
13:10-13:20 Soraya Chalard and Sukree Sinthupinyo
CONSTRUCTING KEYWORD PROPAGATION MAP OF FACEBOOK PAGES
13:20-13:30 Doina Banciu, Ionut Petre and Mihail Dumitrache
ELECTRONIC SYSTEM FOR ASSESSING AND ANALYSING DIGITAL COMPETENCES IN THE CONTEXT OF KNOWLEDGE SOCIETY

June 28, 11:30-14:00, Poster session II
Poster Hall

Chairs: Luminita-Mirela Constantinescu, Bogdan Cioc, Nicu Bizon

Bogdan-Adrian Enache, Luminita-Mirela Constantinescu and Marius-Ciprian Larco
REMOTE CONTROL FOR SMART HOME APPLICATIONS

June 28, 15:30-17:00, **ECAI Afternoon sessions**
June 28, 15:30-17:00, ECAI Poster and E-sessions
June 28, 15:30-17:00, ECAI workshops
June 28, 17:00-17:30 Coffee break
June 28, 17:30-18:00, ECAI Closing Solemnity
June 28, 15:30-17:00, Workshop IWSSS
room A

Chairs: Emil Pricop, Octavian Ionescu

15:30-15:45 Yanis Beqqali, Hamza Es Sadik, Francine Herrmann and Fabrice Sabatier
MALWARE'S DOUBLE ANTI ANALYSIS (DAA) ANALYSIS METHODOLOGY
15:45-16:00 Hidenobu Oguri
A METHOD OF DECREASING CONNECTABILITY OF DERIVED DATA, USING LOCAL DIFFERENTIAL PRIVACY
16:00-16:15 Nicolas Ferry, Thomas Hackenheimer, Francine Herrmann and Alexandre Tourette
METHODOLOGY OF DARK WEB MONITORING
16:15-16:30 Balduino Estison Mugilila Camachi, Dan Popescu and Loretta Ichim
SMART GRID PROTECTION USING MAC VALUE ANALYSIS
16:30-16:40 Terézia Mézešová, Pavol Sokol and Tomáš Bajtoš
EVALUATION OF ATTACKER SKILL LEVEL FOR MULTI-STAGE ATTACKS
16:40-16:50 Laurenţiu Gabriel Militaru, Dan Popescu and Loretta Ichim
SPECTRUM OPTIONS AND WIRELESS COMMUNICATION SOLUTIONS FOR DRONES
16:50-17:00 Octavian Ionescu, Viorel Dumitru, Emil Pricop, Octavian Buiu, Cornel Cobianu, Mihai Raneti, Stefan Pircalabu and Costin Marica
ON THE DEVELOPMENT OF A ROBUST CYBER SECURITY SYSTEM FOR INTERNET OF THINGS DEVICES

June 28, 15:30-17:00, Workshop OCSC
room B
Chairs: Sorin Puscoci, Ioan Lita, Daniel Visan, Radu Dragomir

15:30-15:45 Niculina Draghici
THE EFFECT OF BOUNDARY CONDITIONS AND MATERIAL PARAMETERS ON THE TEMPERATURE OF HIGH POWER LEDS
15:45-16:00 Ana Barar, Alina Elena Marcu, Paul Schiopu and Marian Vladescu
DESIGN OF AN LED-BASED SOLAR SPECTRUM SIMULATOR FOR PORPHYRIN DYE-SENSITIZED SOLAR CELL CHARACTERIZATION
16:00-16:15 Aurelian Costea, Paul Schiopu and Marian Vladescu
TUNABLE SELECTIVE PLASMONIC ANGLE-LARGE METAMATERIAL

ABSORBER
16:15-16:30 Cornel Barbut
NEXT LEVEL FOR FIBER OPTIC PROJECTS DEPLOYMENTS

June 28, 15:30-17:00, Workshop IWAE + RAFNCT room C

Chairs: Zdzislaw Polkowski, Pradeep Kumar Singh

15:30-15:45 Pradeep Kumar Singh, Yashwant Singh, Jahangir Ahmad Lone, Zdzislaw Polkowski, Sudeep Tanwar and Sudhanshu Tyagi
DEPLOYMENT AND COVERAGE IN WIRELESS SENSOR NETWORK: A PERSPECTIVE
15:45-16:00 Pradeep Kumar Singh, Zdzislaw Polkowski, Jayneel Vora, Sudeep Tanwar, Sudhanshu Tyagi and Yashwant Singh
MACHINE LEARNING-BASED SOFTWARE EFFORT ESTIMATION : AN ANALYSIS
16:00-16:15 Muhammed Ihsan Husni
PERFORMANCE OF VARIOUS ALGORITHMS TO REDUCE THE NUMBER OF TRANSMITTED PACKETS BY SENSOR NODES IN WIRELESS SENSOR NETWORK
16:15-16:30 Thitimanan Damrongsakmethee and Victor-Emil Neagoe
A NEURAL NARX APPROACH FOR EXCHANGE RATE FORECASTING
16:30-16:45 Vasile-Gabriel Iana, Cristian Monea and Mihai Oproescu
THE USE OF THE CLONAL SELECTION ALGORITHM FOR NQR SIGNAL DETECTION OPTIMIZATION
16:45-17:00 Mihai Oproescu, Vasile-Gabriel Iana and Cristian Monea
ICATION OF GENETIC ALGORITHM FOR OPTIMIZATION OF NQR SIGNAL DETECTION

June 28, 15:30-17:00, Poster session IWTOTC "Poster Hall

Chairs: Sofia-Loredana Tudor, Georgiana Dumitru

Jianu Eugenia, Mihai Oproescu and Dumitru Tudosoiu
ROMANIAN PRE-UNIVERSITY EDUCATION FROM THE PERSPECTIVE OF SCHOOL MANAGEMENT
Mihai Oproescu, Eugenia Jianu, Ionut Bulgaru and Delia Duminica
SCHOOL AND PROFESSIONAL ORIENTATION TO ADOLESCENTS
Georgiana Drăghici
MEDIA, PUBLIC OPINION AND THE CONTEMPORARY COMMUNICATION
Mihai Oproescu, Vasile-Gabriel Iana, Eugenia Jianu and Mihaela-Roxana Anghel
E-LEARNING IN COMPUTER-ASSISTED TRAINING, ADVANTAGES, DISADVANTAGES AND FUTURE TRENDS
Georgiana Dumitru and Ana Apetroaiei
FACTORS INFLUENCING THE SCHOOL AND PROFESSIONAL ORIENTATION OF HIGH SCHOOL STUDENTS IN ARGES COUNTY

Georgiana Dumitru
THE TEACHERS'NEED FOR TRAINING IN ORDER TO HELP THEIR
STUDENTS THROUGH EDUCATIONAL COUNSELING
Maria Claudia Ionescu and Andreea Stan
THE COMPETENCE OF LEARNING TO LEARN– AN INDICATOR OF
EMPLOYABILITY IN THE LABOR MARKET
Florin Tecau and Cristina Tecău
THE ENGINEER PROFESSOR, A NEW GULLIVER TRAVELLING THROUGH
THE UNIVERSE OF THE METHODS
Maria Claudia Ionescu and Lucia Neagoe
JOB PERCEPTIONS AND TRAINING NEEDS OF SOCIAL WORKERS FROM
RURAL AREAS - COMPARATIVE RESEARCH IN SEVEN EUROPEAN
COUNTRIES
Cîrstea Petre Remus
THE FULLDOME DOCUMENTARY FILM IN THE CONTEMPORARY MEDIA
AND EDUCATIONAL CONTEXT -GENERAL CONSIDERATIONS

June 28, 15:30-17:00, Poster session III
"Poster Hall

Chairs: Mihaela Teodorescu, Adrian Iordachescu, Nicu Bizon

Enescu Alexandru, Andrei Horia, Diaconu Emil and Ion Valentin
NUMERICAL METHOD FOR MODELING THE INPUT-OUTPUT
CHARACTERISTIC IN A COGENERATION POWER PLANT
Marius Alexandru Dinca, Nicoleta Angelescu, Radu Dragomir, Dan Constantin
Puchianu and Ion Caciula
DIGITAL MEDIA DISTRIBUTION PLATFORM USING AMAZON WEB
SERVICES
Mironela Pirnau, Radu Mircea Carp Ciocardia, Claudiu Pirnau, Liviu Daniel
Ghiculescu and Niculae Marinescu
THE IDENTIFICATION OF INTELLIGENT INTERACTIONS BETWEEN
EDUCATION AND LABOUR FORCE MARKET
Daniel Marius Marcu, Florin Gabriel Popescu, Brana-Liliana Samoila, Razvan Ioan
Slusariuc and Titu Niculescu
PERFORMANCE IMPROVEMENT OF A PHOTOVOLTAIC SYSTEM USING A
PROGRAMMABLE MICROCONTROLLER
Gheorghe Serban and Florentina Magda Enescu
DYNAMIC WEB FOR EFFICIENT EDUCATIONAL MANAGEMENT
Florentina Magda Enescu, Gheorghe Serban and Mariana Jurian
WEB PLATFORM FOR E-LEARNING
Valeriu Manuel Ionescu and Elena-Carmen Tentea
ONLINE QUIZ IMPLEMENTATION USING BLOCK CHAIN TECHNOLOGY
FOR RESULT TEMPERING PREVENTION
Ovidiu Constantin Novac, Iulian-Ioan Mureşan, Mihaela Cornelia Novac, Mircea
Petru Ursu, Mihai Oproescu and Camelia Maria Dindelegan
DEVELOPMENT OF A WEATHER MOBILE APPLICATION IN ANDROID

STUDIO OPERATING SYSTEM
Eugen Pop and Sorin Puscoci
OVERVIEW OF E-SERVICES PROVIDING IN SMART CITIES
Ovidiu Constantin Novac, Iulian-Ioan Mureşan, Mihaela Cornelia Novac, Mihai
Oproescu, Cornelia Gordan and Gyöngyi Bujdosó
DEVELOPMENT OF A WEATHER APPLICATION IN ANDROID AND IOS
OPERATING SYSTEMS
Laurentiu-Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Ioan Lita and
Daniel Alexandru Visan
A SOLUTION TO IMPLEMENT GROVER QUANTUM COMPUTATION
ALGORITHM USING THE BINARY REPRESENTATION OF THE PHASE ON
THE FPGA
Ioan Lita, Daniel Alexandru Visan, Laurentiu Mihai Ionescu and Alin Gheorghita
Mazare
COLOR-BASED SORTING SYSTEM FOR AGRICULTURE APPLICATIONS
Daniel Alexandru Visan, Mariana Jurian, Ioan Lita, Laurentiu Mihai Ionescu and Alin
Gheorghita Mazare
DIRECT SEQUENCE SPREAD SPECTRUM COMMUNICATION MODULE FOR
EFFICIENT WIRELESS SENSOR NETWORKS
Andrei Drumea, Robert Alexandru Dobre and Cristina Ioana Marghescu
THERMAL AND ELECTRICAL INVESTIGATION OF GRAPHENE-
ENHANCED CONDUCTIVE POLYLACTIC ACID BASED FILAMENTS FOR
3D-PRINTING
Valeriu Manuel Ionescu, Manan Patel and Drashti Hindocha
ALTERNATIVES FOR RUNNING LINUX APPLICATIONS IN WINDOWS

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

ECAI CLOSING CEREMONY

June 28, 17:30-18:00, ECAI Closing Solemnity,
Aula Magna
Closing speeches
17:30-17:40 Mihai Oprescu, Program Chair of ECAI conference
17:40-18:00 Time of closing speeches for the ECAI participants

Saturday, June 29, 2019

9:00-17:00, ECAI trip
Departure at 9.00, June 29, from Hall (conference desk).
Arrival will be at about 17.00, June 29.

Participants' departure

Sunday, June 30, 2019

Participants' departure

End of ECAI conference actions
ECAI 2019, June 27 – June 29, 2019, Timetable and Program

Date	Time	Session or activity	Location
June 27	20:30-22:00	**Participants' arrival**	
June 27	8:00-8:50	**Authors Registration**	"CD" Poster Hall
	9:00-9:45	**ECAI Opening Ceremony**	Aula Magna
	9:45-12:15	**ECAI KEYNOTE LECTURES I**	Aula Magna
	11:05-11:35	**Coffee break**	Poster Hall
	12:15-14.00	**Brokerage events**	Poster Hall
	14:00-15.30	**Lunch**	"R" – ECAI restaurant
		ECAI Afternoon sessions	
	15:30-17:00	**Bio-medical applications**	Room A
		Electrical engineering applications	Room B
		Electronic Circuits & Equipment - I	Room C
		Software & Computer Applications - I	Room D
		Communication	Room E
		Poster session I	Poster Hall
		E-session	E – session room
	17:00-17:30	**Coffee break & Brokerage events**	Poster Hall
	19.00-21.00	**ECAI Dinner**	"R" – ECAI restaurant
June 28	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
		ECAI morning sessions	
	11:30-14:00	**Communication session and the Round Table: 5G and Machine To Machine (M2M) Cyber Security Challenges for the Automotive Industry**	Room A
		Expert systems & Artificial Intelligence	Room B
		Software & Computer Applications - II	Room C
		Control, robotics and mechatronics	Room D
		Workshop IWTOTC	Room E
		Workshop on Renewable Hybrid Power System (REW HPS)	Room F
	13:00-14:00	**Poster session II**	Poster Hall
	13:00-14:00	**E-session II**	E – session room
	14:00-15:30	**Lunch**	"R" – ECAI restaurant
		ECAI Afternoon sessions	
	15:30-17:00	**Workshop IWSSS**	Room A
		Workshop OCSC	Room B
		Workshop IWAE + RAFNCT	Room C
		Poster session IWTOTC	Poster Hall
		Poster session III	E – session room
	17:00-17:30	**Coffee Break& Brokerage events**	Poster Hall
	17:30-18:00	**ECAI Closing Solemnity**	Room
	18.00-20.00	**ECAI Dinner**	"R" – ECAI restaurant
	20:00-23:00	**Free time (shopping & sightseeing)**	
June 29	9:00 – 17:00	**ECAI Trip** Departure at 9.00, June 29, from parking; Arrival will be at about 17.00.	
June 29		**Participants departure**	

International Workshop in Systems Safety & Security – IWSSS; International Workshop in Applied Electronics – IWAE; International Workshop in Trends and Opportunities in Teaching Career – IWTOTC; International Workshop in Optical Communication Systems Connectivity OCSC; REW HPS - Workshop on Renewable Hybrid Power System; RAFNCT - Research Advancement in Forthcoming Networking and Communication Technologies ; "R" – ECAI restaurant

11th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE

ECAI 2019, June 27 – June 29, 2019

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The selected papers (up to 10%) will be sent to the appropriate IEEE IAS journals for publishing, after those papers will be further reviewed as normal.

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