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DEPARTAMENTUL
ELTH
ELECTROTEHNICA

International Symposium on Fundamentals of Electrical Engineering

University POLITEHNICA of Bucharest, Romania, June 30 - July 2, 2016

*Remembering the birth of Prof. ALEXANDRU TIMOTIN,
member of Romanian Academy, 90 years ago*



BRIEF PROGRAMME

Thursday, June 30, 2016

- 8⁰⁰ - 9³⁰ **Registration** ("R" building hall, 1st floor)
- 9³⁰ - 10¹⁵ **Opening Session** ("R" building, ROOM A, 2nd floor)
- 10¹⁵ - 10³⁰ **Coffee Break** ("R" building hall)
- 10³⁰ - 12⁰⁰ **ASTR Round Table** ("R" building, ROOM A, 2nd floor)
- 10³⁰ - 12⁰⁰ **Poster Session** ("R" building hall)
- 12⁰⁰ - 13³⁰ **Oral Sessions** ("R" building, ROOM A, 2nd floor; "AN" building, ROOMS B and C, ground floor; UPB Library, ROOMS D and E, 2nd and 3rd floors)
- 13³⁰ - 14³⁰ **Lunch** (UPB Library, 4th floor)
- 14³⁰ - 16⁰⁰ **Poster Session** (UPB Library, 3rd floor)
- 16⁰⁰ - 16¹⁵ **Coffee Break** (UPB Library, 3rd floor)
- 16¹⁵ - 17⁴⁵ **Oral Sessions** (UPB Library, ROOMS E and F, 3rd floor, ROOMS G, H and I, 4th floor)
- 18⁰⁰ - 21³⁰ **Gala dinner** (UPB Library, 4th floor)

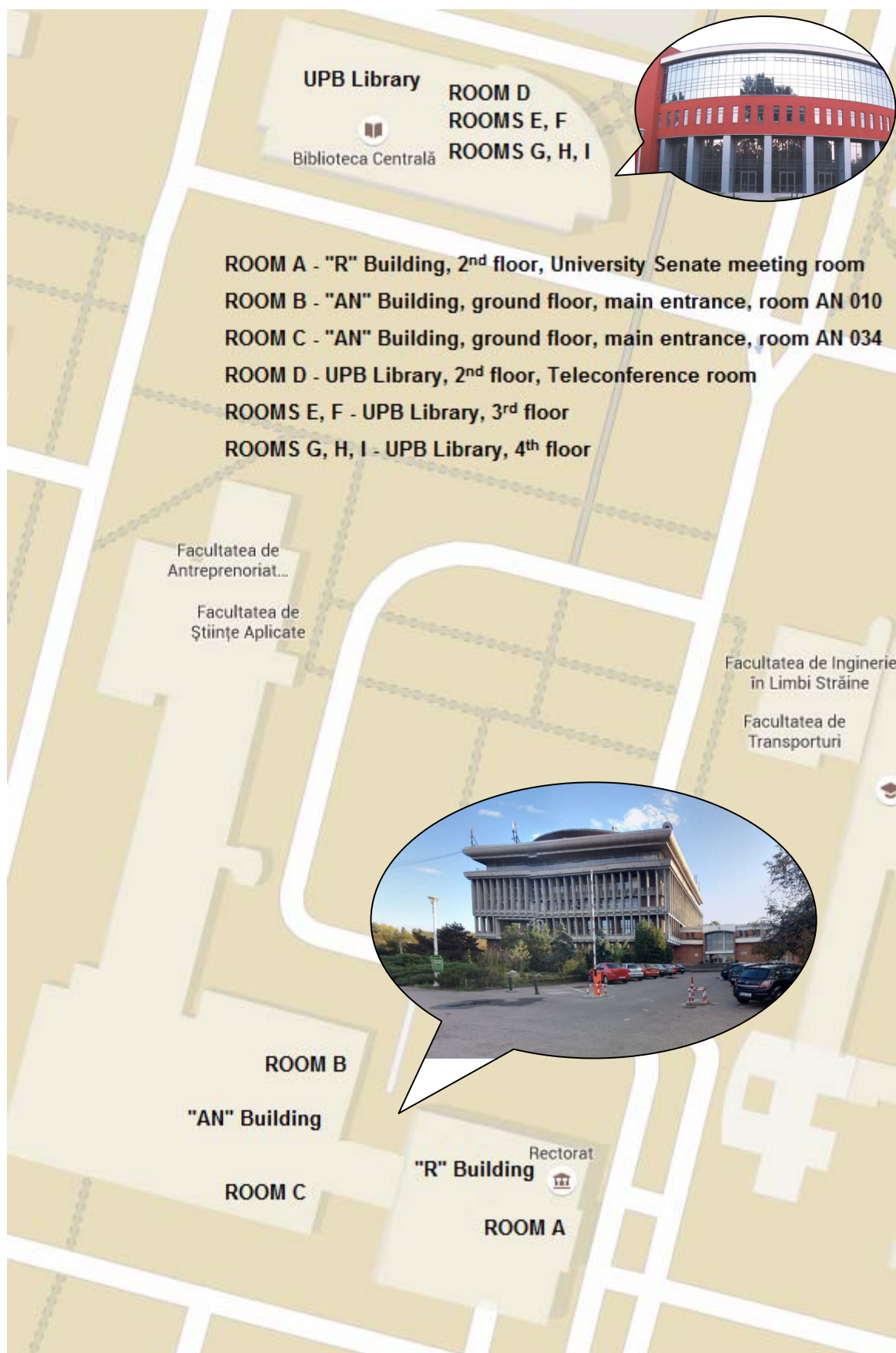
Friday, July 1, 2016

- 9⁰⁰ - 9⁴⁵ **Registration** (UPB Library, 3rd floor)
- 9⁴⁵ - 10⁰⁰ **Coffee Break** (UPB Library, 3rd floor)
- 10⁰⁰ - 12³⁰ **Poster Session** (UPB Library, 3rd floor)
- 10⁰⁰ - 14⁰⁰ **Oral Sessions** (UPB Library, ROOM D, 2nd floor, ROOMS E and F, 3rd floor, ROOM G, 4th floor)
- 14⁰⁰ - 15⁰⁰ **Lunch** (UPB Library, 4th floor)
- 15⁰⁰ - 16³⁰ **Oral Sessions** (UPB Library, ROOM E, 3rd floor)

Closing Session and Concluding Remarks



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PROGRAMME TIMELINE

Thursday, June 30, 2016

8⁰⁰ - 9³⁰ REGISTRATION ("R" building hall, 1st floor)

9³⁰ - 10¹⁵ OPENING SESSION ("R" building, ROOM A, 2nd floor) – welcome address.

10¹⁵ - 10³⁰ COFFEE BREAK ("R" building hall)

10³⁰ - 12⁰⁰ ROUND TABLE dedicated to the remembering of the birth of **Prof. ALEXANDRU TIMOTIN**, MEMBER OF THE ROMANIAN ACADEMY, 90 years ago, organized in cooperation with the ROMANIAN ACADEMY OF TECHNICAL SCIENCES ("R" building, ROOM A, 2nd floor)

Chairs: **prof. N. Golovanov, prof. I. F. Hăntilă**

10³⁰ - 12⁰⁰ POSTER SESSION ("R" building hall)

Chairs: **prof. D.O. Micu, prof. M. Marinescu**

ID	Author(s)	Paper Title
267	Kazimierz Adamiak	Numerical Models in Simulating Corona and Dielectric Barrier Discharges
366	Marlene Marinescu, Nicolae Marinescu, Sven Kuhn	Optimization of magnetic circuits for loudspeakers 1970 and now
296	Frederik Soetaert, Guillaume Crevecoeur, Luc Dupre	Coupled electrical-thermal model for monopolar and bipolar radiofrequency liver tumor ablation
301	Iulian Hurezeanu, Claudiu I. Nicola, Dumitru Sacerdotianu, Marcel Nicola, Ancuta M. Aciu, Maria C. Nitu	Temperature Control and Monitoring System for Power Transformer Windings Using Fiber Optic Sensors
314	Viorel Miron Alexe	Comparative Study Regarding Measurements of Different AC Current Sensors
322	Sultan Can, Asim Egemen Yilmaz	Bandwidth Enhancement of an Horn Antenna at X-band by Using Metamaterials
329	Radu Rădescu	Alternative Algorithms Involving Alphabetical Coding and Limited Length Encoding in Lossless Data Compression of Text Files
378	Marouane El Azzaoui, Hassane Mahmoudi, Badre Bossoufi, Madiha El Ghamrasni	Emulation of Wind Conversion Chain Equipped
405	Marouane El Azzaoui, Hassane Mahmoudi, Badre Bossoufi, Madiha El Ghamrasni	Comparative Study of the Sliding Mode and Backstepping control in Power Control of a Doubly Fed Induction Generator
281	Alexandru Buturuga, Dan Stoichescu, Rodica Constantinescu	Universal system for automation of small tasks
313	Ahmet Aydogan, Funda Akleman, Serkan Yildiz	Dielectric Loaded Waveguide Filter Design
426	Monica Moraru, Alexandru Tanasie	Goelectric Tomography and Electrical Methods, with Applicability in the Strategy for Identifying Contaminated Area



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ID	Author(s)	Paper Title
311	Ciprian I. Dumitrescu, Mihai O. Popescu	Characteristics of UPS transient response

12⁰⁰ - 13³⁰ ORAL SESSIONS ("R" building, ROOM A, 2nd floor; "AN" building, ROOMS B and C, ground floor; UPB Library, ROOMS D and E, 2nd and 3rd floors)

Circuit and Systems 1 – ROOM A (THURSDAY, JUNE 30, 2016, 12⁰⁰ - 13³⁰)

Chairs: **prof. S. Yarman, prof. Mircea Bodea**

ID	Schedule	Author(s)	Paper Title
342	12 ⁰⁰ - 12 ³⁰ (invited paper)	Serkan YILDIZ, Ahmet Aksen, Siddik Yarman	Multiband Matching Network Design via Transformation based Real Frequency Approach
282	12 ³⁰ - 12 ⁵⁰	Natthorn Chuayphan, Banlue Srisuchinwong	A New Algebraically Simple Five-Minimum-Term Approach to an Existing FDNR-Based Chaotic Circuit and Its New Homoclinic Orbit
398	12 ⁵⁰ - 13 ¹⁰	Cosmin Alexandru Iordache, Cristian Grecu, Mircea Bodea	Variable regulated high voltage power supply
409	13 ¹⁰ - 13 ³⁰	Lucian Mandache, Andrei Marinescu, Mihai Iordache	On feasibility and optimization of WiTricity technology for implantable medical devices

Electrical Machines and Drives 1 – ROOM B (THURSDAY, JUNE 30, 2016, 12⁰⁰ - 13³⁰)

Chairs: **dr. M. C. Nitu, dr. S. Kula**

ID	Schedule	Author(s)	Paper Title
308	12 ⁰⁰ - 12 ³⁰ (invited paper)	Sebastian Kula, Sorin Cosman	Switched Reluctance Motor Model Implemented on PXI FPGA Target
254	12 ³⁰ - 12 ⁵⁰	Said Legrioui, S.E. Rezgui, H. Benalla	Implementation of sensorless SM-DTC with conjoint online identification of stator resistance and rotor time constant based on MRAS
253	12 ⁵⁰ - 13 ¹⁰	Alexandra Ciobanu, F. Munteanu, C. Nemes, D. Astanei	Availability Model of Wind and Solution to Immunise the Generators Against Short Time Perturbations
328	13 ¹⁰ - 13 ³⁰	Maria Cristina Nitu, Claudiu Ionel Nicola, D. Popa, V. Voicu, M. Duta	Lightning Impulse Type Overvoltage Transmitted Between the Windings of The Transformer

Power Electronics 1 – ROOM C (THURSDAY, JUNE 30, 2016, 12⁰⁰ - 13³⁰)

Chairs: **prof. Y. Aslan, prof. M. I. Neaca**

ID	Schedule	Author(s)	Paper Title
292	12 ⁰⁰ - 12 ²⁰	Chih-Chiang Hua, Yi-Hsiung Fang, Yen-Liang Chen	A charge equalizer of multi transformer type based on AC-link technique
299	12 ²⁰ - 12 ⁴⁰	Mitica Iustinian Neaca, Andreea Maria Neaca	Determination of the Power Loss in Inverters which Supplies a BLDC Motor
353	12 ⁴⁰ - 13 ⁰⁰	Y. Doğrul, Y. Aslan	Comparison of Fuzzy-PID Controlled Single Phase Static Reactive Power Compensator with Different Membership Functions
337	13 ⁰⁰ - 13 ³⁰ (invited paper)	Rahmi İlker Kayaalp, Tuğçe Demirdelen, Mehmet Tümay	A Novel Modular Multilevel Bidirectional DC-DC Converter with Dual Phase-Shift Control Method in Medium Voltage Applications



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Bioengineering – ROOM D (THURSDAY, JUNE 30, 2016, 12⁰⁰ - 13³⁰)

Chairs: **prof. Ching-Hwa Cheng, prof. A.M. Morega**

ID	Schedule	Author(s)	Paper Title
295	12 ⁰⁰ - 12 ³⁰ (invited paper)	Frederik Soetaert, Luc Dupré, Guillaume Crevecoeur	Computational analysis of the effect of superparamagnetic nanoparticle properties on bioheat transfer in magnetic nanoparticle hyperthermia
306	12 ³⁰ - 12 ⁵⁰	Maria-Lavinia Iordache, Marilena Stănculescu, Mihai Iordache, Dragoș Niculae, Victor Bucată	Parameter Identification of Magnetic Coupled Resonators in Power Wireless Transfer Systems
338	12 ⁵⁰ - 13 ¹⁰	Ching-Hwa Cheng, Peng- Hsiung Lin	Implementing a Wireless Four-Camera Panoramic-Vision with Lesion-Tracking for in-Vivo Laser Treatment Microscopic Surgery
277	13 ¹⁰ - 13 ³⁰	N. Goga, A. Vasilateanu, M. N. Mihailescu, L. Guta, A. Molnar, I. Bocicor, L. Bolea, D. C. Stoica, B. Pavaloiu	Evaluating indoor localization using WiFi for patient tracking

Materials– ROOM E (THURSDAY, JUNE 30, 2016, 12⁰⁰ - 13³⁰)

Chairs: **prof. Horia Gavrilă, dr. George Paltanea**

ID	Schedule	Author(s)	Paper Title
363	12 ⁰⁰ - 12 ³⁰ (invited paper)	Bogdan Dumitrescu, Sorin Adrian Ciureanu, Horia Gavrila	Magnetic properties of nanocrystalline films and amorphous co-rich alloys
320	12 ³⁰ - 12 ⁵⁰	Sultan Can, Asim Egemen Yilmaz	Conformal Textile-Based Single Negative Metamaterials for ISM-Band Applications
325	12 ⁵⁰ - 13 ¹⁰	L'Hocine Mouas, Hassane Mohellebi, Samy Hassani Ould Ouali	Modeling of Non linear Electromagnetic Phenomena of Ship's magnetism
280	13 ¹⁰ - 13 ³⁰	Gheorghe Paltanea, Veronica (Manescu) Paltanea, Horia Gavrila, Ioan Peter, Dorina Popovici	Magnetic Property Analysis in Non-Oriented Silicon Iron Steels Cut through Water Jet Technology

13³⁰ - 14³⁰ LUNCH (UPB Library, 4th floor)

14³⁰ - 16⁰⁰ POSTER SESSION (UPB Library, 3rd floor)

Chairs: **D.D. Micu, M. Vasilescu**

ID	Author(s)	Paper Title
252	Zhen Hu, Xinran Li	The degree of coupling analysis method based on current injection
391	Ionel-Bujorel Pavaloiu, Andrei Vasilateanu, Nicolae Goga, Iuliana Marin, Andrei Ungar, Ion Patrascu	Teeth Labeling from CBCT Data using the Circular Hough Transform
339	Yu-Hsiang Cheng, Ching-Hwa Cheng	Potential Early-Stage Cancer Identification Technique During Endoscopic Examination



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ID	Author(s)	Paper Title
352	Mohammed Abbas, Qais Kareem Al-Gayem	Design of A Micro Sensing Chip for Biochemical Applications
420	Iosif Vasile Nemoianu, Mihai Maricar, Radu Mircea Ciuceanu	Active and Reactive Power Flow in Distorting Three-Phase Unbalanced Circuits Without Neutral
256	Badre Bossoufi, Silviu Ionita, Luminita Constantinescu, Madiha El Ghamrasni	Backstepping Control of DFIG-Generators for Wind Turbines Variable-Speed
270	Yao-Ching Hsieh, Yu-Chun Chiu, Wei-Ting Wu	A Third-order Reaction Li-ion Battery Model
294	Gheorghe Grigoras, Bogdan-Constantin Neagu, Florina Scarlatache	Estimation of Energy Losses in Distribution Transformers Using a Fuzzy Approach
300	Bogdan C. Neagu, Gheorghe Grigoras, Florina Scarlatache	The Influence of Harmonics on Power Losses in Urban Distribution Networks
355	Sarab Jwaid AL-Chlahawi, Ammar Ghalib Al-Gizi	A Review of Multiport Converters used in Renewable Energy
356	Ahmet Aydoğan, Funda Akleman	An Approximation for Direct and Inverse Problems Related to Longitudinally Inhomogeneous Waveguides
358	Ammar Ghalib Al-Gizi, Sarab Jwaid AL-Chlahawi	Study of FLC Based MPPT in Comparison with P&O and InC for PV Systems
372	Svilen R. Rachev, Dimitrina Y. Koeva, Ivaylo D. Ivanov	Electromechanical Model and Operating Modes of High-voltage Induction Motor Electric Drive— Part I: Impact Torque and Currents
374	Svilen R. Rachev, Dimitrina Y. Koeva, Lyubomir D. Dimitrov	Electromechanical Model and Operating Modes of High-Voltage Induction Motor Electric Drive— Part II: Power Losses
436	Claudia Popescu, Ioan Florea Hantila, George Marian Vasilescu, and Mihai Maricar	Analyzing Electromagnetic Shielding of Perforated Screens

16⁰⁰ - 16¹⁵ COFFEE BREAK (UPB Library, 3rd floor)

16¹⁵ - 17⁴⁵ ORAL SESSIONS (UPB Library, ROOMS E and F, 3rd floor, ROOMS G, H and I, 4th floor)

Circuit and Systems 2 – ROOM E (THURSDAY, JUNE 30, 2016, 16¹⁵ – 17⁴⁵)
Chairs: **prof. A. Korotkov, dr. L. Teodorescu**

ID	Schedule	Author(s)	Paper Title
288	16 ¹⁵ – 16 ⁴⁵ (invited paper)	Alexander Korotkov, Dmitry V. Morozov, Johann Hauer	A two-input 8-transistor SRAM cell with enhanced noise immunity
326	16 ⁴⁵ – 17 ⁰⁵	Laurentiu Teodorescu	A Supply Method of Increasing the Lifetime of the Emission Tube in the Power Radiofrequency Transmitters
432	17 ⁰⁵ – 17 ²⁵	Mihai-Eugen Marin, Florin Constantinescu, Cătălin Brînzei, Alexandru Gheorghe	Verification of a Calibration Method for Digital to Analog Converters
385	17 ²⁵ – 17 ⁴⁵	A. S. Lup, G. Ciuprina, Ș. Sorohan, D. Isvoranu, G. Boldeiu, A. Ștefănescu	Extraction of Lumped Structural Parameters from Multiphysics Field Simulations for MEMS Switches



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Electrical Machines and Drives 2 – ROOM F (THURSDAY, JUNE 30, 2016, 16¹⁵ – 17⁴⁵)

Chairs: prof. TianHua Liu, prof. A. Craciunescu

ID	Schedule	Author(s)	Paper Title
251	16 ¹⁵ – 16 ⁴⁵ (invited paper)	Dae-Won Chung	Regenerative Energy Storage for Electric Vehicles Using Super-Capacitors
335	16 ⁴⁵ – 17 ⁰⁵	Cristina Pitorac	Estimation of the power losses of a Li-Ion battery by operation in an electric vehicle
341	17 ⁰⁵ – 17 ²⁵	TianHua Liu, Hade Saputra Haslim, Shao-Kai Tseng	Predictive Speed-loop Controller Design for a Synchronous Reluctance Drive System
361	17 ²⁵ – 17 ⁴⁵	Kamal Khandakji	Experimental Analysis of Load Variation on Inductor Alternator Operating with Variable Speed

Power Electronics 2 – ROOM G (THURSDAY, JUNE 30, 2016, 16¹⁵ – 17⁴⁵)

Chairs: prof. S. Zengin, dr. B. C. Florea

ID	Schedule	Author(s)	Paper Title
390	16 ¹⁵ – 16 ⁴⁵ (invited paper)	Sinan Zengin, Mutlu Boztepe	Loss Analysis of Trapezoid Current Modulated DCM AC/DC DAB Converter
321	16 ⁴⁵ – 17 ⁰⁵	Bogdan Cristian Florea	Petri Net Control Strategy for Series Multilevel Converters Using a State Observer
340	17 ⁰⁵ – 17 ²⁵	Tuğçe Demirdelen, Rahmi İlker Kayalap, Mehmet Tümay	Performance Investigation of High Level Modular Multilevel Inverter based Shunt Hybrid Active Power Filter
350	17 ²⁵ – 17 ⁴⁵	Tian Hua Liu, Wei Ting Chen, Jui Ling Chen, Chih-Chien Tseng	Design and Implementation for a Coin Identification System

Data Processing – ROOM H (THURSDAY, JUNE 30, 2016, 16¹⁵ – 17⁴⁵)

Chairs: dr. A. Yilmaz, prof. M. Iordache

ID	Schedule	Author(s)	Paper Title
310	16 ¹⁵ – 16 ⁴⁵ (invited paper)	H. N. Abdullah, S. S. Hreshee, A.K. Jawad	A Novel High Security Communication System Based On Chaotic Scrambling and Chaotic Masking
332	16 ⁴⁵ – 17 ⁰⁵	B. Satar, A. Akbulut, G. Yenihayat, T. Numanoglu, A. U. Yargicoglu, A. E. Yilmaz	Solving the Frequency Assignment Problem by using Meta-Heuristic Methods
377	17 ⁰⁵ – 17 ²⁵	Y. Aslan, Y. Emre Yağan	ANN Based Fault Location for Medium Voltage Distribution Lines with Remote-end Source
349	17 ²⁵ – 17 ⁴⁵	Tolga Altinoz, A. Egemen Yilmaz	Multiobjective Patch Antenna Design by using Achievement Scalarization Function with Nonlinear Programming Algorithm



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Informatics and Applied Mathematics – ROOM I (THURSDAY, JUNE 30, 2016, 16¹⁵ – 17⁴⁵)

Chairs: prof. I. D. Nicolae, prof. R. Radescu

ID	Schedule	Author(s)	Paper Title
333	16 ¹⁵ – 16 ⁴⁵ (invited paper)	Ileana Diana Nicolae, Petre Marian Nicolae	Using the Wavelet Packet Transform to Evaluate Harmonics through a Lookup Table Technique
362	16 ⁴⁵ – 17 ⁰⁵	Ruxandra Barbulescu	Simulation of electric potential in 3D neuronal axon
330	17 ⁰⁵ – 17 ²⁵	Radu Rădescu	Conceiving, Designing and Implementing a Dynamic Web Application for an Architecture and Restoration Online Management System
343	17 ²⁵ – 17 ⁴⁵	Osama Qasim Jumah Althahab	Speech Recognition based Radon-Discrete Cosine Transforms by Delta Neural Network Learning Rule

18⁰⁰ - 21³⁰ **GALA DINNER** (UPB Library, 4th floor)



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Friday, July 1, 2016

9⁰⁰ - 9⁴⁵ REGISTRATION (UPB Library, 3rd floor)

9⁴⁵ - 10⁰⁰ COFFEE BREAK (UPB Library, 3rd floor)

10⁰⁰ - 12³⁰ POSTER SESSION (UPB Library, 3rd floor)

Chairs: **prof. V. Ionita, prof. C. Munteanu**

ID	Author(s)	Paper Title
364	Dumitru Toader, Constantin Blaj, Vasile Vlad	Influence on the Magnetic Flux of the Iron Core of One-layer Power Cable
369	J. J. Mesas, Ll. Monjo, L. Sainz, J. Pedra	Cable Fault Characterization in VSC DC Systems
393	Payam Farhadi, Nesa Khandoozi, Naser Ghorbani	Practical Installation of Capacitor Banks by Exchange Market Algorithm
397	Marius Purcar, Calin Munteanu, Adrian Bojita, Alexandru Avram	A Two Layer Ground Computational Model for the Numerical Simulations of the Earthing Systems
406	V. Tsakiris, E. Enescu, A. Radulian, M. Lucaci, M. Lungu, N. Mocioi, L. Leonat, D. Cirstea, A. Caramitu	WC-Cu electrical contacts developed by Spark Plasma Sintering Process
318	M.Q. Duong, H.H. Nguyen, Sonia Leva, Marco Mussetta, G. N. Sava, S. Costinas	Performance Analysis of a 310Wp Photovoltaic Module based on Single and Double Diode Model
386	Ali Mirzadeh	Effect of Temperature Gradient on Liquid Water Distribution in PEM Fuel Cell
431	Valentin Ionita, Lucian Petrescu, Emil Cazacu	Influence of Harmonics' Initial Phases on Magnetic Losses in Non-Oriented Grains FeSi Sheets
433	K. Pirapaharan, Herman Kunsei, K.S. Senthilkumar, P.R.P Hoole, S.R.H. Hoole	A Single Beam Smart Antenna for Wireless Communication in Highly Reflective and Narrow Environment
434	K.S. Senthilkumar, K. Pirapaharan, G.A. Lakshmanan, P.R.P Hoole, S.R.H. Hoole	Accuracy of Perceptron Based Beamforming for Embedded Smart and MIMO Antennas
435	J. Fisher, P.R.P Hoole, K. Pirapaharan, S.R.H. Hoole	Parameters of Cloud to Cloud and Intra-cloud Lightning Strikes to CFC and Metallic Aircraft Structures
396	Dragos Arotaritei, Alexandru Pasarica, Cristian Rotariu	Cardiac Arrhythmia Classification using T-Complexity Measure
367	Simona Miclaus, Paul Bechet, Jolanta Karpowicz	Limb currents due to electromagnetic influence in the VHF reactive near field: the role of field polarization, exposed persons posture and anthropometric parameters
395	Milad Gheydi, Payam Farhadi, Razieh Ghafari	The Effect of Demand Response on Operation of Smart Home Energy System with Renewable Energy Resources



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10⁰⁰ - 14⁰⁰ ORAL SESSIONS (UPB Library, ROOM D, 2nd floor, ROOMS E and F, 3rd floor, ROOM G, 4th floor)

SPECIAL SESSION ON Harmonic Radar 1 – ROOM D (FRIDAY, JULY 1, 2016, 10⁰⁰ -11²⁰)

Chairs: **prof. Ram Narayanan, prof. F. Constantinescu**

ID	Schedule	Author(s)	Paper Title
418	10 ⁰⁰ -10 ²⁰	Zuo-Min Tsai, Po-Shien Li	Butler Matrix for Harmonic Radar Application
417	10 ²⁰ -10 ⁴⁰	Zuo-Min Tsai, Fan-Ren Chang, Kun-You Lin, En-Cheng Yang, Feng-Li Lian and Huei Wang	Application of Harmonic Radar on the Research of Bees' Behavior
402	10 ⁴⁰ – 11 ⁰⁰	Semyonov E. V., Loschilov A.G., Malyutin N.D., Fedorov V.N., Artishchev S.A.	Reflectometers and vector network analyzers for measuring nonlinear distortions of ultra-wideband and baseband pulse signals
279	11 ⁰⁰ – 11 ²⁰	Fedorov V.N., Malyutin N.D	Nonlinear Properties of a Strip Transmission Line Based on Carbon Fiber

SPECIAL SESSION ON Harmonic Radar 2 – ROOM D (FRIDAY, JULY 1, 2016, 11²⁰-12³⁰)

Chairs: **prof. Ram Narayanan, prof. Florin Constantinescu**

ID	Schedule	Author(s)	Paper Title
323	11 ²⁰ -11 ⁴⁰	Radomir Pavlik, Zdenek Hrubos	Cyclostationary and Correlation Based Signal Detection for Harmonic Radar Systems
1001	11 ⁴⁰ - 12 ⁰⁰	Nazifa Tahir, Graham Brooker	Millimeter Wave Band Waveguide-To-Probe Transition for Planar Harmonic Tag Antennas
1002	12 ⁰⁰ - 12 ²⁰	Nazifa Tahir, Graham Brooker	Investigation of Effects of Coax-To-Microstrip Transition on Planar Harmonic Tag Antennas
268	12 ²⁰ – 12 ⁵⁰ (invited paper)	A. F. Martone, K. I. Ranney, K. D. Sherbody, K. A. Gallagher, G. J. Mazzaro, R. M. Narayanan	An Overview of Spectrum Sensing for Harmonic Radar

Renewable energy – ROOM E (FRIDAY, JULY 1, 2016, 12³⁰ - 14⁰⁰)

Chairs: **dr. M. Boztepe, prof. M.O. Popescu**

ID	Schedule	Author(s)	Paper Title
394	12 ³⁰ - 13 ⁰⁰ (invited paper)	Milad Gheydi, Melika Hamian, Payam Farhadi, Razieh Ghafari	Comparative Assessment of Power Loss among Four Typical Wind Turbines in Distribution System
318	13 ⁰⁰ - 13 ²⁰	M.Q. Duong, H.H. Nguyen, Sonia Leva, Marco Mussetta, G. N. Sava, S. Costinas	Performance Analysis of a 310Wp Photovoltaic Module based on Single and Double Diode Model
389	13 ²⁰ - 13 ⁴⁰	Özlem Özden, Yankı Duru, Sinan Zengin, Mutlu Boztepe	Design and Implementation of Programmable PV Simulator
304	13 ⁴⁰ - 14 ⁰⁰	M. Taciuc	An experimental system for measuring the PV panel characteristics curves under real operation conditions



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Energy – ROOM F (FRIDAY, JULY 1, 2016, 12³⁰ - 14⁰⁰)

Chairs: **prof. J.J. Mesas, prof. E. Helerea**

ID	Schedule	Author(s)	Paper Title
401	12 ³⁰ - 13 ⁰⁰ (invited paper)	Levente Czumbil, Dan Doru Micu, Denisa Stet, Andrei Ceclan	A Neural Network Approach for the Inductive Coupling between Overhead Power Lines and Nearby Metallic Pipelines
348	13 ⁰⁰ - 13 ²⁰	Gabriel Oprea, Horia Andrei	Power Quality Analysis of Industrial Company Based on Data Acquisition System, Numerical Algorithms and Compensation Results
286	13 ²⁰ - 13 ⁴⁰	Lambert Pierrat, Elena Helerea	A New Stochastic Criterion of Restoration Time after Collapse of a Large Power Network
370	13 ⁴⁰ - 14 ⁰⁰	LI. Monjo, J. J. Mesas, L. Sainz, J. Pedra	Study of Voltage Sag Impact on LED Lamp Consumed Currents

Electromagnetic Field – ROOM G (FRIDAY, JULY 1, 2016, 12³⁰ - 14⁰⁰)

Chairs: **dr. C.V. Atanasiu, prof. D.O. Micu**

ID	Schedule	Author(s)	Paper Title
351	12 ³⁰ - 13 ⁰⁰ (invited paper)	Calin Vlad Atanasiu, Leonid E. Zakharov, Karl Lackner, Matthias Hoelzl, Erika Strumberger, Stefan Nicolici	Simulation of surface currents excited by plasma wall-touching kink and vertical modes in tokamak
373	13 ⁰⁰ - 13 ²⁰	Dan Ovidiu Micu, Tudor Micu	The Potential of a Punctual Charge in the Presence of two Conductive Surfaces
375	13 ²⁰ - 13 ⁴⁰	Agah Oktay Ertay, Serkan Şimşek	A Compact Bandstop Filter Design for X-Band Applications
289	13 ⁴⁰ - 14 ⁰⁰	Mirza Sarajlic, Joze Pihler	The Influence of the Number of Ribs of a Medium Voltage Post Insulator on the Electric Field

14⁰⁰ - 15⁰⁰ LUNCH (UPB Library, 4th floor)

15⁰⁰ - 16³⁰ ORAL SESSIONS (UPB Library, ROOM E, 3rd floor)

Education and management – ROOM D (FRIDAY, JULY 1, 2016, 15⁰⁰ - 16¹⁰)

Chairs: **prof. D. Toader, dr. Alexandru G. Gheorghe**

ID	Schedule	Author(s)	Paper Title
365	15 ⁰⁰ - 15 ³⁰ (invited paper)	Constantin Blaj, Dumitru Toader	Bologna Process not (yet?) a Success for Electric and Electronic Engineering at UPT
345	15 ³⁰ - 15 ⁵⁰	Mircea Ignat	The scientific research initiation to the high school level. The case study : Alexandru Proca Centre
305	15 ⁵⁰ - 16 ¹⁰	Mircea-Emilian Ardeleanu, Dan – Gabriel Stănescu	A New Research Concerning Some Influence Factors in the Orientation of Highschool Graduates Towards Higher Technical Education

CLOSING SESSION AND CONCLUDING REMARKS