

ISEEE-2008 - FINAL PROGRAM AND TIME TABLE***Thursday, September 11*****18:00-20:00 – Registration**, Stiintei -2, Y Building, 1st floor**20:00–22:00 – Welcome meeting – Faculty’s Council Room**, Stiintei -2, Y Building, 1st floor***Friday, September 12*****09:00-10:00 – Registration**Stiintei -2, Y Building, 1st floor**10:00-10:15 -Open Session – Domneasca 111, D building, D02 amphitheatre.***Speakers:*

- *The Dean of the Electrical and Electronics Engineering Faculty*
- *The Rector of “Dunarea de Jos” Galati University, Romania*

10:15-12:00 – Plenary Session – Domneasca 111, D building, D02 amphitheatre.*Speakers:*

- *Liviu Goras, “Gh. Asachi” Technical University of Iasi, Romania*
- *Mihai Octavian Popescu, Claudia Popescu, “Politehnica” University of Bucharest*

12:00 – 12:30 – Coffee breakFIEE, Stiintei -2, Y Building, 1st floor, room Y-104.**12:30 – 14:00 – Module 1 – Paper presentation**

FIEE, Stiintei -2, Y Building, rooms Y-106, Y-305, Y-102, Y-405

14:00 - 16:00 – Lunch (room Y-105)**16:00 – 17:30 - Module 2 – Paper presentation**

FIEE, Stiintei -2, Y Building, rooms Y-106, Y-305, Y-101, Y-002, Y-102, Y-405.

17:30 – 18:00 – Coffee break

Room Y 104

18:00 – 19:30 - Module 3 – Paper presentationFIEE - Stiintei -2, Y Building, 1st floor, rooms Y-106, Y-305, Y-101, Y-405.**20:00 – 24:00 – Banquet (Continental Restaurant)*****Saturday, September 13*****09:00 – 10:00 – Registration**Stiintei -2, Y Building, 1st floor.**09:00 – 10:00 – Welcome Coffee.** FIEE - Stiintei -2, Y Building, Y 104.**10:00 - 12:00 – Module 4 – Paper presentation**FIEE - Stiintei -2, Y Building, 1st floor, rooms Y-106, Y-101, Y-002.**12:00 – 14:00 – Social event. Trip on Danube. First group.****14:00 – 16:00 – Social event. Trip on Danube. Second group.****14:00 – 18:00 – Formal Farewell**, Faculty’s Council Room, Y Building, 1st floor, room Y 109

THE PAPERS OF THE 1ST MODULE*Friday, September 12, 12:30 – 14: 00***ROOM Y-106****SCIENTIFIC AND TECHNICAL SECTION STS-1****PATTERN RECOGNITION AND SIGNAL PROCESSING****Chairman:** *Viorel NICOLAU***Co-chairman:** *Liviu GORAS***Secretary:** *Silviu EPURE*

1. Analysis of Some Pseudo-, Proto-, Hybrid, and De-Emphasized Distances, and Their Bio-Inspired Counterparts
Horia Nicolai Teodorescu
"Gheorghe Asachi" Technical University of Iasi
2. Representative Probability Tables for Fast Identification of Interesting Behaviors in Cellular Automata
Radu Dogaru^{}, Ioana Dogaru, and Hyongsuk Kim*
^{}University "Politehnica" of Bucharest*
3. Psycho-Physiological Signal Processing and Algorithm for Adaptive Light Control
Ovidiu Grigore^{}, Inge Gavut, Corina Grigore, and Marius Cotescu*
^{}"Politehnica" University of Bucharest*
4. Aspects of Data Clustering Using Partitive Algorithms Based on Potential Functions
V. Nicolau^{}, C. Miholca, and R. Popa*
^{}Dunarea de Jos University of Galati*
5. On thresholding for signal denoising with wavelets
Anisia Gogu^{}, Nicu Roman, Mugur Alexiu and Dorel Aiordachioaie*
^{}Dunarea de Jos University of Galati.*
6. Improving the Performance of Phoneme Recognition by using Phase Features
Abbasian, Ali^{}, and Marvi, Hossein*
^{}Shahrood University of Technology, Iran*
7. An Approach to Video Object Detection using Self-Organizing Map
G. Kavitha^{} and S. Ramakrishnan*
^{}Anna University, India*
8. Classification in Gnathophonics – Preliminary Results
H.N. Teodorescu^{}, and M. Feraru*
^{}"Gheorghe Asachi" Technical University of Iasi*

ROOM Y- 305*Friday, September 12, 12:30 – 14: 00***INVITED SPECIAL SESSION - SS1****WIND POWER - CONTROL,
OPERATION AND INTEGRATION INTO POWER SYSTEMS***Organized by Nicolaos A. CUTULULIS, and Florin IOV***Secretary:** *Cristinel DACHE*

1. European Power System with Large Amounts of Wind Power in 2015 – TradeWind Project
Nicolaos A. Cutululis^{}, Poul Sørensen, Magnus Korpås, Leif Warland^{*}*
Risø DTU, National Laboratory for Sustainable Energy, Denmark
2. Grid Faults Impact on the Mechanical Loads of Active Stall Wind Turbine
Nicolaos A. Cutululis^{}, Anca D. Hansen, Florin Iov and Poul Sørensen^{*}*
Risø DTU, National Laboratory for Sustainable Energy, Denmark
3. Fault Current Contribution from VSC-based Wind Turbines to the Grid
Massimo Valentini^{}, Vladislav Akhmatov, Florin Iov and Jan Thisted^{*}*
Institute of Energy Technology, Aalborg University, Denmark
4. Power Electronics: Key-Enabling Technology for Grid Integration of Wind Power
Florin Iov^{}, Mihai Ciobotaru, Nicolaos A. Cutululis and Frede Blaabjerg^{*}*
Institute of Energy Technology, Aalborg University, Denmark

ROOM Y-102

Friday, September 12, 12:30 – 14: 00

SPECIAL SESSION SS-8

ALEWIJNSE ELECTRICAL ENGINEERING EDUCATION FOR FUTURE

Organized by Mariana Dumitrescu

Secretary: *Gelu GURGUIATU*

1. Propulsion and energy optimization for ships. Considerations for selecting an optimal propulsion and electrical energy concept
*B.M. Krijgsman
Alewijnse B.V.*
2. Practical Education for Students. Companies and Universities Give Education Together - Alewijnse Holding Educational Program
M. Dumitrescu,^{} H. Van Wellie, J. Bokma^{*}*
Dunarea de Jos University of Galati
3. Hard Facts About Soft Skills
*I. Ernuteanu
Independent trainer*
4. Adapting the Dutch ‘know how’ to the reality of the engineering culture in Romania
Sorina Soaica^{}, Mariana Dumitrescu^{*}*
ATCR Romania
5. Profibus and Profinet Communication System
P. Tudorel^{}, S. Diana, T. Gabriel, C. Andrada^{*}*
ATCR Romania
6. The Design of a Fire Alarm Installation
Alexandru Radu^{}, Silviu Damian, Cosmin Ifrim, Valentina Nedelcu^{*}*
ATCR Romania
8. The Anti-Heeling System
Gabriel Calin,^{} Romica Beschea, George Dinca, Ionut Enache^{*}*
ATCR Romania
9. Software Simulation of PLC I/O
Daniel Dima^{}, Toporas Raluca, Orac Alexandru, Petrea Valentin^{*}*
ATCR Romania
10. Designing a Main Switch Board
Lucian Giusca^{}, Augustin Miron, Relu Ambrinoc, and Georgiana Bedregianu*

*ATCR Romania

11. Towards Developing a Managerial Approach for Engineering Education
*Anca Alexandra Purcarea**, and *Elena Fleaca*
**Politehnica University of Bucharest, Romania*

ROOM Y-405*Friday, September 12, 12:30 – 14: 00***SCIENTIFIC AND TECHNICAL SECTION STS-5****RENEWABLE ENERGIES AND POWER SYSTEMS****Chairman:** *Marian GAICEANU***Co-chairman:** *Gheorghe GEORGESCU***Secretary:** *Marius MAZAREL*

1. Moving Least Squares Model for Proton Exchange Membrane Fuel Cell
*R. Tirnovan**, *S. Giurgea*, and *A. Miraoui*
**Technical University of Cluj-Napoca*
2. Solid Oxide Fuel Cell Power Conditioning System
*Marian Gaiceanu**, and *Gianmichele Orsello*
**Dunarea de Jos University of Galati*
3. Renewable Energy Sources Investments: does the Financing seem to be a Barrier?
Mihai – Marius Voronca
Romanian Energy Efficiency Fund
4. The Promotion of Electricity Produced from Renewable Energy Sources through Green Certificates. Present and Future
*Georgeta Stanciulescu**, *Mihaela Jisa*, and *Nadina Stanciu*
**Romanian Energy Regulatory Authority*
5. The Outline of the Energy Consumers from the Distribution Electric Systems
*Gheorghe Georgescu**, *Viorel Varvara*, and *Bogdan Neagu*
**"Gh. Asachi" Technical University of Iasi*
6. Performance Standard for the Electricity Distribution Service in Romania
*Viorel Neagu**, and *Bogdan Minteanschi*
**ANRE – The Romanian Energy Regulatory Authority*

THE PAPERS OF THE 2ND MODULE*Friday, September 12, 16:00– 17:30***ROOM Y-106****SCIENTIFIC AND TECHNICAL SECTION STS-2****COMMUNICATIONS****Chairman:** *Radu DOGARU***Co-chairman:** *Nicolae Dumitru ALEXANDRU***Co-chairman:** *Viorel NICOLAU***Secretary:** *Silviu EPURE*

1. Spectral Analysis of Paired DMT Codes
N.D.Alexandru
“Gh. Asachi” Technical University of Iasi
2. Synchronization of Random Number Generators based on Cellular Automata with Application in Communication
Radu Dogaru^{}, Ioana Dogaru, and Hyongsuk Kim*
^{}University “Politehnica” of Bucharest*
3. Dynamic Channel Allocation Scheme Using Agents Technology
Gabriel Sirbu^{}, I. Bogdan*
^{}Dunarea de Jos University of Galati*
4. Modelling Aspects of a GSM Network in Galati Area for Intercellular Handover Control
V. Nicolau^{}, G. Huiban, and C. Miholca*
^{}Dunarea de Jos University of Galati*
5. Study on the usage of sockets for communication between partitions of an application
Claudiu Chiculita
Dunarea de Jos University of Galati
6. ZigBee Based Intelligent Home Network
Roxana Dragomir, and Claudiu Chiculita
Dunarea de Jos University of Galati

ROOM Y-305

Friday, September 12, 16:00– 17:30

SCIENTIFIC AND TECHNICAL SECTION STS-4

POWER ELECTRONICS AND ELECTRICAL DRIVES

Chairman: : *Emil ROSU*

Co-chairman: *Costel PETREA*

Secretary: *Cristinel DACHE*

1. Static frequency converter with two-quadrant converter at input for adjustable speed drive with regenerative braking
Alexa Dimitrie, Alexandrescu Al, Filote C., Pletea I.V., Goras T., Chiper R.
^{} “Gh. Asachi” Technical University of Iași*
2. Active Power Filter with Indirect Control for Line-Frequency Controlled Rectifiers
E. Rosu^{}, M. Culea, T. Dumitriu, T. Munteanu and R. Paduraru*
^{}Dunarea de Jos University of Galati*
3. Implementation and Performance Evaluation of the Digital Boost PFC Converter Working in DCM using DSPIC30F2010
C. Petrea^{}, M. Lucanu, C. Aghion, C. Pavel*
^{} “Gh. Asachi” Technical University of Iași*
4. Holistic Modelling of the Matrix Converter System and FPGA Controller using Handel-C
Adel Ghadedo^{}, Marcian Cirstea*
^{}Anglia Ruskin University, UK*
5. The Analysis of Three Phase Rectifier Switching Real Theory Approach
Neaca Mitica Iustinian
University of Craiova
6. About Modeling of conducted EMI
Eleonora Darie^{}, Costin Cepișcă*
^{}Technical University of Civil Engineering, Bucharest*
7. μ -Synthesis of Robust Controller via D-K Iteration for One Link Flexible Manipulator
Zamfir Mihaela Doina
“Gh. Asachi” Technical University of Iași

8. Sliding Mode Adaptation Scheme-Control for D.C. Series Motor

M.D. Zamfir

“Gh. Asachi” Technical University of Iași

9. Overcoming Large Time Delay Problem in Position Control of Drive System

Cristian VASILACHE

Dunarea de Jos University of Galati

ROOM Y-101

Friday, September 12, 16:00– 17:30

SPECIAL SESSION SS-7

ENERGY SAVING AND ITS QUALITY (*First Half*)

Organized by Petru POSTOLACHE, and Mariana DUMITRESCU

Secretary: *Gelu GURGUIATU*

- 1 Effect of Joule Heating on the Stability of Mechanical Equilibrium and Development of Electroconvective Phenomena in Conducting Liquids
Tudor P. Grosu , and Tudor M. Sajin*
**State Agricultural University of Moldova, Chisinau*
- 2 Evolution and Perspectives for Power Quality Topics in Power Engineering Curricula
Denisa Gh. Rusinaru
University of Craiova
- 3 Voltage and Frequency Stationarity - Case Study Analysis
Dan Apetrei , Petru Postolache*
**Electrica SA, Bucuresti*
- 4 Sustainable Development of Urban Electric Networks. The Concept of Urbistic
Laurentiu-Constantin Lipan , and Petru Postolache*
**University “Politehnica” of Bucharest*
- 5 Data System for The Monitoring of Power Quality at the border between The Transmission Network and Big Consumers
Fanica Vatra , Ana Poida, and Carmen Stanescu*
** Institute for Studies and Power Engineering - ISPE, Bucharest, Romania*
- 6 TIS Cultural Filtration, Implemented Within the Directional Relay Structure
N.F. Pinte, P. Postolache, C. Nitu, I. Diaconu, I.D. Hategan , and M.N. Oltean
University “Politehnica” of Bucharest

ROOM Y-002

Friday, September 12, 16:00– 17:30

SPECIAL SESSION SS-5 - WORKSHOP

COGENERATION SYSTEMS USING BIOGAS

Organized by Mihai Octavian POPESCU, and Grigore FETECAU

Secretary: *Ciprian VLAD*

- 1 Experiments on model about electrical and thermal energy cogeneration using biogas
M. Popescu , Bitir I., C.Ghita, Ioana Predescu, G. Fetecau, and M. Casariu*
**Politehnica University of Bucharest, Romania*
- 2 Aspects Regarding the Biogas Conversion Systems

- G. Fetecau^{*}, and M. Gaiceanu*
^{}Dunarea de Jos University of Galati*
3. Biogas- Electrical Energy Conversion System
- M. Gaiceanu^{*}, and G.Fetecau*
^{}Dunarea de Jos University of Galati*
4. Researches Regarding Magnet Permanent Synchronous Machines used in Biogas Energy Conversion Systems
- G.Fetecau^{*}, I. Voncila, and M. Gaiceanu*
^{}Dunarea de Jos University of Galati*

ROOM Y-102

Friday, September 12, 16:00– 17:30

SPECIAL SESSION SS-3

IMAGE PROCESSING ALGORITHMS

Organized by Daniela COLTUC

Secretary: *Elena LUNGU*

- 1 A Texture Recognition Method Based on Wavelet transform and Independent Component Analysis
- Elena Lungu^{*}, Daniela Coltuc, and Laurentiu Frangu*
^{}Dunarea de Jos University of Galati*
- 2 On Graylevel and Color Image Enhancement
- Dinu Coltuc*
Valahia University Targoviste
- 3 Image information mining for risk assessment in natural hazards
- Daniela Faur^{*}, Carmen Patrascu, Anca Popescu, Corina Vaduva, Inge Gavati, and Mihai Datcu*
^{}Politehnica University of Bucharest*
- 4 Automatic Cell Damage Evaluation Based on the Circular Hough Transform
- Ovidiu Grigore^{*} and Petru Voicu*
^{}“Politehnica” University of Bucharest, Romania*
- 5 From Circularity Measurement to Measures in Representation Spaces
- Jean-Marie Becker^{*}, Michel Goeb, and Andreea Smoaca*
^{}Ecole Supérieure de Chimie Physique et Electronique de Lyon, France*

ROOM Y-405

Friday, September 12, 16:00– 17:30

SCIENTIFIC AND TECHNICAL SECTION STS-6

MODELLING AND SIMULATION SOFTWARE ENGINEERING AND TOOLS

Chairman: *Ilie POPA*

Co-chairman: *Rustem POPA*

Secretary: *Marius MAZAREL*

1. Simulation of socio-economic fuzzy systems in an distributed programming environment - GRID169
*Zbancioc Marius Dan**, and *Laura Pistol*
**Institute for Theoretical Informatics of the Romanian Academy, Iasi Branch*
- 2.. The Design of a Magnetorheological Controller
*Florin Ravigan**, *Laurentiu Alboteanu*, and *Gheorghe Manolea*
**University of Craiova*
3. High speed issues in electronics: Mentor Graphics HyperLynx
*Catalin Iov**, and *Mircea Bogdan Slanina*
**TRIAS microelectronics SRL*
4. Electromechanical Models of IPMC as Artificial Muscle
Ilie Popa
University of Pitesti
5. Real-time computation of the optical flow in a log-polar geometry
*Marius Mazarel**, *Dan Dulman*, and *Anisia Gogu*
**Dunarea de Jos University of Galati*
6. About the Bifurcation Phenomenon in Nonlinear Systems Described by a Cubic Duffing Equation
Mihaela Cleju
“Ghe. Asachi” Technical University of Iasi

THE PAPERS OF THE 3RD MODULE

Friday, September 12, 18:00 – 19:30

ROOM Y-106

SCIENTIFIC AND TECHNICAL SECTION STS-3

ELECTRONIC CIRCUITS AND SYSTEMS

Chairman: *Emil SOFRON*

Co-chairman: *Rustem POPA*

Secretary: *Silviu EPURE*

1. FPGA Circuits for Evolvable Hardware
*Rustem Popa**, *Silviu Epure*, and *Viorel Nicolau*
**Dunarea de Jos University of Galati*
2. A small footprint bootloader for PIC microcontrollers
Claudiu Chiculita
Dunarea de Jos University of Galati
3. Microwave Passive Circuits Based on Metamaterials
*Gh. Gavriiloaia**, *E. Sofron*, and *T. Stefan cel Mare*
**University of Pitesti*
4. Modeling and Simulation of The Transistor BFG425W_ NPN_ WideBand
Mamadou Bah
Polytechnic University of Bucharest
5. Using Parallel Computation of the CRC on FPGA
C. Anton, *L. Ionescu*, *A. Mazare*, *G. Serban*
University of Pitesti

ROOM Y-305

Friday, September 12, 18:00 – 19:30

SPECIAL SESSION SS-2- WORKSHOP**TECHNOLOGIES AND EQUIPMENTS
FOR EFFICIENT RENEWABLE ENERGY CONVERSION***Organized by Dumitru FINTA, and Emil CEANGA***Secretary:** *Cristinel DACHE*

1. Small Power Photovoltaic Systems. Monitoring and Evaluation of Performances
Silvian Fara^{}, Dumitru Finta, Mihai Iancu, and Victoria Malihin^{*}*
SC IPA SA
2. A New System for the Recovery and Conversion of Black Sea Wave Energy
G. Iorga
ICEPRONAV Galati
3. Performance and Annual Electrical Energy Capture of a Low Power Wind Turbine
G. Iorga,
ICEPRONAV Galati
4. Development System for Experimental Research of Hybrid Renewable Energy Systems
Ciprian Vlad^{}, Iulian Munteanu, Antoneta Iuliana Bratcu, Ion Bivol, and Emil Ceanga^{*}*
Dunarea de Jos University of Galati
5. Structure and Control of a Low Power Autonomous Wind System
M. Druga^{}, C. Nichita, G. Barakat, B. Dakyo and E. Ceanga^{*}*
University of Le Havre, France
6. Chopper-Based Closed-Loop Current Control for Low Power Wind Energy Conversion Systems
Silviu Epure^{}, Iulian Munteanu, and Emil Ceanga^{*}*
Dunarea de Jos University of Galati

ROOM Y-101*Friday, September 12, 18:00 – 19:30***SPECIAL SESSION SS-7****ENERGY SAVING AND ITS QUALITY (SECOND HALF)***Organized by Petru POSTOLACHE, and Mariana DUMITRESCU***Secretary:** *Gelu GURGUIATU*

1. Its Time for the Linear Code
N.F. Pinte, P. Postolache, M. Eremia, and M.N. Oltean
University "Politehnica" of Bucharest
2. Risk Strategy for Electricity Utilities Companies
Simona Louise Voronca
Transelectrica S.A.
3. Studies Concerning the Quality of Electrical Energy into the Electromagnetic Supply Networks
C. Balanuta^{}, T. Munteanu, M. Dumitrescu, G. Gurguiatu, and C. Vlad^{*}*
Dunarea de Jos University of Galati
4. Contributions to the Optimization of the Paper Draying Process
Aneta Hazi^{}, and Gheorghe Hazi^{*}*
University of Bacau
5. The integration of wind power plants into power system

D. Dragomir , N. Golovanov, P. Postolache*
**ROMANIAN STANDARDS ASSOCIATION*

6. A Technique for Optimising the Reconfiguration of Electrical Distribution Networks
B. Tomoiaga and M. Chindris*
**Technical University, Cluj-Napoca*

ROOM Y-405

Friday, September 12, 18:00 – 19:30

SCIENTIFIC AND TECHNICAL SECTION STS-7

INDUSTRIAL APPLICATIONS

Chairman: *Razvan MAGUREANU*

Co-chairman: *Ion VONCILA*

Secretary: *Marius MAZAREL*

1. Advanced Electric Ship Propulsion
Razvan Magureanu , and Mihaela Albu*
**Politehnica University of Bucharest*
2. Design of Gain Scheduling Based Longitudinal and Lateral Autopilots for a UAV
K. Senthil Kumar , R. Madhan, and J. Shanmugam*
**Madras Institute of Technology, Anna University, India*
3. Solidification Length Estimator for Steel Continuous Casting
M. Munteanu , I. Bivol, and E. Ceanga*
**Dunarea de Jos University of Galati*
4. Pressure Influence on the Metal Beam Geometry under Hyperbaric Dry Welding – M.I.G. by Analyzing the Electric Arc Signal Power Spectrum
Constantin Miholca , Viorel Nicolau, Cristian Munteanu, and Danut Mihailescu*
**Dunarea de Jos University of Galati*
5. Accurate Localization of Communicant Vehicles using GPS and Vision Systems
G. Challitav , S. Mousset, F. Nashashibi, and A. Bensrhair*
**LITIS Laboratory of the INSA of Rouen, France*
6. System for Thermographic Images Collecting-Administration-Processing in Industrial Processes
Popescu Constantin, and N. Boteanu
University of Craiova
7. The influence of the magnetic field upon the potable water
Ion Voncila , and Elena Dorosencu*
**Dunarea de Jos University of Galati*
8. Remote Video Tracking System Based On Computer Vision
Liviu O. Petcu
Dunarea de Jos University of Galati

THE PAPERS OF THE 4TH MODULE

Saturday, September 13, 10:00 – 12:00

ROOM Y-106

INVITED SPECIAL SESSION – SS 9

EMERGING TECHNOLOGIES**Chairman:** *Paul SVASTA, University "Politehnica" of Bucharest, Romania***Co-chairman:** *Nicolae Marasescu "Dunarea de Jos" Galati University, Romania***Co-chairman:** *Laurentiu Frangu, "Dunarea de Jos" Galati University, Romania***Secretary:** *Silviu EPURE*

1. Typical Concepts, Standards and Assembling Technologies for Second Level of Interconnections In Electronic Packaging Hierarchy

Paul SVASTA, and Ion Plotog
University "Politehnica" of Bucharest, Romania*

1. IPC Standards and Certification Possibilities

*Augustin Stan
IPC- Association Connecting Electronic Industries - Romania*

2. Practical applications of Vapour Phase Soldering Technology

*Gaudentiu Varzaru
Business Development INTRAROM SA*

ROOM Y-101***Saturday, September 13, 10:00 – 12:00*****SPECIAL SESSION SS-6 - WORKSHOP****EOLIAN SYSTEMS FOR CLEAN ENERGY PRODUCTION***Organized by Constantin GHITA, and Nicolae BADEA***Secretary:** *Ciprian VLAD*

- 1 Laboratory model of an aeolian system that generates electricity including the simulation of the driving turbine

Constantin Ghița, D. Deaconu, Aurel Chirila, Valentin Navrapesc, and Daniel Iliina
Politehnica University of Bucharest, Romania

2. The Energy Quality for a Fixed-Speed Wind Turbine with SCIG Directly Connected to the Grid

Nicolae Badea, and Ion Voncila
Dunarea de Jos University of Galati

3. SCIG wind turbine control system simulation models

Dragoș Deaconu, Aurel Chirila, Constantin Ghita, and Valentin Navrapescu
Politehnica University of Bucharest, Romania

4. Modelling of small wind turbines in power system simulation software

Nicolae Badea, Ion Voncila, and Gelu Gurguiatu
Dunarea de Jos University of Galati

ROOM Y-002*Saturday, September 13, 10:00 – 12:00***SPECIAL SESSION SS-4 - WORKSHOP****INTEGRATED DESIGN SOLUTIONS OF ELECTRIC MACHINES
WITH A VIEW TO SAVING NATURAL AND ARTIFICIAL RESOURCES***Organized by Nicolae VASILE, and Ion VONCILA***Secretary:** *Marcel OANCA*

1. Mathematical Models And Solutions For The Embedded Design Of Motors With A View To A Rational Use Of Natural And Artificial Resources
Nicolae Vasile^{}, Mihaela Scortescu, Mihaela Chefneux, Leonard Melcescu, Mircea Radulescu, Alecsandru Simion, and Ion Voncila^{*}*
^{}ICPE Bucharest, Romania*
2. Integrated design approach for energy-efficient brushless DC motors
M.M. Radulescu^{}, V. Trifa, I. Vese, C. Simon, Carmen Ciurtin, and C. Marginean^{*}*
^{}Technical University of Cluj-Napoca*
3. The Electrical Machine – Environment Interaction, a Case Study on the Homopolar Structure
Al. Simion^{}, L. Livadaru, M. Cojan, D.D. Lucache, A. Munteanu, and R. Hanganu^{*}*
^{}Technical University of Iași*
4. An Efficient Solution for the Embedded Design of Motors with Soft Magnetic Composites
Mihaela Chefneux^{}, Stelian Marinescu, Adriana Chitez^{*}*
^{}ICPE Bucharest, Romania*
5. High power density brushless motors
Paul Minciunescu^{}, Stelian Marinescu, Corina Minciunescu^{*}*
^{}ICPE Bucharest, Romania*
6. Numerical Models of a DC Permanent Magnet Motor Based on 2D FEM Field Computation
Leonard Melcescu^{}, Ovidiu Craiu, Petre Combei, Daniel Serban, and Mircea Covrig^{*}*
^{}“Politehnica” University of Bucharest, Romania*
7. The modelling of the electrical machines that use alternating current, which are in a continuous interaction with the environment, for the in-built design
Ion Voncila^{}, Nicolae Badea, Cristian Munteanu, Razvan Buhosu, and Marcel Oanca^{*}*
^{}Dunarea de Jos University of Galati*