



MINISTRY OF EDUCATION AND RESEARCH



UNIVERSITY OF CRAIOVA



FACULTY OF ELECTRICAL ENGINEERING



9<sup>th</sup> International Conference on Applied and Theoretical Electricity

**ICATE 2008**

11<sup>th</sup> Symposium on Cryoelectrotechnics and Cryogenics

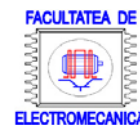
**SCC11**

Craiova, October 9-11, 2008

*Conference programme*

**CO-ORGANIZERS**

- ▶ ROMANIAN ACADEMY - Energy Commission
- ▶ IEEE – Romanian Section
- ▶ Electromechanical Faculty, University of Craiova
- ▶ Association OLTENIA-FRANTA (Romania)
- ▶ Association FRANCE-OLTENIE (France)
- ▶ Research, Development and Testing National Institute for Electrical Engineering Craiova (ICMET)
- ▶ Advanced Research Institute for Electrical Engineering Bucharest (ICPE – CA)
- ▶ Transelectrica SA – Craiova Branch
- ▶ SC ELECTROPUTERE SA Craiova



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VASILIEVICI Alexandru – *Politehnica University of Timisoara*  
YATCHEV Ivan – *Technical University of Sofia*

## ***Schedule***

### **Thursday, October 9**

- 9:00 – 10:00 *Registration of participants at “Casa Universitarilor”, Craiova,  
Str. Unirii, nr. 57 (Foyer)*
- 10.00 – 10.30 *Opening ceremony (Eminescu Salon)*
- 10:30 – 13:00 *Plenary Session*
- 13:00 – 14:30 *Lunch break (Romanescu Salon)*
- 15:00 – 17:00 *Thematic Section Session*
- 17:00 – 17:30 *Coffee break*
- 17:30 – 19:30 *Thematic Section Session*
- 20.00 *Banquet (Red Salon)*

### **Friday, October 10**

- 10:00 – 12:00 *Thematic Section Session*
- 12:00 – 15:00 *Lunch break*
- 15:00 – 17:00 *Thematic Section Session*
- 17:00 – 18.00 *Coffee break*
- 18.00 – 19.00 *Closing Ceremony*

### **Saturday, October 11**

- 9:00 – 11:00 *Social programs*

## Plenary session

- ▶ **MODÈLES MATHÉMATIQUES NON LINÉAIRES DYNAMIQUES DE LA MACHINE SYNCRONE À PÔLES SAILLANTS** – Aurel CÂMPEANU, I. CAUȚIL, University of Craiova
- ▶ **Non Conventional HV Measuring Systems based on Optoelectronic Technology. ICMET Experience** – Andrei MARINESCU, ICMET Craiova
- ▶ **MAGNETIC FIELD OF RECTANGULAR BUSBARS** – Grigore CIVIDJIAN, University of Craiova
- ▶ **Driving Innovation in Electrical Engineering with ANSYS Simulation Solutions** – Constantin CIOLOFAN, Ioana TIRCOMNICU, INAS S.A. Craiova

## Thematic sessions:

- S1: Theoretical Electricity**, papers 1.1 – 1.6
- S2: Electrical Equipments and Technologies**, papers 2.1 – 2.12
- S3: Electrical Machines and Drives**, papers 3.1 – 3.9
- S4: Power Engineering Systems**, papers 4.1 – 4.12
- S5: Applied Informatics in Electrical Engineering**, papers 5.1 – 5.5
- S6: Aerospace Engineering**, papers 6.1 – 6.9
- S7: Control Engineering and Applied Electronics**, papers 7.1 – 7.6
- S8: Environment Engineering and Equipments**, papers 8.1 – 8.2
- S9: Electric Transportation Systems**, papers 9.1 – 9.4
- S10: Cryoelectrotechnics and Cryogenics**, papers 10.1 – 10.3

## Paper distribution and chairmen

		<i>Hillary Salon</i>	<i>Moisil Salon</i>	<i>Green Salon</i>
<i>Thursday, October 9</i>	15:00 – 17:00	1.1 – 1.6 Eleonor STOENESCU Viorel VARVARA	2.1 – 2.6 Andrei MARINESCU Dorin Dumitru LUCACHE	3.1 – 3.6 Viorel TRIFA Dan FLORICAU
	17:30 – 19:30	9.1 – 9.4 Petre-Marian NICOLAE Doru Adrian NICOLA	2.7 – 2.12 Grigore A. CIVIDJIAN Iuliu DELESEGA	3.7 – 3.9; 8.1 – 8.2 Ioan POPA Cornel IANACHE
<i>Friday, October 10</i>	10:00 – 12:00	4.1 – 4.6 Ion MIRCEA Gheorghe MANOLEA	5.1 – 5.5 Mircea CHINDRIS Matei VINATORU	6.1 – 6.6 Ștefan LUŽICA Romulus LUNGU
	15.00 – 17.00	4.7 – 4.12 Silvia - Maria DIGA Ion GOȘEA	7.1 – 7.6 Elena HELEREA Dan MIHAI	6.7 – 6.9; 10.1 – 10.3 Florian STEFANESCU Dorin CONDURACHE

## ***Titles and authors***

### **S1: Theoretical Electricity**

- 1.1. THE COMPUTATION OF THE POWER FACTOR IN NETWORKS RUNNING IN DISTORTING AND NONSYMMETRICAL STATES - *Viorel VARVARA*
- 1.2. ON THE SENSITIVITY ANALYSIS OF ANALOG CIRCUITS - *Mihai IORDACHE, Lucia DUMITRIU, Dragos NICULAE*
- 1.3. SIMULATION DES REGIMES TRANSITOIRES PARTICULIERS DANS LES CIRCUITS OSCILLANTS AUX INDUCTANCES NON LINEAIRES - *Marian BADEA, Dan Gabriel STĂNESCU*
- 1.4. CALCUL DU CHAMP ÉLECTRIQUE ET DES CAPACITÉS PARTIELLES D'UNE LIGNE ÉLECTRIQUE AÉRIENNE À HAUTE TENSION - *Saul PASARE*
- 1.5. CALCUL DU CHAMP MAGNÉTIQUE D'UNE LIGNE ÉLECTRIQUE AÉRIENNE À HAUTE TENSION - *Saul PASARE*
- 1.6. THE ANALYSIS OF UNSTEADY FIELDS SHIELDING EFFICIENCY USING DOUBLE LAYERED SHEETS - *Petre-Marian NICOLAE, Eleonor STOENESCU, Marius VOINEA*

### **S2: Electrical Equipments and Technologies**

- 2.1. HIGH-VOLTAGE ALTERNATING CURRENT TESTING INSTALLATION - *Efim BADINTER, Iulian COLPACOVICI, Dumitru COJOCARU*
- 2.2. THE DESIGN OF A MAGNETORHEOLOGICAL CONTROLLER - *Florin RAVIGAN, Gheorghe MANOLEA, Niculae BOTEANU*
- 2.3. VARISTORS – OPERATING AND CHOICE TO PROTECT TELECOMMUNICATION EQUIPMENT - *Iuliu DELESEGA*
- 2.4. AN EXAMPLE OF SPICE MODELLING FOR ELECTROTHERMAL PHENOMENA - *Mitică Iustinian NEACĂ, Andreea Maria NEACĂ*
- 2.5. ABOUT AXIAL CLAMPING FORCE MONITORING AT POWER TRANSFORMER WINDINGS DURING THEIR ACTIVE LIFETIME - *Andrei MARINESCU, Carmen Livia UNGUREANU*
- 2.6. FINITE ELEMENT ELECTROMAGNETIC 2D MODEL OF AN EDDY CURRENT HEATER WITH ROTATING PERMANENT MAGNETS - *Virgiliu FIREȚEANU, Onur NEBI*
- 2.7. INITIAL MAGNETIC FIELD DISTRIBUTION AROUND RECTANGULAR BUSBARS - *Grigore A. CIVIDJIAN*
- 2.8. POWER TRANSFORMER INCIPIENT FAULTS MONITORING - *Cristina CIULAVU, Elena HELEREA*
- 2.9. REMOTE MONITORING OF TEMPERATURES IN AN ELECTRIC CELL - *Florin RAVIGAN, Alexandru NOVAC, Laurentiu ALBOTEANU, Serghie VLASE, Marian DUTA, Cristian SALCEANU*
- 2.10. MATLAB APPLICATION DEDICATED TO THE AUTOMATIC CIRCUIT BREAKER SELECTION CORRESPONDING TO THE NETWORK TECHNICAL PARAMETERS - *Maria BROJBOIU, Virginia IVANOV, Cristina POPESCU*
- 2.11. ELECTRO-OSMOSIS IN DEWATERING OF PULP AND PAPER WASTE SLUDGE - *Dorin Dumitru LUCACHE, Adrian BULGARU, Dan IOACHIM*
- 2.12. 3D FINITE ELEMENT MODELLING OF A PERMANENT MAGNET ELECTROMAGNETIC VALVE ACTUATOR - *Ivan YATCHEV, Krastyo HINOV, Vultchan GUEORGIEV*

### **S3: Electrical Machines and Drives**

- 3.1. FINITE ELEMENT ANALYSIS OF DYNAMIC BEHAVIOR OF SALIENT POLES SYNCHRONOUS MOTOR - *Virgiliu FIREȚEANU, Petrică TARAȘ*
- 3.2. TOTAL LOSS DISTRIBUTION IN THREE-LEVEL STACKED NPC CONVERTER - *Dan FLORICAU, Dragos KISCH, Ioan POPA*
- 3.3. VIBRATION AND CURRENT MONITORING FOR FAULT'S DIAGNOSIS OF INDUCTION MOTORS - *Mariana IORGULESCU, Robert BELOIU*
- 3.4. DESIGN AND FEM ANALYSIS OF A SPECIAL RELUCTANT MOTOR FOR DRIVING LIGHT ELECTRIC VEHICLES - *Viorel TRIFA, Calin MARGINEAN, Olivia TRIFA*
- 3.5. ELECTROMAGNETIC TORQUE RIPPLES AND DYNAMIC BEHAVIORS OF BPM MOTORS - *Petrică TARAȘ, Tiberiu TUDORACHE, Virgiliu FIREȚEANU*
- 3.6. SWITCHED RELUCTANCE MOTORS WITH CONCENTRATED STATOR WINDINGS AND SALIENT POLES OF DIFFERENT SHAPE ON ROTOR - *Nicoleta MEDREA, Ioan Adrian VIOREL*
- 3.7. SENSORLESS SPEED CONTROL SYSTEMS BASED ON ADAPTIVE OBSERVERS LUENBERGER AND GOPINATH - *Marius-Aurelian PICIU, Laurențiu ALBOTEANU*
- 3.8. CONTRIBUTION TO THE VEHICLE TRAFFIC CONTROL - *Bogdan Catalin ILIESCU*
- 3.9. ABOUT SOME POSSIBILITIES FOR OPTIMIZING OF OPERATION REGIMES OF ASYNCHRONOUS MOTORS USED IN DRIVING OF DEEP PUMPING INSTALLATION - *Cornel IANACHE, Boris SIRO*

### **S4: Power Engineering Systems**

- 4.1. INDUCTION MOTOR STARTING IN A POWER SYSTEM USING EDSA PALADIN DESIGNBASE SOFTWARE - *Nicoleta MEDREA, Andrea DEMEAN*
- 4.2. METHODS FOR MAINTENANCE OPTIMIZATION OF POWER SYSTEM COMPONENTS - *Florin MUNTEANU, Ciprian NEMES*
- 4.3. OPTIMIZATION OF THE CIRCUIT BREAKER MAINTENANCE USING THE DISTRIBUTION OF SWITCHING NUMBER - *Ciprian NEMES, Florin MUNTEANU*
- 4.4. METHODS OF MODELING FOR PHOTOVOLTAIC CELLS - *Laurentiu ALBOTEANU, Gheorghe MANOLEA, Florin RAVIGAN*
- 4.5. SOME EFFECTS OF DISTRICT HEATING SYSTEMS REHABILITATION MEASURES - *Liviu RUIENEANU, Ion MIRCEA, Ion GOȘEA*
- 4.6. COMPARISON CONCERNING TO THE COGENERATION SYSTEMS DEVELOPMENT - *Radu-Cristian DINU, Ion MIRCEA, Emilia-Marinela DINU*
- 4.7. TRANSIENT RESPONSE OF THE AIR HANDLER-ROOM SYSTEM IN AIR CONDITIONING APPLICATIONS - *Bogdan DIACONU, Sorin CURELEANU*
- 4.8. MODERN CALCULUS ASPECTS FOR ISOLATED NEUTRAL ELECTRICAL SYSTEMS - *Silvia - Maria DIGA, Denisa RUSINARU, Cristian BRATU*
- 4.9. RESULTS REPRODUCIBILITY OF FRA DIAGNOSIS METHOD APPLICATION AT POWER TRANSFORMERS - *Andrei MARINESCU, Ionel DUMBRAVA, Dan STEFAN*
- 4.10. MODELISATION MATHEMATIQUE DU FOYER DE LA CHAUDIER ENERGETIQUE CLASSIQUE - *Adelaida DUINEA, Ion MIRCEA*
- 4.11. MODELISATION MATHEMATIQUE DU FONCTIONNEMENT D'UN ECHANGEUR DE CHALEUR - *Adelaida DUINEA*
- 4.12. TESTS ON POWER TRANSFORMERS - *Cristina CIULAVU, Elena HELEREA*

## **S5: Applied Informatics in Electrical Engineering**

- 5.1. VIRTUAL INSTRUMENT FOR THE ANALYSIS OF LOAD CURVES - *Anca MIRON, Mircea CHINDRIS, Andrei CZIKER*
- 5.2. LOCAL AREA NETWORKS DATA TRANSMISSION ISSUES - *Diana ANGHELINA, Florin NISTREA, Matei VINATORU, Eugen IANCU*
- 5.3. ABSORPTION PROPERTIES OF THE RADIO ABSORBING MATERIALS - *Dumitru CAZACU, Constantin STANESCU*
- 5.4. NUMERICAL DETERMINATION OF RECTANGULAR BUSBARS TRANSIENT PARAMETERS - *Alin-Iulian DOLAN, Grigore A. CIVIDJIAN*
- 5.5. SELF-ASSEMBLY ZnO NANOSTRUCTURES FOR NANOSCALE DEVICES APPLICATIONS - *Oleg LUPAN, Victor SONTEA, Lee CHOW, Leonid CHERNYAK, Serghei RAILEAN*

## **S6: Aerospace Engineering**

- 6.1. HYPERBOLIC PASSIVE SURVEILLANCE SYSTEM EFFICIENCY FOR UNMANNED AERIAL VEHICLE SURVEILLANCE IN THE AIRSPACE - *Štefan LUŽICA, Pavel GRECMAN, Radim BLOUDÍČEK*
- 6.2. STUDY ON THE CRITICAL CANCELLING SPEED FOR THE HORIZONTAL EMPENNAGE CONTROL IN A CANARD CONFIGURATION IN AN ATMOSPHERE WITH ASCENDING VERTICAL GUSTS - *Octavian PREOTU*
- 6.3. JET ENGINE'S ROTATION SPEED CONTROL BASED ON THE FUEL'S INJECTION DIFFERENTIAL PRESSURE'S CONTROL - *Alexandru Nicolae TUDOSIE*
- 6.4. JET ENGINE'S ACCELERATION'S CONTROLLER WITH RESPECT TO THE ROTATION SPEED- *Alexandru Nicolae TUDOSIE*
- 6.5. IMPACT POINT DETERMINATION FOR THE AIRDROPPED BOMBS BY MEANS OF ACUSTIC METHODS. PART 1: CASE ANALYSE AND NUMERICAL SIMULATION - *George Dragos SANDU, Teodor Lucian GRIGORIE*
- 6.6. IMPACT POINT DETERMINATION FOR THE AIRDROPPED BOMBS BY MEANS OF ACUSTIC METHODS. PART 2: EXPERIMENTAL STUDY- *George Dragos SANDU, Teodor Lucian GRIGORIE*
- 6.7. MODELING AND CONTROL OF HIGH POWER INVERTERS - *Jenica Ileana CORCAU, Pompiliu CONSTANTINACHE*
- 6.8. NEURO – ADAPTIVE COMMAND SYSTEMS FOR ROCKETS' MOVE - *Romulus LUNGU, Mihai LUNGU*
- 6.9. AIRCRAFTS' MOVE STABILISATION USING OPTIMAL CRITERIA AND LINEAR STATE OBSERVERS - *Mihai LUNGU*

## **S7: Control Engineering and Applied Electronics**

- 7.1. USING SMS MESSAGES FOR THE TRANSMISSION OF DIGITAL AND ANALOGUE SIGNALS ACQUIRED BY S87C552 MICROCONTROLLER - *Petrut DUMA*
- 7.2. ON THE DESIGN OF A NEURO-FUZZY CONTROLLER FOR THE VECTOR CONTROL STRATEGY. DATA PREPARING. - *Dan MIHAI*
- 7.3. ON THE DESIGN OF A NEURO-FUZZY CONTROLLER FOR THE VECTOR CONTROL STRATEGY. TUNING AND RESULTS. - *Dan MIHAI*
- 7.4. EXPERIMENTAL STUDY OF THE POWER FACTOR COMPENSATION CONVERTER - *Francisc Torok SZOMBATFALVI, Emil SIMION, Dan Doru MICU, Denisa STET, Mihaela PLESA, Laura DARABANT*
- 7.5. ABOUT THE CHARACTERISTICS OF A DC CURRENT TRANSDUCER WITH HALL SENSOR - *Ioan D. OLTEAN, Elena HELEREA*
- 7.6. DATA ACQUISITION SYSTEMS FOR THE MONITORING OF DELTA THREE-PHASE LOADS AT LOW VOLTAGE - *Ileana-Diana NICOLAE, Ion PURCARU, Dinut-Lucian POPA, Marian-Stefan NICOLAE*

## **S8: Environment Engineering and Equipments**

- 8.1. ENERGY EFFICIENCIES OF A PHOTOVOLTAIC/THERMAL SOLAR HYBRID SYSTEM - *Mitica Iustinian NEACA, Andreea Maria NEACA*
- 8.2. EVALUATION OF SOLAR IRRADIANCE TO A FLAT SURFACE ARBITRARILY ORIENTED - *Cristian BRATU*

## **S9: Electric Transportation Systems**

- 9.1. SIMULINK LIBRARY OF HIGH SPEED TRAINS CONTROL - *Daniel Cristian CISMARU, Doru Adrian NICOLA*
- 9.2. ABOUT COMMAND FEATURES OF AN ELECTRIC DRIVING SYSTEM BASED ON ASYNCHRONOUS MOTOR AND INVERTER USED FOR URBAN TRACTION - *Dan Gabriel STANESCU, Petre Marian NICOLAE, Mircea Emilian ARDELEANU*
- 9.3. SOLUTION FOR SPEED REGULATION AND RIPPLES LIMITATION IN THE ELECTRIC TRACTION - *Ioana-Gabriela ȘÎRBU, Lucian MANDACHE, Ileana-Diana NICOLAE*
- 9.4. CONCEPTION OPTIMALE DE FILTRES PASSIFS DESTINES A AMELIORER LA QUALITE DE L'ENERGIE REQUISE PAR UN RESEAU DE TRACTION URBAINE - *Lucian MANDACHE, Ioana-Gabriela ȘÎRBU, Mircea-Emilian ARDELEANU*

## **S10: Cryoelectrotechnics and Cryogenics**

- 10.1. SYSTEMES DE STOCKAGE DE L'ENERGIE ELECTRIQUE - *Florian STEFANESCU*
- 10.2. FROZEN HIGH ALLOYED STEELS - *Vasile BULANCEA, Dorin CONDURACHE, Diana Antonia GHEORGHIU*
- 10.3. STUDY REGARDING THE MECHANICAL BEHAVIOUR OF THE POLYMERIC COMPOSITES MATERIALS AT CRYOGENIC TEMPERATURE - *Constantin POPESCU, Horatiu IANCAU, Liana HANCU, Alina CRAI*



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Matei VÎNATORU	5.2
Marius VOINEA	1.6

**Y**

Ivan YATCHEV	2.12
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