



University of **CRAIOVA**
Faculty for Engineering in
Electromechanics,
Environment and
Industrial Informatics



Technical University of
Moldova **CHIȘINĂU**

Faculty of Power
Engineering



Technical University
"Gh. Asachi" **IAȘI**

Faculty of Electrical
Engineering

PROGRAMME



THE **6th** INTERNATIONAL CONFERENCE ON
ELECTROMECHANICAL AND POWER
SYSTEMS

SIELMEN 2007

October 4 – 6, 2007

CHIȘINĂU

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Nicolaie MOGOREANU	<i>Chișinău</i>	Florian STEFANESCU	<i>Craiova</i>
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Ilie NUCĂ	<i>Chișinău</i>	Ion VONCILĂ	<i>Galați</i>
Teodor PANĂ	<i>Cluj-Napoca</i>		

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Natalia CHIRIȚĂ	Chișinău

CONFERENCE PROGRAMME

Thursday, 4th October 2007

10⁰⁰ -13⁰⁰ **Registration** of the participants and distribution of conference materials (Conference proceedings volume, expanded program).
Building of the Union Confederation of Moldova, Chişinău.
Avenue 31 August 1989, N° 129

13⁰⁰ -14³⁰ **Plenary Session**
Building of the Union Confederation of Moldova, Chişinău.
Avenue 31 August 1989, N° 129

14³⁰ -15³⁰ Lunch Break

15³⁰ -19⁰⁰ **Thematic Section Sessions**
Faculty of Power Engineering Chişinău Str. 31 August, N° 78

19⁰⁰ **Depart** to the Student Campus

19³⁰ -23⁰⁰ **Festive dinner**
Student Campus

Friday, 5th October 2007

8³⁰ -14⁰⁰ **Thematic Section Sessions**
Faculty of Power Engineering Chişinău Str. 31 August, N° 78

14⁰⁰ -15⁰⁰ Lunch Break

15⁰⁰ -15³⁰ **Closing Session of the SIELMEN 2007 Conference**

16⁰⁰ Visit of one famous winery (optional)

Saturday, 6th October 2007

Social Programme

PLENARY SESSION

Thursday, 4th October 2007 13⁰⁰ -14³⁰

Chairmen: Tudor AMBROS, Lorin CANTEMIR,
Aurel CÂMPEANU, Petru TODOS

Tudor AMBROS	COSMICAL ELECTROMECHANICS. COSMICAL POWER CONVERTER
Alexandru BITOLEANU, Mihaela POPESCU, Mihaita LINCA	INSTANTANEOUS COMPLEX APPARENT POWER THEORY AND APPARENT POWER DEFINITIONS – CASE STUDIES
Dorin LUCACHE, Vasile HORGA, Marcel RĂȚOI, Alecsandru SIMION, Mihai ALBU	MOTORING REGIME CONTROL OF AN INTERIOR PERMANENT MAGNET SYNCHRONOUS MACHINE
Petru TODOS, Andrei CHICIUC, Jorj CIUMAC, Stela ȚICUL	SYSTEME INSTITUTIONNEL DE MANAGEMENT DE LA QUALITE

THEMATIC SECTIONS OF THE CONFERENCE

ELECTRICAL DRIVES

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 239

Chairmen: Ion SOBOR , Viorel TRIFA

Aurel-Ionuț CHIRILĂ, Ioan-Dragoș DEACONU, Constantin GHIȚĂ and Ion Daniel ILINA	INDUCTION MOTORS DYNAMIC REGIMES ANALYSIS METHODS
Eugen SUBȚIRELU	VIRTUAL MEASUREMENT SYSTEM FOR DETERMINATION AND STUDY OF THE PER- PHASE EQUIVALENT CIRCUIT PARAMETERS
Katalin AGOSTON	SENSORLESS SMALL PERMANENT MAGNET BRUSHLESS MOTOR DRIVES
Ioan RUJA and Teodor GAVRIȘ	A STUDY OF THE TECHNICAL PERFORMANCES OF THE EXECUTION ELEMENT ASYNCHRONOUS MOTOR – FREQUENCY INDIRECT STATIC CONVERTER
Ion SOBOR, Ilie NUCĂ, Valeriu RÂMBU	PARAMETERS AND CHARACTERISTICS DETERMINATION OF COMOUNDED D.C. MOTOR
Viorel TRIFA, Calin RUSU, Calin MARGINEAN	STUDY AND DESIGN OF A SPECIAL RELUCTANT MOTOR FOR DIRECT ELECTRICAL DRIVE OF A BICYCLE
Nicușor TOTOR	TORQUE PULSATIONS MINIMIZATION AT STARTING OF A SMALL POWER INDUCTION MOTOR BY USING A PASIVE FILTER
Nicușor TOTOR	THE INFLUENCE OF SWITCHING CURRENT TRANSIENTS IN SMALL POWER INVERTER FED INDUCTION MOTORS
Iulian ȚOPA, Laurențiu DIAONU and Adrian DĂNILĂ	AN IMPROVED SPEED AND FLUX-LINKAGE ESTIMATION STRUCTURE FOR INDUCTION MACHINES' SENSORLESS CONTROL SYSTEMS

Iulian ȚOPA, Laurențiu DIACONU and Adrian DĂNILĂ	A FIELD ORIENTED BASED METHOD FOR DTC OF INDUCTION MOTOR
Alexandru SĂVULESCU	ASPECTS OF VARIABLE SPEED CONTROL OF ASYNCHRONOUS MOTORS THROUGH THE TECHNIQUE OF SPACE VECTOR MODULATION
Alexandru SĂVULESCU	THE ANALYSIS AND THE SIMULATION OF THE SVM GENERATOR USED FOR THE CONTROL OF THE ELECTRIC DRIVES WITH ASYNCHRONOUS MOTORS
Marius – Aurelian PICIU	COMPARISON BETWEEN LUENBERGER OBSERVER AND GOPINATH OBSERVER USED IN ELECTRICAL DRIVES SYSTEMS WITHOUT SENSORLESS
Ana BOBĂIANU	THE OPERATION OPTIMIZATION OF AN INDUCTION MOTOR FED BY A PWM INVERTER
Ana BOBĂIANU	ASSOCIATE MODEL OF AN INDUCTION MOTOR FED BY A PWM INVERTER

ELECTRICAL APPARATUS

Friday, 5th October 2007 08³⁰ -11⁰⁰

Room 239

Chairmen: Eugen HNATIUC, Ioan POPA

Maricel ADAM, Adrian BARABOI, Catalin PANCU	MONITORING AND DIAGNOSTIC SYSTEM FOR HIGH VOLTAGE CIRCUIT BREAKERS
Radu BURLICA, Eugen HNATIUC, Bogdan HNATIUC	THE ANALYTICAL EVALUATION OF THE CONNECTING TIME FOR THE AC ELECTROMAGNETIC COMMUTATION APPARATUSES WITH CONTACTS
Eugen HNATIUC, Adrian PLEȘCA, Bogdan HNATIUC	THE AC SINGLE-PHASE ELECTROMAGNETS' OPERATING SUPPLIED WITH DOUBLE RECTIFIED VOLTAGE

Cătălin PANCU, Adrian BARABOI, Maricel ADAM	HARDWARE/SOFTWARE STRUCTURE FOR THE CONTACT RESISTANCE ESTIMATION IN THE CASE OF AN ELEMENTARY CONTACT
Gabriel GĂȘPĂRESC	VIRTUAL INSTRUMENT FOR GENERATION OF DISTURBANCES WHICH AFFECT POWER QUALITY
Ioan POPA, Ioan CAUȚIL, Dan FLORICĂU, Florin OCOLEANU	MODELING AND OPTIMIZATION OF HIGH CURRENTS DISMOUNTABLE CONTACTS
Ionela ILAS, Petru LEONTE, Adrian PLEȘCA	THEORETICAL CONTRIBUTIONS ABOUT THE EVALUATION OF ACTIVE FORCES AT ELECTROMAGNETIC DEVICES WITH AXIAL FORCES
Petre TUSALIU, Dan-Costin TUSALIU, Aydogan OZDEMIR, Virginia TUSALIU	POWER SYSTEMS TRANSIENTS AT THE 380 KV UNLOADED LINE SWITCHING
Maria BROJBOIU, Virginia IVANOV	COMPLETE SOLUTIONS FOR FAULT CONDITIONS ANALYSIS WITHIN THE HIGH VOLTAGE GRID OF THE S.T. CRAIOVA
Boris DRAGANOV, Gleb DRĂGAN	METHOD OF BOUNDARY INTEGRAL EQUATIONS IN THE INVESTIGATION OF TRANSIENT HEAT SPREAD IN A CONDUCTOR

AUTOMATIONS

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 325

Chairmen: Bartolomeu IZVOREANU, Gheorghe MANOLEA

Alexandru Nicolae TUDOSIE	FUEL FLOW RATE CONTROLLER WITH RESPECT TO THE COMPRESSOR'S PRESSURE RATIO
Alexandru Nicolae TUDOSIE	TURBO-JET ENGINE'S ROTATION SPEED CONTROL SYSTEM WITH FUEL FLOW RATE INJECTION CONTROLLER

Liliana INDRIE, Sabina GHERGHEL, Ioan ALMĂȘAN	SIMULATING THE OPERATION OF THE FLAX AND HEMP RETTING AND DRYING EQUIPMENT USING THE SIMULINK/MATLAB SOFTWARE
Romulus LUNGU, Mihai LUNGU	ON – LINE PARAMETRIC IDENTIFICATION AND DISCRETE OPTIMAL COMMAND OF FLYGHT OBJECTS
Romulus LUNGU, Mihai LUNGU	OPTIMAL CONTROL OF THE ROCKET’S LATERAL DEVIATION IN RAPPORT WITH EQUAL SIGNAL LINE
Mihaela CLEJU	CONSIDERATIONS ON THE STABILITY OF NONLINEAR SYSTEMS. PART. I: INCREMENTAL INPUT DESCRIBING FUNCTIONS
Mihaela CLEJU	CONSIDERATIONS ON THE STABILITY OF NONLINEAR SYSTEMS. PART II: JUMP RESONANCE PHENOMENA
Marcel Nicola	ON THE STABILITY OF SYSTEMS WITH SATURATION AND MULTIPLE DELAY IN COMMAND AND MULTIPLE DELAY IN STATE
Marcel Nicola	ON THE STABILITY OF SYSTEMS WITH SATURATION AND DISTRIBUTED DELAY IN COMMAND AND DISTRIBUTED DELAY IN STATE
Mihaela Doina ZAMFIR	SDRE TECHNIQUE, METODOLOGY FOR DIRECT SYNTHESIS OF NONLINEAR FEEDBACK CONTROLLERS FOR D.C. SERIES MOTOR
Florin RAVIGAN, Laurențiu ALBOTEANU, Cătălin NEDELCUȚ, Gheorghe MANOLEA	GRAPHIC INTERFACES FOR AUTOMATION OF HORTICULTURAL PRODUCTS CULTURE AREAS
Mircea Adrian DRIGHICIU	APPLICATION DU FORMALISME RESEAUX DE PETRI POUR LA MODELISATION DE SYSTEMES HYBRIDES

Bartolomeu IZVOREANU, Irina COJUHARI	A TUNING ALGORITHM OF DIGITAL CONTROLLERS TO THE OBJECTS' MODELS WITH INERTIA AND TIME DELAY
Constantin OPREA, Alexandru SEREGHI, Cistian BARZ, Olivian CHIVER	CONTRIBUTION THROUGH LABVIEW SIMULAION TO A DOMOTIC HOUSE AUTOMATION

Friday, 5th October 2007

08³⁰ -10⁰⁰

Room 325

Chairmen: Victoria BOGHANASTJUK, Marian POBORONIUC

Victoria BOGHANASTJUK, Nikolae KOBILIATZKY, Calin MARIN, Eugen CATLABUGA, Irina COJUHARI	A GENERAL APPROACH TO THE DECOMPOSITION OF DYNAMIC PROGRAMMING BY PROGRAMMING FOR NONLINEAR CONTROL SYSTEMS
Boteanu NICULAE, Gavrilă MARIN, Ravigan FLORIN	MODELISATION DE L'ASSERVISSEMENT DE POSITION POUR L'INSTALLATION DE LEVAGE
Lucian MASTACAN, Iosif OLAH and Cătălin Constantin DOSOFTEI	DISTRICT HEATING SUBSTATIONS WATER TEMPERATURE CONTROL BASED ON SOFT COMPUTING TECHNOLOGY
Gheorghe MANOLEA, Alexandru NOVAC	CONTROL OF THE DISTRIBUTING ELEMENTS PROVIDED ELECTRIC HEATING SYSTEM
Iosif OLAH1, N.St. HULEA, L. MASTACAN1 and O.C. VORNICU	PLANT EXPERIMENTAL IDENTIFICATION USING VIRTUAL INSTRUMENTATION
Danut IRIMIA, Ciprian STEFAN, Marian POBORONIUC, Mihai LUIUZ, Claudiu ROMAN	MOBILE ROBOT CONTROL IN OBSTACLES AVOIDANCE TASKS BY MEANS OF A MOTOROLA-BASED HARDWARE PLATFORM

ELECTROMAGNETIC FIELD AND ELECTRICAL CIRCUITS

Thursday, 4th October 2007

15³⁰ -19⁰⁰

Room 229

Chairmen: Mihai IORDACHE, Dan MICU

Arhip POTÂNG, Mihail CHIORSAC, Ghenadie TERTEA	ANALYSE DES CIRCUITS ÉLECTRIQUES NON- LINÉAIRES EN RÉGIME TRANSITOIRE PAR LA MÉTHODE DES INTERVALLES CONSECUTIFS À CORRECTION
Gheorghe GAVRILĂ, Florin ENACHE, Emil CAZACU	STEADY STATE MAGNETIC FIELD COMPUTATION USING THE SYMBOLIC METHODS
Gheorghe GAVRILĂ, Florin ENACHE, Emil CAZACU	STUDY OF THE UNIFORM MAGNETIC FIELD DOMAINS (3D) IN THE CASE OF THE HELMHOLTZ COILS
Lucia DUMITRIU, Mihai IORDACHE	A NEW STEADY-STATE ANALYSIS METHOD FOR NONLINEAR CIRCUITS DRIVEN BY MULTI-TONE SIGNALS
Adina RACASAN, Calin MUNTEANU, Vasile TOPA, Claudia RACASAN, Oana ANTONESCU	TECHNOLOGIES TO IMPROVE HIGH FREQUENCY CHARACTERISTICS OF INTEGRATED EMI FILTERS
Dan MICU, Dan D. MICU, Andrei CECLAN and Emil SIMION	NUMERICAL METHOD FOR A MERIDIAN PLANE OF SYMMETRY OF AN ELECTROSTATIC MODEL
Ionuț P. NICA, Valeriu Gh. DAVID, Ștefan URSACHE	USAGE OF NUMERICAL METHODS FOR ELECTROMAGNETIC SHIELDS OPTIMIZATION
Daniela MINESCU, Mihaela-Brindusa NEGRU	CONTRIBUTION REGARDING THE DRIVING CURRENTS DISTRIBUTION IN SOLID MEDIUMS USING FERROFLUID DISPLAY DEVICE

Mihaela NOVAC, Ovidiu NOVAC, Radu SEBESAN	ASPECTS REGARDING THE NUMERICAL SIMULATION OF INDUCTION HEATING PROCESS IN PIECES OF CYLINDRICAL SHAPES
Bacancios IOANA, Munteanu CALIN	NUMERICAL SIMULATIONS OF AN ELECTROMAGNETIC PERTURBATION ON A CABLE TRAY
Cristina HURJUI, Cristina Elena TURCU, Adrian GRAUR	A SYSTEM OF MONITORING THE PRODUCTS FROM A REFRIGERATING WAREHOUSE USING RFID TECHNOLOGIES
Neculai TATARU	PARTICULARITIES OF THE MAGNETIC COMPASS ADJUSTMENT ON THE SCHOOL SHIP "MIRCEA
Hugo ROSMAN	RESONANCES AT THE ACCESS GATES OF A LINEAR AND NON-AUTONOMOUS TWO- PORT, SUPPLYING, IN HARMONIC STEADY- STATE, A NON-LINEAR, INERTIAL AND PASSIVE RECEIVER

ENGINEERING EDUCATION
Thursday, 4th October 2007 15³⁰ -16¹⁵
Room 222
Chairman: Mircea Ilie MIHAIU

Mircea Ilie MIHAIU, Gheorghe MARIAN	JAVA APPLETS USED TO TEACH ELECTRONICS IN INTERACTIVE MODE
Horia F. POP, Liana G.T. POP	EDUCATION FOR ENGINEERING STUDENTS: THE CASE OF LOGIC
Maria Ileana CARCEA, Costică NIȚUCĂ	TRAINING OF PRACTICAL TEACHING CAPACITIES

POWER ELECTRONICS

Thursday, 4th October 2007

16¹⁵ -19⁰⁰

Room 222

Chairmen: Alexandru BITOLEANU, Dan FLORICĂU

Catalin Petrea ION, Corneliu MARINESCU	IG CONTROLLED BY A PWM-VSI SUPPLYING STATIC AND DYNAMIC LOADS
Jenica Ileana CORCĂU, Pompiliu CONSTANTINACHE	AN ADAPTIVE CURRENT MODE FUZZY LOGIC CONTROLLER FOR DC-TO-DC CONVERTERS
Gabriel Nicolae POPA, Iosif POPA, Sorin Ioan DEACONU	COATED ELECTRODE MANUAL-METAL ARC WELDING WITH HIGH FREQUENCY WELDING INVERTER POWER SOURCES
Ecaterina-Liliana MIRON, C.G. CONSTANTINESCU, Marian PEARSICA, Constantin STRIMBU, Mihai MIRON	A METHOD TO CALCULATE POWER TRANSFER IN DIRECT AC-AC CONVERTER WITH SCR AND RESISTIVE-INDUCTIVE LOAD
Dan FLORICAU, Guillaume GATEAU, Elena FLORICAU,Ioan POPA, Dan OLARU, Sergiu IVANOV	LOSSES DISTRIBUTION IN THREE-LEVEL VOLTAGE SOURCE INVERTERS
Ladislau AUGUSTINOV, Florin BERINDE, Ion PIROI	ELECTRONIC CONTACTOR WITH TIRISTORS FOR AN OPTIMAL CONNECTION OF A THREE PHASE TRANSFORMER TO STAR NET THE SECOND BEING OPEN
Mircea Ilie MIHAIU, Carlos Alberto VALDERRAMA	THE PERFORMANCE ANALYSIS OF THE SYNCHRONOUS RECTIFIERS
Mihaela POPESCU, A. BITOLEANU, M. DOBRICEANU, M. LINCA	SIMULATION TOOL FOR POWER QUALITY ANALYSIS

Nazih MOUBAYED

**DETECTION ET LOCALISATION DES
DEFAUTS DANS LES CONVERTISSEURS
STATIQUES**

ENERGY AND ENVIRONMENT

Friday, 5th October 2007

08³⁰ -11⁰⁰

Room 222

Chairmen: Aneta HAZI, Petru TODOS

**Aneta HAZI,
Gheorghe HAZI**

**BIOMASS UTILIZATION FOR FUEL SAVING
AND MINIMIZE ENVIRONMENT IMPACT IN A
PAPER MILL**

**Dan-Teodor
BĂLĂNESCU, Vlad
Mario HOMUTESCU,
Marius Vasile
ATANASIU**

**COMPACT CONDENSING SYSTEM WITH
HEAT EXCHANGE SURFACE AND WATER
INJECTION FOR SMALL SCALE COMBINED
CYCLE MOBILE UNITS**

**Luminița BAROTE,
Ioan SERBAN**

**PERFORMANCE COMPARISON OF A LAB –
VRB – PEMFC FOR A WIND STAND ALONE
SYSTEM**

**Andrei CHICIUC,
Petru TODOS and
Oxana SAMOTEEVA**

**MASTER DEGREE PROGRAM
„ENVIRONMENT AND CLEAN
TECHNOLOGIES”**

**M.D.CAZACU, S.
NICOLAIE, S. A.
MITREA, I.
GOLOVEI**

**DESIGN AND MANUFACTURE OF SOME
BLADES FOR AEOLIAN**

**Georgeta ALECU,
Andreea COSAC**

**ENVIRONMENT QUALITY MONITORING,
ESSENTIAL REQUIREMENT IN THE
ENVIRONMENT MANAGEMENT**

**Gabriela Dana
PETROPOL-ȘERB,
Ion PETROPOL-
ȘERB**

**MODELING THE SEDIMENTATION PROCESS
IN A WASTEWATER TREATMENT SYSTEM**

**Mihai LUPU,
Alexandru
MATRONITKII**

**ACOUSTIC EXHAUST FILTRATION SYSTEM
USED IN COMBINED HEAT POWER PLANTS
FOR THE SCHEMES OF WET DUST
COLLECTION**

Mihaela Florentina MATEI, Petruta MIHAI, Claudia POPESCU, Mihai Octavian POPESCU	EFFICIENCY ANALYSIS OF A REAL SYSTEM, FOR ENERGY PRODUCTION FROM RENEWABLE SOURCES
Georges GERGES, Ali El-ALI, Nazih MOUBAYED, Rachid OUTBIB	L'ENERGIE EOLIENNE AU LIBAN : BILAN ANNUEL, RENDEMENT ET RENTABILITE

RELIABILITY AND DIAGNOSIS

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 327

Chairmen: Fiodor ERCHAN, Ciprian NEMEŞ

Cristina HORA, Mircea VEREŞ	CONTRIBUTIONS REGARDING THE PREDICTIVE RELIABILITY ANALYSIS OF THE HYDRO MECHANICAL EQUIPMENTS FROM HYDRO POWER PLANTS
Roxana GRIGORE	SOME CONSIDERATIONS ABOUT APPLICATION OF MODERN DIAGNOSIS TO COGENERATION PLANTS
Mihai TÎRŞU	THE WAVE PROPAGATION ANALYSIS PRODUCED BY PARTIAL DISCHARGES IN HIGH VOLTAGE CABLE IN DIRECT AND RETURN TIME
Delphine THAILLY, Raphaël ROMARY, Remus PUSCA, Jean-François BRUDNY	CORRELATION BETWEEN RADIAL VIBRATIONS AND EXTERNAL RADIAL MAGNETIC FIELD IN INDUCTION MACHINES. APPLICATION TO ELECTRICAL FAULT DIAGNOSIS
Mircea – Emilian ARDELEANU	FAULT LOCALIZATION IN CABLES AND ACCESSORIES BY OFF-LINE METHODS
Mihaela RĂDUCA , Eugen RĂDUCA , Iancu TĂTUCU	MODEL FOR LIFETIME ESTIMATION AT HYDRO GENERATOR STATOR WINDING INSULATION

Laura RAB Adrian MUNTEANU	ESTIMATION OF THE DEGRADATION POWER TRANSFORMERS INSULATION USING THE CHARGE CURVES
F. ERCHAN, Iu. VÎLCOV	THE PROBLEM OF THE RELIABILITY OF THE ELECTRIC POWER EQUIPMENT
Iriisa LUPVŞOR	PRINCIPIILE DE ELABORARE AL ALGORITMELOR DE OPTIMIZARE AL FIABILITĂȚII SISTEMELOR DE DISTRIBUȚIE ȘI ALIMENTARE CU ENERGIE ELECTRICĂ AL CONSUMATORILOR.
V. POPESCU	ANALIZA PROCESELOR TRANZITORII ÎN SISTEMELE DE DISTRIBUȚIE ȘI INFLUENȚA LOR ASUPRA FIABILITĂȚII.
Ciprian NEMEȘ	THE DYNAMIC RELATIONS INSIDE THE STRESS-STRENGTH VECTOR A MODELS FOR THE RELIABILITY PREDICTION
Ciprian NEMEȘ, Florin MUNTEANU, Dumitru IVAS	AGING EQUIPMENT PREDICTION USING THE WEAR PROCESS

MATERIALS & TECHNOLOGIES APPLIED IN ELECTRICAL ENGINEERING

Friday, 5th October 2007 08³⁰ -11⁰⁰

Room 327

Chairmen: Constantin SĂRMAȘANU, Florian ȘTEFĂNESCU

Florian ȘTEFĂNESCU	MODELISATION DU FONCTIONEMENT D'UN LIMITEUR DE COURANT DE DEFAUT SUPRACONDUCTEUR INDUCTIF
Tudor GROSU, Tudor SAJIN	ELECTROMECHANICAL MOVING OF CONDUCTING LIQUIDS WITH THERMAL INHOMOGENEITIES IN AN ELECTRIC FIELD
Marius-Andrei NICOLAESCU, Aurel CAMPEANU	REVIEW ON WORLDWIDE DEVELOPMENTS IN THE DOMAIN OF MICROMOTORS TECHNOLOGIES

Petre OGRUTAN, Lia – Elena ACIU, Dan BIDIAN	A MODEL FOR SHIELDING EFFECTIVENESS EVALUATION
Constantin SARMASANU, Valeriu DAVID	ON THE ELECTROMAGNETIC WAVE PROPAGATION IN A BI-ISOTROPIC CHIRAL MEDIUM
Sonia DEGERATU, Nicu George BIZDOACA, Gabriela TONT, Vasile DEGERATU	CONSIDERATIONS SUR LE DIMENSIONNEMENT DES PLAQUES COMPOSITES STRATIFIEES A MATRICE POLYMERE
Camelia PETRESCU	COMPARATIVE ANALYSIS OF THE EFFICIENCY OF PLANAR DIELECTRIC- CONDUCTOR OPEN WAVEGUIDES

METROLOGY AND MEASUREMENT SYSTEMS

Friday, 5th October 2007

08³⁰ -11⁰⁰

Room 229

Chairmen: Costin CEPIȘCĂ, Vitalie NASTAS

Elvira BUZAC, Costin CEPISCA	THE INFLUENCE OF THE ENVIRONMENTAL TEMPERATURE CONCERNING THE MEASUREMENT UNCERTAINTY AT DIGITAL MULTIMETRES CALIBRATION
Marcel STANCIU, Daniela FAUR, Anatolie BOEV, Adina STANCIU	ECG MEASUREMENT AND ACQUISITION SYSTEM FOR HEART RATE VARIABILITY ANALYSIS
Livia DRAGOMIR, Dorina DRAGOMIR	DC VOLTAGE INTERNATIONAL COMPARISON
Vitalie NASTAS	METROLOGICAL CARTESIAN COORDINATES IMPEDANCE SIMULATORS
Ion SANDU, Brândușa PANTELIMON	VERIFICATION OF THE PRESSURE TRANSDUCERS
Alexandru NOVAC, Florin RAVIGAN, Laurentiu ALBOTEANU, Catalin NEDELCUT	HUMIDITY MEASUREMENT IN THE SATURATED STEAM STERILIZATION SPACES

Marius Constantin POPESCU, Anca PETRISOR	SIMULATION OF A TEMPERATURE CONTROL SYSTEM WITH DISBRIBUTED PARAMETERS
Vitalie NASTAS	MEASUREMENT OF OVERGLAZE MICROWIRE RESISTANCE IN THE MANUFACTURING PROCESS
Olga PLOPA, Cristian FOSALAU	CONSIDERATIONS ON DIGITAL IMPEDANCE MEASUREMENTS

11⁰⁰ -11³⁰ Coffee Break

11³⁰ -14⁰⁰

Room 229

Chairmen: Mircea DOBRICEANU, Laura RAB

Ovidiu SPATARI	STUDY OF HUMAN JOINT ANGLE USING CENTRE OF MASS “WAVELET” ANALYSIS
Florin BERINDE, Ladislau AUGUSTINOV, Ion PIROI	THE COMMAND BLOCK, AQUISITION SYSTEM AND SPECIALIZED SOFT USED AT THE CONNECTION OF THE IDLE THREE PHASE TRANSFORMER TO THE NET AT THE OPTIMAL TIME
Ladislau AUGUSTINOV, Aurel CÂMPEANU, Teodor GAVRIŞ	DATA ACQUISITION SYSTEM USED FOR THE CONTROL OF THE SYNCHRONOUS MACHINE VALUES IN INSERTION TRANSITORY PROCESS
Neculai TATARU, Arlette ANGHEL	DETERMINATION OF WAVE ELEMENTS BY USING LASER-BASED DISTANCE MEASUREMENTS
Laura RAB, Adrian MUNTEANU	THE STUDY OF A LOW-POWER CONSUMPTION POTENTIOSTAT
Mircea DOBRICEANU, Eugen SUBȚIRELU, Mihăiță LINCĂ, Gabriel VLĂDUȚ	PROTECTION AND CONTROL SYSTEM USED IN ENERGY DISTRIBUTION SYSTEMS

Gianina CREȚU	APPROACH OF THE IMPLEMENTATION OF PRESSURE SENSORS IN UP-TO-DATE MEASURING SYSTEM USING IEEE 1451 STANDARD
Gianina CREȚU	DIGITAL SENSORS AND TRANSDUCERS.OVERVIEW ON PRESENT TRENDS IN DEVELOPMENT OF THESE

ELECTRICAL MACHINES

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 324

Chairmen: P. V. NOTINGHER, Ion VONCILĂ

Gabriela CRĂCIUNĂȘ	TWO-PHASE INDUCTION MOTOR WITH VECTORIAL ADJUSTING CONTROL SYSTEM USING ADAPTIVE METHODS FOR ROTOR FLUX ESTIMATION
Gabriela CRĂCIUNĂȘ	SIMULINK IMPLEMENTATION OF TWO-PHASE INDUCTION MOTOR MODEL
Voncila ION, Badea NICOLAE, Dumitrescu MARIANA, Munteanu TOADER	INFLUENCE OF STRUCTURAL NON-HOMOGENEITIES ON FIELD DISTRIBUTION AND SPECIFIC FORCES OF ELECTROMAGNETIC SYSTEMS
Dan-Cristian POPA, Vasile IANCU, Ioan-Adrian VIOREL, Loránd SZABÓ	ON THE DESIGN OF THE MODULAR LINEAR TRANSVERSE FLUX RELUCTANCE MOTORS
P. V. NOTINGHER, L.M. DUMITRAN, C. STANCU, G. TANASESCU, S. BUSOI, M. IACOB, E. BALESCU	ASSESSMENT OF THE STATE OF INSULATION SYSTEMS FOR LARGE ELECTRICAL MACHINES
Dumitru DRĂGAN	GENERATING SETS USING LIKE DRIVING MOTOR A PNEUMATIC MOTOR WHILE AS POWER SUPPLY A SELF-EXCITED THREE PHASE SYNCHRONOUS GENERATOR

Elena-Daniela OLARIU, Dorel CERNOMAZU	SOLUTIONS CONCERNING THE INCREASE OF ROLLER-TYPE SIDING CONTACT'S RELIABLENESS TO VARIABLE TRANSFORMERS AND AUTOTRANSFORMERS
Cristina PRODAN, Dorel CERNOMAZU, Niculina POIENAR	THE PARTICULARITY STUDY ABOUT "Y- CONNECTION WITH UNEQUAL BRACKET"
Niculina POIENAR, Nicu-Cătălin CREȚU, Elena OLARIU, Mihaela JEDER, Brândușa Mihaela NEGRU	STUDY AND THE CONTRIBUTION CONCERNING THE REALIZATION OF SEQUENCE INDICATORS OF PHASES
Dorel CERNOMAZU, Leon MANDICI, Cătălin- Nicu CREȚU	THE STUDY AND CONTRIBUTION CONCERNING THE MULTIPLE WINDING TRANSFORMER
Tudor AMBROS, Leonid IAZLOVEȚCHI, Maria IAZLOVEȚCHI	DETERMINATION OF THE DISPERSION CONDUCTIVITY OF CONSTANT MAGNETS IN MAGNETIC SYSTEMS OF ELECTRICAL MACHINES
Tudor AMBROS, Mihai KIORSK, Diana OPREA	VOLTAGE REGULATION OF THE ASYNCHRONOUS GENERATOR IN AN INDEPENDENT MODE OF OPERATION
Sorin ENACHE, Ion VLAD	TEST BENCH FOR RELUCTANCE SYNCHRONOUS MOTORS
Monica-Adela ENACHE, Corneliu NICA, Sergiu IVANOV	ASPECTS REGARDING MODELLING OF RELUCTANCE SYNCHRONOUS MOTORS

Friday, 5th October 2007

08³⁰ -11⁰⁰

Room 324

Chairmen: Corneliu NICĂ, Iurie RAȚĂ

Ion VLAD, Sorin ENACHE	STUDY OF THE MAGNETIC FIELD OF THE D.C. MACHINE USING NUMERICAL METHODS
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Olivian CHIVER, Constantin OPREA, Mircea HORGOS, Liviu NEAMT, Cristian BARZ	THE COMPUTATION OF REACTION AND HOMOPOLAR INDUCTANCES OF A SYNCHRONOUS MACHINE, WITH 2D NUMERICAL ANALYSIS SOFTWARE
Liliana VICOL, Ioan-Adrian VIOREL, Vasile IANCU	IDENTIFICATION OF THE SYNCHRONOUS GENERATOR PARAMETERS BY STANDSTILL TESTS
Adrian ALEXANDRESCU, Lorin CANTEMIR, Gabriel CHIRIAC	SOME ASPECTS REGARDING THE ELECTRICAL MICROMOTORS
Marius BABESCU, Octavian PROSTEAN, Gabriela PROSTEAN, Iosif SZEIDERT, Cristian VASAR	CONSIDERATIONS ABOVE SYNCHRONOUS MACHINE STABILITY ANALYSIS BY USING PHASE PORTRAITS
Aurel CAMPEANU, Gabriela PETROPOL SERB, Ion PETROPOL-ŞERB	NON TRANSIENT PROCESS AT THE OSCILATIONS WITH LARGE AMPLITUDES
Iurie RAȚĂ, Petru TODOS, Ilie NUCĂ	A REVIEW OF THE MULTIPHASE ELECTRIC MACHINES
Ilie PRISACARIU	THERMAL CONDITIONS FOR USR30-S3 TRAVELLING WAVE ULTRASONIC MOTOR
Corneliu NICĂ, Monica Adela ENACHE	EQUIVALENT CIRCUITS OF LOW POWER SYNCHRONOUS MOTORS AT FREQUENCY COMMAND
Ion PIROI, Florin BERINDE	CONNECTION TO NET OF A THREE PHASE TRANSFORMER IN Y-CONNECTION, IDLE, USING AN ELECTRONIC CONTACTOR

11⁰⁰ -11³⁰ Coffee Break

11³⁰ -14⁰⁰

Room 324

Chairmen: G. A. CIVIDJIAN, Sergiu IVANOV

Eleonora DARIE, Emanuel DARIE	ABOUT MODELING OF INDUCTION MOTOR FAULTS
Daniel Ștefan GEORGESCU	CONSIDERATIONS ABOUT THE ACTUAL STAGE OF LINEAR ELECTRIC MOTORS WITH MOBILE COIL
Eleonora DARIE, Emanuel DARIE	RADIATED ELECTROMAGNETIC EMISSION IN AC MOTOR
G. A. CIVIDJIAN, Monica ENACHE	ROTOR PERMEANCES OF SOME TYPE OF RELUCTANCE MOTORS
Mihaela JEDER	CONTRIBUTIONS REGARDING THE OPTIMIZATION OF THE THERMOMECHANICAL ACTUATORS WITH PARAFFIN

MECATRONICS, ROBOTICS AND FLEXIBLE LINES

Friday, 5th October 2007

10⁰⁰ -11⁰⁰

Room 325

Chairmen: Dorin LUCACHE, Călin RUSU

Mircea IVANESCU, Mihaela Cecilia FLORESCU	ELECTRO-RHEOLOGICALLY BASED CONTROL SYSTEM OF A COILING FUNCTION FOR A TENTACLE ARM
Mihaela Doina ZAMFIR	MULTIPLE LOOP NONLINEAR CONTROL OF SINGLE LINK MANIPULATOR WITH FLEXIBLE JOINT
Calin RUSU, Szabo ENIKŐ	PMSM AXIS DRIVE CONTROLLER FOR THE ROBOTIC APPLICATIONS
Nicu BÎZDOACĂ, Elvira BÎZDOACĂ, Anca PETRISOR, Sonia DEGERATU, Ilie DIACONU	UNCONVENTIONAL ROBOTIC ANKLE

Cezar POPA, Radu PENTIUC , Ștefan – Gheorghe PENTIUC, Adrian GRAUR	UTILIZATION OF COLOUR MARKERS IN INTERACTION WORKER - INFORMATIC SISTEM - ROBOT
Dorin LUCACHE, Vasile HORGA, Marcel RĂȚOI, Alecsandru SIMION, Mihai ALBU	MOTORING REGIME CONTROL OF AN INTERIOR PERMANENT MAGNET SYNCHRONOUS MACHINE

THERMAL AND ELECTRICAL POWER GENERATION

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 218

Chairmen: Corneliu MARINESCU, Ion SOBOR

Serban IOAN, Corneliu MARINESCU	UNBALANCE COMPENSATION IN STAND-ALONE MICROGRIDS
Anatolii JURAVLEOV, Mikhail SIT, B. SIT, Olga POPONOVA, Alexandr ZUBATAL, Dmitrii TIMCENCO	THE USE OF HEAT PUMP SYSTEMS IN DISTRICT HEATING
Sorin Ioan DEACONU, Gabriel Nicolae POPA, Iosif POPA	INDUCTION GENERATOR WITH ROTOR WINDING AND STATIC FREQUENCY CONVERTER FOR MICRO HYDROELECTRIC POWER PLANTS OR WIND POWER STATION WITH VARIABLE SPEED
Vlad Mario HOMUTESCU, Dan-Teodor BĂLĂNESCU, Adrian HOMUTESCU	PHYSICO-MATHEMATICAL MODEL WITH FRICTION LOSSES FOR VUILLEUMIER MACHINES
Daniela POPESCU	SIMULATION OF SPACE HEAT DEMAND
Vasile DAUD, Roman NICU	POWER REGULATION PROCEDURES AND ALGORITHMS OF GAS BURNER IN THERMOENERGETIC SYSTEMS
Tkach LARISA, Musteata VALENTIN	THERMOECONOMIC METHOD FOR ANALYSIS OF SUGAR REFINERIES

Ion SOBOR	IS WIND POWER MORE EXPENSIVE?
V.MUSTEAȚA, A GUȚU	THE MEASURES OF ENERGY SECURITY CONSOLIDATION IN REPUBLIC OF MOLDOVA

AUTOMOTIVE EQUIPMENTS AND ELECTRICAL TRACTION

Friday, 5th October 2007 11³⁰ -14⁰⁰

Room 325

Chairmen: Doru Adrian NICOLA, Ilie NUCĂ

Vitalie ESANU, Iurie RAMBU, Nicolae SECRIERU	COMPUTER CONTROL SYSTEM „SDMC” FOR URBAN ELECTRICAL TRANSPORT
Vasile RUDII, Vitalie ESANU, Iurie RAMBU	ECONOMICAL AND SOCIAL EFFECTS OF „SDMC” COMPUTER CONTROL SYSTEM IMPLEMENTATION IN THE URBAN ELECTRIC TRANSPORT
Veronica BOZIANU, Francisc BOZIANU	ON THE DETERMINATION OF SHIP’S COURSE BY THE LASER GYRO-COMPASS
Daniel Cristian CISMARU, Doru Adrian NICOLA	MODELLING OF DIRECT SELF CONTROL USED IN ELECTRICAL TRACTION
Ilie NUCĂ, Ion SOBOR, Veaceslav NASTASENCO, Vitalie EȘANU, Iurie RÎMBU	ENERGETICAL ASPECTS OF TROLLEYBUS TRACTION WITH CHOPPER AND COMPOUND DIRECT CURRENT MOTOR
Gheorghe LIVINT, Gabriel CHIRIAC, Vasile HORGA	ASPECTS REGARDING THE DRIVE LINE DESIGN OF THE PARALLEL HYBRIDE ELECTRIC VEHICLES
Costică NIȚUCĂ, Ahmed RACHID, Lorin CANTEMIR, Gabriel CHIRAC, Alina GHEORGHIU	CONSTRUCTIVE AND EXPERIMENTAL ASPECTS REGARDING THE ELECTRIC POWER COLLECTING FOR VERY HIGH SPEED TRACTION

ELECTRICAL ENERGY TRANSPORT AND DISTRIBUTION

Thursday, 4th October 2007 15³⁰ -19⁰⁰

Room 126

Chairmen: Mircea GUȘĂ, Lev KALININ

Ioan-Dragoș DEACONU, Ana- Maria DUMITRESCU, Aurel-Ionuț CHIRILĂ, Mihai PRIBOIANU and Valeriu BOSTAN	TRANSITORY REGIMES ANALYSIS METHODS FOR ELECTRICAL TRANSFORMERS
Traian CHIULAN, Brândușa PANTELIMON	COMPARISON BETWEEN THE THERMAL MODELS PRESENTED IN THE EUROPEAN STANDARDS ON THE OVERLOADING POSSIBILITIES OF THE LARGE POWER TRANSFORMER UNITS
Iurie DEDIU	HETEROGENEITY OF TRANSPORT ELECTRIC NETWORKS
Gheorghe CÂRȚINĂ, Gheorghe GRIGORAȘ, Virgil ALEXANDRESCU, Elena-Crenguța BOBRIC	POWER SYSTEM ANALYSIS USING MATLAB TOOLBOXES
Otilia MARIN, Florentina MIHAILESCU	IMPROVEMENT OF TRANSMISSION AND SYSTEM OPERATOR ACTIVITY BASED ON REVENUE CAP REGULATION FOR TRANSMISSION TARIFF
Igor LUCINSCHI, Ion PĂDURARU	NORMATIVE AND TEHNICAL ASPECTS CONCERNING REACTIVE POWER TARIFF SETTING
Lev KALININ, Dmitrii ZAITSEV, Mihai TIRSU	INTERPHASE POWER CONTROLLER (IPC) USING ROTARY TRANSFORMERS

Daniel N. FÎȚĂ Loredan MURESAN Cosmin CHELEMAN Mihai GREBENISAN	THE MODELLING OF ROSIORI POWER STATION 400/220/20 kV RETECHNOLOGIZED OF TRANSELECTRICA COMPANY. THE SIMULATION OF THE PERMANENT REGIME WITH EDSA PROGRAMME
Virgil ALEXANDRESCU, Gh. CÂRȚINĂ, Gh. GRIGORAȘ	INTEGRATED SOFTWARE APPLICATION FOR THE MANAGEMENT OF DATABASES CONTAINING STATIC AND DYNAMIC MODELS OF THE AGGREGATED LOADS FROM DISTRIBUTION NETWORK AND THEIR USE IN STATIC AND DYNAMIC NETWORK ANALYSIS
Marcel ISTRATE, Mircea GUȘĂ	ASPECTS OF THE POWER GRIDS' IMPEDANCE RELAYING IN AN ATP-MODELS APPROACH
Viorel VARVARA, Gheorghe GEORGESCU	ABOUT THE EFFICIENCY OF THE REACTIVE POWER COMPENSATION IN NETWORKS THAT OPERATE IN NONSYMMETRICAL STATES

Friday, 5th October 2007

08³⁰ -11⁰⁰

Room 126

Chairmen: Mircea CHINDRIS, Ion STRATAN

Gh. GEORGESCU, Viorel VARVARA	ASPECTS REGARDING THE QUALITY OF THE ELECTRIC ENERGY IN PUBLIC DISTRIBUTION SYSTEMS
Mihai GAVRILAS, Calin Viorel SFINTES, Ovidiu IVANOV	DEMAND RESPONSE MODELING UNDER ELECTRICITY MARKET CONDITIONS USING AN OBJECT-ORIENTED APPROACH
Ovidiu IVANOV, Mihai GAVRILAS, Marcel ISTRATE	A RADIAL BASIS FUNCTION NEURAL NETWORK WITH PRUNING STRATEGY FOR DISTANCE RELAYING SYSTEMS
Mircea CHINDRIS, Andrei CZIKER, Anca MIRON	STUDY CASES REGARDING POWER LOSSES IN POWER SYSTEMS WITH POOR POWER QUALITY

Ion STRATAN, Alexei STAROSTIUC	ANALYSIS OF METHODS FOR ALLOCATING TRANSMISSION ACTIVE LOSSES IN POWER GRIDS
Andrei CECLAN, Constantin BARBULESCU, Ștefan KILYENI, Dan D. MICU, Dan MICU, Emil SIMION	POWER FLOW NON-LINEAR SYSTEM OF EQUATIONS WITH SVD REGULARIZATION NEWTON METHOD
Silvia-Maria DIGĂ, Virginia IVANOV	CONSIDÉRATIONS SUR L'ACCROISSEMENT DU DEGRÉ DE SÛRETÉ D'UNE LIGNE ÉLECTRIQUE AÉRIENNE DE MOYENNE TENSION
Ion STATAN, Ion PROȚUC, Ina DOBREA	CONTRIBUTIONS TO THE RATIONAL METHOD OF NEUTRAL EARTHING WITH MATLAB+SIMULINK
Elena BÎCOVA	CONTROLLED TRANSMISSION LINES AS INTERSYSTEM CONNECTIONS FOR MAINTENANCE OF ENERGY SECURITY OF REGION
Elena BÎCOVA, V.M. POSTOLATI	CONTROLLABLE FLEXIBLE A.C. TRANSMISSION SYSTEMS
Calin Viorel SFINTES	REDUCING ELECTRICITY COSTS BY PRODUCTION CHAIN OPTIMIZATION UNDER ELECTRICITY MARKET CONSTRAINT
F. ERCHAN, O. PETROV, I. KOLESNIK, I U. VILCOV	INFLUENCE OF LOSSES ON THE CROWN ON ACCURACY OF DEFINITION OF THE PLACE OF DAMAGE TO HIGH-VOLTAGE OVERHEAD TRANSMISSION LINES
Gheorghe HAZI, Aneta HAZI	CONDITIONS FOR EFFICIENT USE OF THE 1000 V ENERGY DISTRIBUTION

ELECTRICAL ENERGY UTILIZATIONS

Friday, 5th October 2007

08³⁰ -11⁰⁰

Room 218

Chairmen: Florin POP, Ion RUDEI

Codreanu CONSTANTIN	LES APPAREILS ELECTROMENAGERS – LES SOURCES POLLUANTES D’HARMONIQUES
Codreanu CONSTANTIN	LA VARIATION DES NIVEAUX D’HARMONIQUE DE COURANT EMETTE AU FONCTION D’ORDINATEURS PERSONAUX ET DE QUELQUES SOURCES D’ILUMINATION EN FONCTION DE TENSION DE RESEAU
Garry HOROȘANSCHIL, Ion FRUNZE Tudor STANCIU, Victor POGORA, Ion PROȚUC	STUDY OF THE EROSIIVE CHARACTERISTICS OF A TUBULAR COPPER ELECTRODE WITH APERTURE OF THE PLASMA GENERATOR FOR CUTTING METALS
Petruta MIHAI, Mihaela MATEI, Mihai O. POPESCU	THE COMPONENTS FOR THE MATHEMATICAL MODEL OFTEN USED IN FORECAST STUDY
Vasile DOBREF, Octavian TĂRĂBUȚĂ	OPTIMIZATION OF LOAD DEPENDENT IN NAVAL POWER SYSTEM
Ion RUDEI, Tudor STANCIU	ANALYSE DU NIVAU D’INFLUENCE DU FOUR A ARC ELECTRIQUE SUR LE RÉSEAU ÉLECTRIQUE
Angela IAGĂR, Cristian ABRUDEAN	NUMERICAL COMPUTATION OF THE RESISTANCE FURNACES MASONRY
Florin POP, Dorin BEU	RESIDENTIAL ENERGY EFFICIENT LIGHTING BY PROMOTING FLUORESCENT COMPACT LAMPS UNDER THE FRAME OF IEE PROGRAMME ENERLIN
Saher KOUMAYRA, Nazih MOUBAYED	ETUDE ET COMPARAISON DES METHODES DE CONTROL DANS LES SYSTEMES DE CLIMATISATION

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