

**ISEEE-2006 - Final Program
TIME TABLE**

Friday, October 13, 2006

8³⁰-9³⁰ – Registration

Domneasca - 111, D building, D02 amphitheatre, *before* 10 am.

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

9³⁰-10⁰⁰ -Open Session – Domneasca 111, D building, D02 amphitheatre.

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 – Domneasca 111, D building, D02 amphitheatre.

Speakers:

1. *Alexa Dimitrie, Technical University of Iasi, Romania*
2. *Brayima Dakyo, Le Havre University, France*
3. *Herbert Peremens, 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, Y106

14⁰⁰-15³⁰ - Lunch

15³⁰ – 17³⁰ - Module 2 – Paper presentation

FIEE, Stiintei -2, Y Building, 1st floor, rooms Y 102, Y 105, Y106.

17³⁰ - 18⁰⁰ – Coffee break

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

18⁰⁰ - 19³⁰ - Module 3 – Paper presentation

FIEE - Stiintei -2, Y Building, 1st floor, rooms Y 102, Y 105, Y106.

20⁰⁰ - 22⁰⁰ – Cocktail.

Saturday, October 14, 2006

09⁰⁰ - 09³⁰ – Registration

Stiintei -2 , Y Building, 1st floor.

09³⁰ - 10⁰⁰ – Welcome Coffee. FIEE - Stiintei -2, Y Building, Y 104.

10⁰⁰-11³⁰ – Special Session organized by ARIES, FIEE - Stiintei -2, Y Building, Y 106.

Speakers:

1. *Paul Svasta, Politehnica University of Bucharest, Romania*
2. *Vlad Dumitru, Absolute IT Solution.*

12⁰⁰ – 14⁰⁰ – Social event. Trip on Danube.

14⁰⁰ –14³⁰ – 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:** B. Dakyo, *Le Havre University, France***Co-chairman:** Nicolae Badea, *“Dunarea de Jos” Galati University, Romania***Secretary:** Maricel Oanca**1. *Electric Propulsion for Mega Ships***Răzvan Măgureanu, Valeriu Bostan, Ana-Maria Dumitrescu, Mihai Priboianu
*University “Politehnica” of Bucharest, Romania***2. *Wind Turbine Simulator based on DSP Control Structure for Wind Energy Conversion Study on the Isolated Site***M. El Mokadem*, C. Nichita*, B. Dakyo*, E. Ceanga**
* *Le Havre University, France*
** *“Dunarea de Jos” University of Galati, Romania***3. *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” Iasi, Romania***4. *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***5. *Influence of Static Electricity on the Human Body***Ioan Ionescu, Valentin Dogaru Ulieru, Diana Enescu
*VALAHIA University of Targoviste, Romania***6. *Electrostatic Phenomena and Processes Generated by Industrial Risk***Ioan Ionescu, Valentin Dogaru Ulieru
*VALAHIA University of Targoviste, Romania***7. *The influence of non-homogenous dielectric material in the waveguide propagation modes***Nicolae Badea, Ion Voncilă
*“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***Co-chairman:** Mariana Dumitrescu, *“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 Miholcă, Viorel Nicolau
“Dunarea de Jos” University of Galati, Romania

ROOM Y106

ELECTRICAL DRIVES AND CONTROL

Chairman: Viorel Trifa, *Tehcnical 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*

Raportor: Mariana Dumitrescu, *Dunarea de Jos Galati University*

Secretary: Maricel Oanca

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
Electrica - Bucharest

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 Sîrbu

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
University of Pitești, Romania

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 Re-configurable 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 Sîrbu¹, 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 Lupoai¹, 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: Gheorghe Puscasu, *“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 Gavtat,

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*

Raportor: Mariana Dumitrescu, *Dunarea de Jos Galati University*

Secretary: Maricel Oanca

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 MUNTEANU²; Ion VONCILA²; Gelu GURGUIATU²; Sorin POPESCU³
 1 – AISE Galati; 2 - “Dunarea de Jos” University of Galati; 3 – SISE – „Muntania Nord” - Ploiesti
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. Lăzăroiu, N. Golovanov
 University POLITEHNICA of Bucharest, Romania
6. ***Flicker Generator as an useful tool in quality analysis***
 Dan Apetrei¹, Nicolae Golovanov², Alexandru Marcu¹
 1 – Electrica Bucharest; 2- 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: Gabriel Sîrbu

1. ***Optimal Coding for Qualitative Sources on Noiseless Channels***
 Valeriu Munteanu, Daniela Tărniceriu
 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 Tărniceriu, *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 Tetzlaff³1 - *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 – Registration

Stiintei -2 , Y Building, 1st floor.

09³⁰ - 10⁰⁰ – Welcome Coffee. FIEE - Stiintei -2, Y Building, Y 104.

10⁰⁰-11³⁰ – Special Session organized by ARIES, Y 106

Chairman: Paul Svasta, *University “Politehnica” of Bucharest, Romania*

Co-chairman: Dumitru Vlad, *Absolute IT Solution*

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

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

Secretary: Maricel Oanca

1. *Some aspects regarding the trends in the packaging of the microelectronics systems*

Paul Svasta

University “Politehnica” of Bucharest, Romania

2. *The IT role in modern corporations with examples and solutions*

Dumitru Vlad

Absolute IT Solution, President of European Operations

3.

Catalin Arama

Director of the IT Development Center, Galati

12⁰⁰ – 14⁰⁰ – Social event. Trip on Danube.

14⁰⁰ –14³⁰ – Symposium’s Formal Close and Farewell.