

ISEEE-2006 - TIME TABLE

Preliminary Programme

Friday, October 13, 2006

8³⁰-9³⁰ – Registration

Domneasca - 47, D building, D02 amphitheatre, *before* 10 am.

Stiintei -2, Y Building, 1st floor, *after* 10 am.

9³⁰-10⁰⁰ -Open Session – Domneasca 47, D building, amphitheatre D02.

Speakers:

1. *The Dean of the Electrical and Electronics Engineering Faculty*
2. *The Rector of “Dunarea de Jos” Galati University, Romania*
3. *Gheorghe Saptelei – Operational Manager Alewijnse RETEC Galati Romania*
4. *Tudorel Topa – Executive Manager Aker Yards Electro Tulcea, Romania*

10⁰⁰-11³⁰ – Plenary Session

Speakers:

1. *Alexa Dimitrie, Technical University of Iasi, Romania*
2. *Brayima Dakyo, Le Havre University, France*
3. *Herbert Peremans, Antwerp University, Belgium*

11³⁰ - 12⁰⁰ – Coffee break

FIEE, Stiintei -2, Y Building, 1st floor, room Y 104,

12⁰⁰ - 13⁴⁵ – Module 1 – Paper presentation

FIEE, Stiintei -2, Y Building, 1st floor, rooms Y 102, Y 105, Y 106

14⁰⁰-16⁰⁰ - Lunch

University’s Cafeteria, “Alexandru Ioan Cuza” Campus.

16⁰⁰ – 17³⁰ - Module 2 – Paper presentation

FIEE, Stiintei -2, Y Building, 1st floor, rooms Y 102, Y 105, Y 106.

18⁰⁰ - 19³⁰ - Module 3 – Paper presentation

FIEE - Stiintei -2, Y Building, 1st floor, rooms Y 102, Y 105, Y 106.

20⁰⁰ - 22⁰⁰ – Cocktail.

Saturday, October 14, 2006

09⁰⁰ -09³⁰ – Welcome Coffee. FIEE - Stiintei -2, Y Building, Y 104.

09³⁰-10³⁰ – Special Session organized by Absolute IT Solution

Speakers:

1. *Dumitru Vlad, Absolute IT Solution, President of European Operations*
- 2.

11⁰⁰ – 13⁰⁰ – Social event. Trip on Danube.

13⁰⁰ –14⁰⁰ – Symposium’s Formal Close and Farewell.

THE PAPERS OF THE 1ST MODULE

Friday, October 13, 12:00 – 13:45

ROOM Y 102

RENEWABLE ENERGIES AND ELECTRICAL SYSTEMS

Chairman: Răzvan Măgureanu, *Politehnica University of Bucharest, Romania*

Co-chairman: Nicolae Badea, *Dunarea de Jos Galati University, Romania*

Co-chairman: Ion Voncila, *Dunarea de Jos Galati University, Romania*

Secretary: Gelu Gurguiatu

1. ***Electric Propulsion for Mega Ships***
Răzvan Măgureanu, Valeriu Bostan, Ana-Maria Dumitrescu, Mihai Priboianu
University "Politehnica" of Bucharest, Romania
2. ***Photovoltaic (PV) - Wind Hybrid Systems With the Help of RNSIC Converter***
I.V. Pletea, D. Alexa, A. Serediuc, A. Petrichei, O. Tomoroga
Technical University "Gh. Asachi" Iași, Romania
3. ***Dynamic Performances of Control Structures for Wind-diesel Systems without Storage***
Ciprian Vlad¹, Nicolaos Antonio Cutululis², Julie Lefebvre³, Emil Ceangă¹
1 - "Dunarea de Jos" University of Galati, Romania
2 - Risø National Laboratory, Roskilde, Denmark
3 - Université du Québec à Rimouski, Canada
4. ***Influence of Static Electricity on the Human Body***
Ioan Ionescu, Valentin Dogaru Ulieru, Diana Enescu
VALAHIA University of Targoviste, Romania
5. ***Electrostatic Phenomena and Processes Generated by Industrial Risk***
Ioan Ionescu, Valentin Dogaru Ulieru
VALAHIA University of Targoviste, Romania
6. ***The influence of non-homogenous dielectric material in the waveguide propagation modes***
Nicolae Badea, Ion Voncila
"Dunarea de Jos" University of Galati, Romania

ROOM Y105

POWER ELECTRONICS. MODELING AND SIMULATION

Chairman: Dimitrie Alexa, *Technical University of Iasi*

Co-chairman: Emil Roșu, *"Dunarea de Jos" University of Galati, Romania*

Secretary: Mihai Culea

1. ***Two – Quadrant Converter Operation Characteristics Having Controllable Semiconductor Devices with Continuous Functionality***
D. Alexa, T. Goras, R. Chiper, I.V. Pletea, A. Alexandrescu, C. Nedelcu, O. Tomoroga
Technical University "Gh. Asachi" Iași, Romania
2. ***Indirect Control of a Single-Phase Active Power Filter***
Emil Roșu, Mihai Culea, Teodor Dumitriu, Traian Munteanu,
"Dunarea de Jos" University of Galati, Romania

3. **Power Delivery System Modeling and Simulation**
Mariana Dumitrescu
"Dunarea de Jos" University of Galati, Romania
4. **Results of a Tentative of Symbolic Solution in Simulation of Declarative Process Models**
Dorel Aiordăchioaie¹, Gabriel Sirbu¹, Iulian Aramă²,
1 - "Dunarea de Jos" University of Galati, Romania
2 - Electrica Muntenia Nord – Galați Branch, Romania
5. **Modeling the Dynamics of Free Electrode-Wire Extension to Control the Arc Length in the MIG Welding Process**
Constantin Mihalcă, Viorel Nicolau,
"Dunarea de Jos" University of Galati, Romania

ROOM Y106

ELECTRICAL DRIVES AND CONTROL

Chairman: Viorel Trifa, *Technical University of Cluj-Napoca, Romania*
Co-chairman: Ion Bivol, *"Dunarea de Jos" University of Galati, Romania*
Co-chairman: Voncila Ion, *"Dunarea de Jos" University of Galati, Romania*
Secretary: Silviu Epure

1. **The complete solution regarding the Automation of Shipbuilding Installations (invited paper)**
Ionut Cornea, Gh.Rizan Saptelui, Bogdan Ciobotaru,
RETEC SA, Galați, Romania
2. **Preliminary study of the in-wheel drive of electric bike**
V. Trifa, C. Mărginean, L. Zărnescu,
Technical University of Cluj, Romania
3. **Aspects concerning the design of a special reluctant motor for direct electrical drive of a bicycle**
V. Trifa, C. Mărginean, C. Truță,
Technical University of Cluj, Romania
4. **Power Factor Correction using a Mixed Control Technique**
Nicu Bizon, Emil Sofron, Raducu Marian, Mihai Oproescu,
University of Pitești, Romania
5. **An Experimental Platform for Low Power DC Drives – Application to Sliding Mode Motion Control**
Silviu Epure, Iulian Munteanu, Antoneta I. Bratcu,
"Dunarea de Jos" University of Galati, Romania
6. **The Quasi-Direct PWM AC-AC Converter for Electrical Drives under Unbalanced and Distorted Operating Conditions**
Marian Găiceanu,
Politecnico di Torino, Italy

THE PAPERS OF THE 2ND MODULE

Friday, October 13, 15:30– 17:30

ROOM Y 102

Special Session

RESEARCH ON ELECTRIC POWER SAVING AND QUALITY

- Part I -

Chairman: Petru Postolache, *Politehnica University of Bucharest*

Co-chairman: Toader Munteanu, *Dunarea de Jos Galati University*

Secretary: Gelu Gurguiatu

1. *Some consideration about electrical losses in with unbalanced loads*
C. Toader, N. Golovanov, P. Postolache, R. Porumb
University POLITEHNICA of Bucharest, Romania
2. *Neutral Conductor Loading in Nonsinusoidal Regime*
C. Toader, P. Postolache, N. Golovanov, L. Lipan
University POLITEHNICA of Bucharest, Romania
3. *Method, Equipment and System to Estimate the Quantity of Excavated Material with Energetic Methods, in Open Pits*
Gabriel Vladut¹, Ion Mircea², Doru Ioan Bucur³
1-SC IPA SA CIFATT Craiova, 2-University of Craiova, 3-SNLO, EMC Husnicioara
4. *Lighting energy efficiency and saving in residential buildings in Romania*
POP Florin, BEU Dorin, CIUGUDEANU Călin
Technical University of Cluj-Napoca, Romania
5. *Aspects Concerning the Lifetime for the Power Transformer*
Paul Mihai MIRCEA
University of Craiova
6. *Moving average practical tool for losses analysis–correlation between losses and distribution tariff*
Dan Apetrei, Corina Popescu, Cristian Popescu
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ROOM Y105

COMMUNICATIONS

Chairman: Ion Bogdan, *Technical University “Gh. Asachi” Iași, Romania*

Co-chairman: Ion Sima, *University of Pitești, Romania*

Co-chairman: Frangu Laurentiu, *“Dunarea de Jos” University of Galati, Romania*

Secretary: Gabriel Sirbu

1. *Tracking Mobile Terminals in Cellular Networks*
Ion Bogdan,
Technical University “Gh. Asachi” Iași, Romania
2. *An Efficient Method to Design the Broad-Band Equivalent Antennas*
Ion Sima, Corina Săvulescu,

3. **An Application for Network Communication Using an External Modem**
Radu Rădescu, Vergiliu Șerban
University "Politehnica" of Bucharest, Romania
4. **Opamp Power Consumption Driven Design for the Low Frequency Part of A Reconfigurable Direct Conversion Multi-Standard Radio Receiver**
Silvian Spiridon, Frank Op't Eynde,
ASICAHEAD INTERNATIONAL SRL, Bucharest, Romania
5. **On the np-CSMA Systems With Hidden Terminals and Capture Effect**
Gabriel Sirbu¹, Ion Bogdan²,
1 - "Dunarea de Jos" University of Galati, Romania
2 - Technical University "Gh. Asachi" Iași, Romania
6. **Ethernet communication system based on microcontroller**
Costel Lupoae¹, Claudiu Chiculita²,
1 - ERICSSON – Romania, Bucharest, Romania
2 - "Dunarea de Jos" University of Galati, Romania
7. **GSM/GPRS Vehicle Tracking System**
Constantin Turcanu, Claudiu Chiculita²,
1 - ERICSSON – Romania, Bucharest, Romania
2 - "Dunarea de Jos" University of Galati, Romania

ROOM Y106

COMPUTATIONAL INTELLIGENCE

Chairman: Radu Dogaru, University "Politehnica" of Bucharest, Romania
Co-chairman: Laurentiu Frangu, "Dunarea de Jos" Galati University, Romania
Co-chairman: Rustem Popa, "Dunarea de Jos" Galati University, Romania
Secretary: Silviu Epure

1. **A Nested Temporal Averaging Feature Extraction Method for Isolated Word Recognition using SVM Classifiers**
Radu Dogaru, Gabriel Nicolae Costache, Octavian Dumitru, Inge Gavut,
University "Politehnica" of Bucharest, Romania
2. **The Functional Identification of Systems Using Genetic Algorithms**
Corina Săvulescu, Ion Sima, Emil Sofron,
University of Pitești, Romania
3. **Optimization in Distribution Systems Using Particle Swarm Optimization and Immune Algorithm**
Mihai Gavrilas, Ovidiu Ivanov
Technical University "Gh. Asachi" Iași, Romania
4. **Intelligent Techniques for Ship Performances Efficiency Evaluation**
Gabriela Nemtanu, Traian Munteanu, Ion Bivol,
"Dunarea de Jos" University of Galati, Romania
5. **Aspects Regarding Qualitative Reasoning used to control the "Pendulum & Beam" system**
Gheorghe Pușcașu, Bogdan Codreș, Alexandru Codreș,
"Dunarea de Jos" University of Galati, Romania

6. **An Approach to Multiple Attribute Decision Making**
Paul Vasiliu, Ioan Popoviciu,
Naval Academy „Mircea cel Batran”, Constantza, Romania
7. **Evolvable Hardware in Xilinx PLDs**
Rustem Popa, Viorel Nicolau, Silviu Epure,
“Dunarea de Jos” University of Galati, Romania
8. **GRASP Approach for the Glass Cutting Problem**
Vijayan Immanuel, Abhradeep Guha Thakurta, Ashwath Kumar.K,
National Institute of Technology Karnataka, Suranthal, India

The papers of the 3rd Module

Friday, October 13, 18:00 – 19:30

ROOM Y 102

Special Session

RESEARCH ON ELECTRIC POWER SAVING AND QUALITY

- Part II -

Chairman: Petru Postolache, *Politehnica University of Bucharest*

Co-chairman: Toader Munteanu, *Dunarea de Jos Galati University*

Secretary: Gelu Gurguiatu

1. **Optimization of reactive power compensation, solution increasing power delivery efficiency**
Toader Munteanu¹, Mariana Dumitrescu¹, Gelu Gurguiatu¹,
Ciprian Vlad¹, Maria Iliuță², Grigore Fetecău¹
1 - “Dunarea de Jos” University of Galati, 2 - S.C. Electrica S.A, Galați
2. **Proposal for improvement of grid and power supply efficiency**
Maria ILIUTA, Lenuta DUTA, Vasile GULINSCHI¹, Toader MUNTEANU; Ion
VONCILA; Gelu GURGUIATU²; Sorin POPESCU³
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3. **Comparative Studies about the Localization and Sizing of Compensation Systems**
M. Dumitrescu, T. Munteanu, G. Gurguiatu
“Dunarea de Jos” University of Galati
4. **Sinusoidal Currents Unbalance Factors Variation in Low Voltage Networks**
F. Bătrînu, N. Golovanov, P. Postolache, R. Porumb, C. Toader
University POLITEHNICA of Bucharest, Romania
5. **Unsymmetrical sags effects on induction motors. Critical length**
G. C. Lăzăroi, N. Golovanov
University POLITEHNICA of Bucharest, Romania
6. **Flicker Generator as an useful tool in quality analysis**
Dan Apetrei, Nicolae Golovanov, Alexandru Marcu
University POLITEHNICA of Bucharest, Romania

7. *Improving the Efficiency Operation of Moldavian Transmission System*

L. Kalinin¹, D. Zaițev¹, M. Tîrșu¹, S. Cebotari²

1 - Power Engineering Institute of Academy of Sciences of Moldova, Republic of Moldova, 2 - "MOLDELECTRICA", Republic of Moldova

ROOM Y105

INFORMATION PROCESSING

Chairman: Valeriu Munteanu, *Technical University "Gh. Asachi" Iași, Romania*

Co-chairman: Radu Rădescu, *University "Politehnica" of Bucharest, Romania*

Co-chairman: Dorel Aiordachioaie, *"Dunarea de Jos" Galati University, Romania*

Secretary: As. ing. Gabriel Sîrbu (Mihai Culea)

1. *Optimal Coding for Qualitative Sources on Noiseless Channels*

Valeriu Munteanu, Daniela Târniceriu,
Technical University "Gh. Asachi" Iași, Romania

2. *Fast generation of dividable S-random interleavers and their performance analysis*

Lucian Trifina, Valeriu Munteanu, Horia Baltă,
Technical University "Gh. Asachi" Iași, Romania

3. *Performance Evaluation of Universal Codes for Compact Representation of Integers*

Radu Rădescu, George Isar,
University "Politehnica" of Bucharest, Romania

4. *Elliptic Curves Cryptosystems*

Ion Tutănescu,
University of Pitești, Romania

5. *Parallel algorithm in linear programming problems*

Ioan Popoviciu, Paul Vasiliu,
Naval Academy „Mircea cel Batran”, Constantza, Romania

ROOM Y106

SIGNAL PROCESSING

Chairman: Emil Sofron, *University of Pitești, Romania*

Co-Chairman: Radu Dogaru, *University "Politehnica" of Bucharest, Romania*

Co-Chairman: Daniela Târniceriu, *Technical University "Gh. Asachi" Iași, Romania*

Co-Chairman: Viorel Nicolau, *"Dunarea de Jos" Galati University, Romania.*

Secretary: Silviu Epure

1. *Cellular Automata Codebooks and their Application for a Compact Image Compression Algorithm*

Radu Dogaru¹, Manfred Glesner², Ronald Tetzlaff³
1 - *University "Politehnica" of Bucharest, Romania*
2 - *Technical University of Darmstadt, Germany*
3 - *Johann Wolfgang Goethe University, Frankfurt/Main, Germany*

2. *Wear Estimation of a Brush with Incorporated Bearing through the Lubricant Pressure Spectrum Analysis*

Emil Sofron, Nicu Bizon, Nicolae Mazilu, Mihai Oproescu
University of Pitești, Romania

3. ***Frequency Content Oriented Modification of Quantization Matrix in DCT – based Compression***
Daniela Tarniceriu, Valeriu Munteanu, Florin Beldianu
Technical University “Gh. Asachi” Iași, Romania

4. ***An ICA Based Method for Texture Recognition***
Daniela Colțuc¹, Thierry Fournel², Jean-Marie Becker², Yann Boutant³,
1 - *University “Politehnica” of Bucharest, Romania*
2 – *Université Jean Monnet, Saint-Etienne, France*
3 – *Société Signoptic Technologies, Le Bourget du Lac, France*

5. ***Coding – Non-coding DNA Classification Based on a New Conversion from Nucleotides to Binary Form***
Șerban Mereuță
Technical University “Gh. Asachi” Iași, Romania

6. ***Analytical Study of Spectral Density Correction at Frequency Variable Transformation***
Viorel Nicolau, Rustem Popa, Constantin Miholcă
“Dunarea de Jos” University of Galati, Romania

Saturday, October 14, 2006

09⁰⁰ -09³⁰ – Welcome Coffee. FIEE - Stiintei -2, Y Building, Y 104.

09³⁰ -10³⁰ – Special Session organized by Absolute IT Solution, Y 106

Speakers:

1. Dumitru Vlad, Absolute IT Solution, President of European Operations
- 2.

11⁰⁰ – 13⁰⁰ – Social event. Trip on Danube.

13⁰⁰ –14⁰⁰ – Symposium’s Formal Close and Farewell.