

**University Politehnica of Bucharest
Faculty of Electrical Engineering**



**Association of Electrical and
Electronics Engineers from Romania**



Symposium Program

The 6th Symposium

Advanced Topics in Electrical Engineering



**ATEE 2008
20 – 21 November, 2008**

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Prof. Vasiliu Mihai	University POLITEHNICA of Bucharest
Prof. Vasile Nicolae	CCIB
Dr. Walden Bertil	COMSOL A.B

8.30 – 12.30 REGISTRATION

Faculty of Electrical Engineering, Main Hall,
Thursday, 20 November, 2008

9.30 – 10.30: OPENING SESSION

Faculty of Electrical Engineering, EA 002 Hall,
Thursday, 20 November, 2008

9.30 – 9.50: Welcome messages

9.50 – 10.30: Invited lecture

I-1: S. Brisset

New Trends in Optimal Design of Electrical Machines

Ecole Centrale de Lille, FRANCE

10.30 – 11.00: COFFEE BREAK

Faculty of Electrical Engineering, Main Hall

11.00 – 13.00: ELECTRIC MACHINES 1 (ORAL SESSION – EM1) ROOM EA 024, THURSDAY, 20 NOVEMBER, 2008

Chairmen: M. Covrig, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
C. Ghiță, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

EM1 – 1: A. Andrei, M. Covrig, T. Ursu

Model for DC Commutator Torque Motor

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.20 – 11.40

EM1 – 2: V. Năvrăpescu¹, M. Popescu², A. Chirilă¹, D. Deaconu¹, C. Ghiță¹

Computation methods for space harmonic effects on single-phase induction motor performance

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²University of Glasgow, U.K.

11.40 – 12.00

EM1 – 3: C. Țânțăreanu, N. Ion

Electric motor systems - market investigation and evaluation of energy efficiency potential in East European countries

ENERO, Bucharest, ROMANIA

12.00 – 12.20

EM1 – 4: C. Toader, N. Golovanov, P. Postolache, R. Porumb, L. Lipan

Consideration about electrical losses in unbalanced transformers

Faculty of Power Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.20 – 12.40

EM1 – 5: M. Mihalache

Equivalent circuit parameters of three phase alternating current motors with imposed performances. Part I: Asynchronous motors

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.40 – 13.00

EM1 – 6: M. Mihalache

Equivalent circuit parameters of three phase alternating current motors with imposed performances. Part II: Synchronous motors

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 12.40: ELECTRIC DRIVES 1 (ORAL SESSION – ED1) ROOM EA 023, THURSDAY, 20 NOVEMBER, 2008

Chairmen: A. Crăciunescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

V. Năvrănescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

ED1 – 1: L. Youb, G.S. Ciumbulea, A. Crăciunescu

A new direct torque control strategies of induction motors

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.20 – 11.40

ED1 – 2: M. Cantegrel¹, T. Tudorache², S. Brisset¹, D. Kisk², G. Andronescu²

Models for the optimal design of propulsion system of a small power electric vehicle

¹Lab. of Electrical Engineering and Power Electronics, Ecole Centrale de Lille, FRANCE

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.40 – 12.00

ED1 – 3: G. Blujdea¹, A. Sarca², R.Giuclea³

Distributed control applications with intelligent drives

¹Technosoft International, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

³Technosoft S.A., Bevaix, Switzerland

12.00 – 12.20

ED1 – 4: A. Ignat¹, A. Sarca², I. Iacob¹, L. Kreindler²

A new cost optimized approach for multi-axis motion control applications

¹Technosoft International, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.20 – 12.40

ED1 – 5: D.O. Kisck¹, D.H. Kang², J.H. Chang², J.W. Kim², T. Tudorache¹

Real-time parameter identification of permanent-magnet synchronous motors for sensorless control

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²Korea Electrotechnology Research Institute, Mechatronics Research Group, Changwon, Kyungnam, KOREA

11.00 – 13.00: MATERIALS AND PROCESSES 1 (ORAL SESSION – MP1) ROOM EA 010, THURSDAY, 20 NOVEMBER, 2008

Chairmen: E. Helerea, Univ. Transilvania of Braşov, ROMANIA

P. V. Notingher, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

MP1 – 1: P.V. Notingher, L.M. Dumitran, S.A. Buşoi

Lifetime Estimation of composite insulations by absorption/resorption currents method

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.20 – 11.40

MP1 – 2: C. Stancu, P.V. Notingher

Influence of the surface defects on the absorption/resorption currents in polyethylene insulations

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.40 – 12.00

MP1 – 3: O. Nebi, V. Fireţeanu

Finite element analysis of a permanent magnets heating device

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.00 – 12.20

MP1 – 4: F. Ciuprina¹, T. Zaharescu², S. Jipa^{2,3}, I. Pleşa¹, P. V. Notingher¹, D. Panaitescu⁴

Ionizing radiation effects on dielectric properties of LDPE-Al₂O₃ nanocomposites

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²INCDIE, ICPE-CA, Bucharest, ROMANIA

³Faculty of Sciences, "Valahia" Univ. of Târgovişte, Târgovişte, ROMANIA

⁴ICECHIM, Bucharest, ROMANIA

12.20 – 12.40

MP1 – 5: M. Iordache¹, L. Dumitriu¹, E. Rotar², G. Nicolescu³, A. Joga², N. Voicu¹, D. Niculae¹

Improvement of the electrical machine performances by using an electro insulating varnish in H class

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²Electrical Research Institute, Bucharest, Romania

³Chimtitan S.A., Bucharest, Romania

12.40 – 13.00

MP1 – 6: G. Tănăsescu¹, P. V. Notingher², L. Voinescu¹

A new solution of insulation systems monitoring of medium and high power electrical machines

¹Simtech International, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 12.40: MEASUREMENT SYSTEMS 1 (ORAL SESSION – MS1) ROOM EA 119 (SALA CONSILIU), THURSDAY, 20 NOVEMBER, 2008

Chairmen: B. Pantelimon, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
C. Vlaicu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

MS1 – 1: I.C. Stika, L. Kreindler, R. Giuclea

High resolution optical position sensor

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.20 – 11.40

MS1 – 2: V. Fireșteanu, F. Gheorghe

Finite element models of angular position and rotation speed sensors

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.40 – 12.00

MS1 – 3: S.D. Grigorescu¹, T. Tudorache¹, C. Cepișcă¹, O.M. Ghiță¹, E. Grigorescu²

Monitoring the volume of water in barrier lakes using GSP technology

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²S.C. Dason Eletro S.R.L. Bucharest, ROMANIA

12.00 – 12.20

MS1 – 4: C. Cepișcă¹, H. Andrei², S.D. Grigorescu¹, M. Popa¹, P.C. Andrei¹, G. Serișan¹, C. Bănică¹, F. Argatu¹,
V. Dogaru-Ulieru², I. Stancu³, L. Stancu³

Modern solutions for reducing the lighting consumption by using a computerized expert system

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²Faculty of Electrical Engineering, Valahia Univ. of Târgoviște, Târgoviște, ROMANIA

³SC Amiras C&L Impex SRL, Târgoviște, ROMANIA

12.20 – 12.40

MS1 – 5: C. Vlaicu, C.D. Oancea

Calibration system for electric energy quality measurement equipment

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 12.40: POWER ELECTRONICS (ORAL SESSION - PE) ROOM EB 002, THURSDAY, 20 NOVEMBER, 2008

Chairmen: D. Floricău, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
F. Ionescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

PE – 1: F. Ionescu¹, I. Colt², I.S. Ionescu³

Algorithm for the optimum functioning of an ozone producing system

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²SC-ICPE SAERP SA, Bucharest, ROMANIA

³FEREST.ING, ROMANIA

11.20 – 11.40

PE – 2: L. Spătaru, D. Floricău, F. Ionescu

FPGA Control for the 3L-SNPC power converter

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.40 – 12.00

PE – 3: D. Olaru, D. Floricău

Single phase AC choppers input/output filter interaction

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.00 – 12.20

PE – 4: L. Lazăr, F. Ionescu

Temperature control of LED illuminated lamps

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.20 – 12.40

PE – 5: A. Doka¹, A.M. Dumitrescu¹, D. Roiu², R. Bojoi², R. Măgureanu¹

Serial Hybrid Active Filters for Medium Voltage Distribution Grids

¹ Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

² Electrical Engineering Department, Politecnico di Torino, ITALY

11.00 – 13.00: ELECTRIC CIRCUITS 1 (ORAL SESSION – EC1) ROOM EB206, THURSDAY, 20 NOVEMBER, 2008

Chairmen: F. Constantinescu, Faculty of Electrical Eng., Univ. POLITEHNICA of Bucharest, ROMANIA

F. Hăntîlă, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.00 – 11.20

EC1 – 1: J. Plata, M. Dobrzynski, S. Gim

Sensitivity analysis of on-chip passive structures

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.20 – 11.40

EC1– 2: A. Ștefănescu

Variability Models for Transmission Lines

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

11.40 – 12.00

EC1– 3: H. Andrei¹, F. Spinei², I. Căciulă¹, P.C. Andrei²

Analysis of the magnetic energy for linear magnetic circuits with modifiable parameters

¹ Faculty of Electrical Engineering, Valahia Univ. of Târgoviște, ROMANIA

² Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.00 – 12.20

EC1– 4: Z. Erdei

ATECA PROGRAM – Analyzer of tolerance of the electric analog circuits

Electrical Engineering Dept., North Univ. of Baia Mare, ROMANIA

12.20 – 12.40

EC1 – 5: A. G. Gheorghe, M. Nitescu, F. Constantinescu

Circuit Models for Anti-series and Anti-parallel Connections of Power BAW Resonators

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

12.40 – 13.00

EC1 – 6: F. Constantinescu, A. G. Gheorghe, M. Nitescu

The energy balance error for circuit transient analysis

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

13.00 – 14.30: LUNCH

Main Hall, Thursday, 20 November, 2008

**14.30 – 16.30: ELECTRIC MACHINES 2 (ORAL SESSION – EM2)
ROOM EA 024, THURSDAY, 20 NOVEMBER, 2008**

Chairmen: S. Brisset, Lab. of Electrical Engineering and Power Electronics, Ecole Centrale de Lille, FRANCE
C. Ghiță, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 14.50

EM2 – 1: M. Mihalache

The Poynting algorithm – a general method in optimal sizing of electrical machines

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.50 – 15.10

EM2 – 2: M. Mihalache

The unitary treatment of electrical machine economic performances

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.10 – 15.30

EM2 – 3: N. Voicu, L. Dumitriu, M. Iordache, D. Niculae

Modeling of the induction motor ventilation by electric circuits

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.30 – 15.50

EM2 – 4: I.D. Deaconu, A.I. Chirilă, C. Ghiță, V. Năvrăpescu

Numerical modeling of atmospheric overvoltage waves propagation over the power electric transformers

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.50 – 16.10

EM2 – 5: R. Popovici, S. Frumușelu, M.O. Popescu, C.L. Popescu

On-line diagnosis of the static excitation equipments for synchron generators using experts system

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.10 – 16.30

EM2 – 6: I.D. Ilina, C. Ghiță

Determination of magnetizing characteristics of synchronous machine by static methods

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

**14.30 – 16.10: ELECTRIC DRIVES 2 (ORAL SESSION – ED2)
ROOM EA 023, THURSDAY, 20 NOVEMBER, 2008**

Chairmen: A. Crăciunescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
D. Kisck, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 14.50

ED2 – 1: C.O. Badea, A. Crăciunescu, V. Năvrăpescu

Using of GPS (Global Positioning System) technology into the process of computing airplane coordinates
Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.50 – 15.10

ED2 – 2: A.C. Magearu, A. Crăciunescu, V. Năvrăpescu

Energy management strategies based on fuzzy logic of power train for a hybrid electrical vehicle
Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.10 – 15.30

ED2 – 3: E. Darie¹, C. Cepișcă², E. Darie³

Improvements of PWM modulation for the permanent-split capacitor motor

¹Electrotechnical Department, Technical Univ. of Civil Engineering, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

³Engineering Department, Police Academy Bucharest, ROMANIA

15.30 – 15.50

ED2 – 4: E. Darie¹, C. Cepișcă², E. Darie³

About the space vector current control for AC motor drives

¹Electrotechnical Department, Technical Univ. of Civil Engineering, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

³Engineering Department, Police Academy Bucharest, ROMANIA

15.50 – 16.10

ED2 – 5: A.I. Chirilă, I.D. Deaconu, C. Ghiță, V. Năvrăpescu

Operating analyses of an induction motor fed by a three-phase PWM voltage inverter
Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest

14.30 – 16.30: MATERIALS AND PROCESSES 2 (ORAL SESSION – MP2) ROOM EA 010, THURSDAY, 20 NOVEMBER, 2008

Chairmen: F. Ciuprina, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
A. Morega, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 14.50

MP2 – 1: M. Tomșe, S. Pașca, E. Vladu

Analysis of electromagnetic forming based on PSPICE model of equivalent electrical circuit

Faculty of Electrical Engineering and Information Technology, University of Oradea, ROMANIA

14.50 – 15.10

MP2 – 2: A. Ionescu¹, P.V. Noțingher², L. Tarko³, S. Cotescu¹, L. Avădanei¹, C. Preduț¹

Influence of the additive concentration on composite materials fireproofed by using halogen-free additives

¹ICPE S.A. Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

³Institute of Organic Chemistry of the Romanian Academy, Bucharest, ROMANIA

15.10 – 15.30

MP2 – 3: A. Morega¹, M. Morega¹, F. Stoian², S. Holotescu²

Heat transfer processes in magnetic fluid confined to a cylindrical enclosure

¹ Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

² Univ. Politehnica of Timișoara, ROMANIA

15.30 – 15.50

MP2 – 4: K. Tanoue¹, A. Morega², T. Nishimura¹

Numerical simulation of chemical reacting flow and the effect of the interactions between ions

¹ Faculty of Mechanical Engineering, Yamaguchi Univ., Tokiwadai, Ube, JAPAN

² Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.50 – 16.10

MP2 – 5: S. Pasca¹, T. Vesselenyi², V. Firețeanu³, T. Tudorache³, M. Tomșe¹, P. Mudura², E. Vladu¹, S. Muresan⁴

Sequentially coupled finite element model of transient magneto-structural phenomena in electromagnetic forming processes

¹ Faculty of Electrical Engineering and Information Technology, Univ. of Oradea, ROMANIA

² Faculty of Management and Technological Engineering, Univ. of Oradea, , ROMANIA

³ Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

⁴ Faculty of Management and Technological Engineering, Univ. of Oradea, , ROMANIA

16.10 – 16.30

MP2 – 6: M. Petre¹, A. Morega²

Heat transfer by the side wall of an aluminum electrolysis cell

¹ ALRO Slatina Plant, Slatina, ROMANIA

² Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 16.10: MEASUREMENT SYSTEMS 2 (ORAL SESSION – MS2) ROOM EA 119 (SALA CONSILIU), THURSDAY, 20 NOVEMBER, 2008

Chairmen: C. Cepișcă, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

S.D. Grigorescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 14.50

MS2 – 1: C.M. Raicu¹, C. Cepișcă²

Using telemetric systems and monitoring techniques to assessment the air quality

¹ National Research-Development Institute for Environmental Protection –NR&DIEP Bucharest, ROMANIA

² Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.50 – 15.10

MS2 – 2: M. E. Marin, A. Nechifor

Computer controlled measurement systems. A new VLAB application

Univ. POLITEHNICA of Bucharest, ROMANIA

15.10 – 15.30

MS2 – 3: A. Marinescu, I. Dumbravă, D. Ștefan

Development of a checking procedure for frequency characteristics measurement system at power transformers

ICMET, Craiova, ROMANIA

15.30 – 15.50

MS2 – 4: A. Marinescu

Measurement uncertainty at SAR determination for mobile phones

ICMET, Craiova, ROMANIA

15.50 – 16.10

MS2 – 5: I. D. Oltean, E. Herelea

DC current transducers with geometrical/planar magneto resistive sensors

Univ. “Transilvania” of Braşov, ROMANIA

**14.30 – 16.10: ELECTRIC CIRCUITS 2 (ORAL SESSION – EC2)
ROOM EB 206, THURSDAY, 20 NOVEMBER, 2008**

Chairmen: D. Ioan, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

M. Iordache, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.30 – 14.50

EC2– 1: C.G. Popescu

Companion models for multi-rate analysis of integrated analog circuits

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

14.50 – 15.10

EC2– 2: G. Ciuprina, D. Ioan

Importance of the terminals excitation type on system representation for model order reduction procedures

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.10 – 15.30

EC2– 3: D. Niculae, L. Dumitriu, M. Iordache

Heat transfer computation using electrical circuit analogy

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.30 – 15.50

EC2– 4: M. Iordache, L. Dumitriu, C. Popescu

A new approach for steady-state analysis of the RF circuits

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

15.50 – 16.10

EC2– 5: D. Mihalache

Extraction of electromagnetic models for passive integrate components

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 17.00: COFFEE BREAK
Faculty of Electrical Engineering, Main Hall

16.30 – 18.10: RENEWABLE ENERGIES (ORAL SESSION - RE)
ROOM EB 002, THURSDAY, 20 NOVEMBER, 2008

Chairmen: N. Badea, Electrical Engineering Department, Dunărea de Jos University of Galați, ROMANIA
M.O. Popescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 16.50

RE – 1: T. Tudorache

Sensitivity analysis of autonomous hybrid power systems

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.50 – 17.10

RE – 2: D.I. Costia, M.O. Popescu, C.L. Popescu,

Photovoltaic solar cell like receiver for electromagnetic waves in VHF-UHF bands

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.10 – 17.30

RE – 3: T. Tudorache, S.D. Grigorescu, O.M. Ghiță

Evaluation of energetic potential of Romanian hydroelectric dams

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.30 – 17.50

RE – 4: N. Badea¹, N. Cazacu², I. Paraschiv¹

Pre-determination of the electrical power to heat power ratio in integrated micro CCHP for residential systems in South-East region of Romania

¹Electrical Engineering Department, Dunărea de Jos University of Galați, ROMANIA

²Metallurgical and Materials Science Department, Dunarea de Jos University of Galati, ROMANIA

17.50 – 18.10

RE – 5: D.A. Croitoru¹, F. Ionescu²

Dynamic modeling of energy conversion using non conventional sources (wind kinetic energy)

¹SC IMSAT SA, Bucharest, ROMANIA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 18.30: BIOENGINEERING (ORAL SESSION - BE)
ROOM EA 023, THURSDAY, 20 NOVEMBER, 2008

Chairmen: P. Cristea, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA
A. Morega, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 16.50

BE – 1: M. Stanciu, A. Boev, M. Albu, B. Pantelimon

Dynamic analysis of heart rate variability parameters

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.50 – 17.10

BE – 2: C.V. Marin, D. Marin

Frequency selection for parameters identification in bioimpedance spectroscopy

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.10 – 17.30

BE – 3: R.C. Rădescu

Lossless compression tool for medical imaging

Faculty of Electronics, Telecom. and Information Technology, Univ. POLITEHNICA of Bucharest, ROMANIA

17.30 – 17.50

BE – 4: A. Morega, S. Faur

Numerical simulation of the cooling of human kidney for transport

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.50 – 18.10

BE – 5: V. Manoliu

A mathematical model that correlates heart rate with respiration and vascular parameters changes induced by obesity

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

18.10 – 18.30

BE – 6: V. Manoliu¹, C. Stănescu², D. Stănescu³

Clinical ecocardiographic and nuclear scintigraphic protocols for assessing the correspondence between obesity and cardiovascular diseases with a view to mathematical modeling

¹Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

²Department of Cardiology, “Colentina” Clinical Hospital Bucharest, ROMANIA

³Nuclear Medicine Laboratory, Fundeni Clinical Institute Bucharest, ROMANIA

16.30 – 17.50: ECONOMIC TRENDS IN ELEC. ENG. (ORAL SESSION - ET) ROOM EA 010, THURSDAY, 20 NOVEMBER, 2008

Chairmen: M. Covrig, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

C.L. Popescu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 16.50

ET – 1: S.E. Piperca^{1,2}, C.M. Gheorghe²

Interorganizational collaboration: A successful way of producing innovation

¹Management and Technology Department, Univ. of Quebec in Montreal, Montreal, CANADA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.50 -17.10

ET – 2: C.M. Gheorghe, M. Covrig

Techniques of quality engineering applied in sociological research

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.10– 17.30

ET – 3: S.E. Piperca^{1,2}, C.M. Gheorghe², M. Covrig²

Patents—an indicator of innovation activities

¹Management and Technology Department, Univ. of Quebec in Montreal, Montreal, CANADA

²Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.30– 17.50

ET – 4: M.O. Popescu, C.L. Popescu

New trends in efficient production and distribution of electrical energy

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

**16.30 – 17.50: VIRTUAL INSTRUMENTATION (ORAL SESSION - VI)
ROOM EA 119 (SALA CONSILIU), THURSDAY, 20 NOVEMBER, 2008**

Chairmen: M. Albu, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

M. Sărăcin, Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.30 – 16.50

VI – 1: C.G. Sărăcin, M. Sărăcin

The protection of the information in the railways energetically dispatch centers

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

16.50 -17.10

VI – 2: C.G. Sărăcin, M. Sărăcin

RDTP-EID research/development/training platform concerning the electrical installations domain

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.10– 17.30

VI – 3: C.G. Sărăcin, M. Sărăcin, M. Dascălu, A.M. Lepar

Spectral analysis of the digital signals - the echo cancellation using the LMS algorithm

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

17.30 – 17.50

VI – 4: S.D. Grigorescu, C. Cepișcă, O.M. Ghiță, I. Ghiță

Design of power quality monitoring systems using Labview software tools

Faculty of Electrical Engineering, Univ. POLITEHNICA of Bucharest, ROMANIA

19.00 – 21.00: COCKTAIL

Leu Restaurant, Thursday, 20 November, 2008

12.00 – 13.30: WORKSHOP

***MOTOR CHALLENGE PROGRAMME - IMPROVEMENT OF
ELECTRIC EFFICIENCY OF ELECTRIC DRIVE SYSTEMS
USING ELECTRIC MOTORS***

ROOM EA 011, FRIDAY, 21 NOVEMBER, 2008

Chairman: C. Tântăreanu, ENERO, Bucharest, ROMANIA

13.30 – 14.00: COFFEE BREAK
Faculty of Electrical Engineering, Main Hall

14.00 – 15.30: WORKSHOP
RENEWABLE SOURCES OF ENERGY

ROOM EA 011, FRIDAY, 21 NOVEMBER, 2008

Chairman: T. Tudorache, Faculty of Electrical Engineering,
Univ. POLITEHNICA of Bucharest, ROMANIA