

PAPERS SCHEDULE

PLENARY SESSIONS, AUTOMATION, MECHATRONICS, COMPUTER SCIENCE AND ENGINEERING, ELECTRONICS AND INSTRUMENTATION

Thursday October 18, 2007	8:30 – 9:30	T ₁ REGISTRATION OF PARTICIPANTS		
	9:30 – 9:40	T ₂ S ₁ CONFERENCE OPENING		
	9:40 – 11:10	T ₃ S ₁ PLENARY SESSION 1		
	11:10 – 11:30	Coffee break		
	11:30 – 13:00	T ₄ S ₁ AUTOMATION	T ₄ S ₂ Invited Session 1	T ₄ S ₄ CS
	13:00 – 14:30	Lunch		
	14:30 – 16:00	T ₅ S ₁ AUTOMATION	T ₅ S ₂ Invited Session 1	T ₅ S ₄ CS
	16:00 – 16:20	Coffee break		
	16:20 – 17:50	T ₆ S ₁ AUTOMATION	T ₆ S ₂ MECHATRONICS	T ₆ S ₄ CS
	17:50 – 19:00	T ₇ S ₁ WORKSHOP		
	19:00 – 22:00	Wellcome Party		
Friday October 19, 2007	8:30 – 9:40	T ₈ REGISTRATION OF PARTICIPANTS		
	9:40 – 11:10	T ₉ S ₁ PLENARY SESSION 2		
	11:10 – 11:30	Coffee break		
	11:30 – 13:00	T ₁₀ S ₁ AUTOMATION	T ₁₀ S ₂ MECHATRONICS	T ₁₀ S ₃ ELECTRONICS
	13:00 – 14:30	Lunch		
	14:30 – 16:00	T ₁₁ S ₁ AUTOMATION	T ₁₁ S ₂ MECHATRONICS	T ₁₁ S ₃ ELECTRONICS
	16:00 – 16:20	Coffee break		
	16:20 – 17:50	T ₁₂ S ₁ AUTOMATION	T ₁₂ S ₂ Invited Session 2	T ₁₂ S ₃ ELECTRONICS
	19:00 – 22:00	Conference Banquet		

Section: T₃S₁ PLENARY SESSION 1

Chairs: Mircea IVĂNESCU, Dan POPESCU

1. Stephen Banks - NONLINEAR SYSTEMS, INVARIANT MEASURES AND OSELEDEC'S THEOREM
2. Roberto Oboe, Tahar Slama, Alberto Trevisani - TELEROBOTICS THROUGH INTERNET: PROBLEMS, APPROACHES AND APPLICATIONS
3. Nikos Tsourveloudis - NAVIGATION OF AUTONOMOUS ROBOTIC VEHICLES USING FUZZY LOGIC

Section: T₄S₁ AUTOMATION

Chairs: Andrzej BARTOSZEWICZ, Marin CONSTANTIN

1. Andrzej Bartoszewicz, Justyna Zuk - TIME-VARYING SLIDING MODE FLOW CONTROL STRATEGY FOR CONNECTION-ORIENTED COMMUNICATION NETWORKS

2. Calin Rusu, Enikő Szőke - DSP BASED ADAPTIVE CONTROLLER FOR BRUSHLESS DC MOTOR USED IN ROBOTIC APPLICATIONS
3. Petr Chalupa, Vladimír Bobál - ADAPTIVE PREDICTIVE CONTROL OF INTERCONNECTED LIQUID TANKS
4. Adrian Toader, Ioan Ursu - BACKSTEPPING CONTROL SYNTHESIS FOR HYDROSTATIC TYPE FLIGHT CONTROLS ELECTROHYDRAULIC ACTUATORS
5. Constantin Marin, Virginia Fincă, Radu Zglimbea - ADAPTIVE CONTROL OF SYSTEMS WITH DYNAMIC FRICTION

Section: T₅S₁ AUTOMATION

Chairs: Vladimir RĂSVAN, Adrian-Mihail STOICA

1. Vladimir Răsvan, Dan Popescu, Daniela Danciu - NETWORKS AND SYNCHRONIZATION
2. Vasile Drăgan, Adrian-Mihail Stoica - KALMAN -TYPE ESTIMATION FOR SYSTEMS CORRUPTED WITH ADDITIVE AND MULTIPLICATIVE WHITE NOISE
3. Marian-Silviu Gîrniță - STUDY OF KALMAN FILTERING – AN EXAMPLE RELATED TO UKF
4. J. Novak, V. Bobal - MULTIPLE MODEL MODELLING AND PREDICTIVE CONTROL
5. Matei Vîătoru - DESIGN AND IMPLEMENTATION OF ADVANCED ALGHORITMS USING HOLONIC STRUCTURE CONCEPT

Section: T₆S₁ AUTOMATION

Chairs: Stephen BANKS, Dan POPESCU

1. Wei Chen, Stephen Banks - BRANCHED MANIFOLDS, KNOTTED SURFACES AND DYNAMICAL SYSTEMS
2. Yi Song, Xu Xu - FROM LOCAL TO GLOBAL CONTROL SYSTEMS
3. Xu Xu, Yi Song - ONE-DIMENSIONAL REPRESENTATIONS OF DYNAMICAL SYSTEMS AND APPLICATIONS TO CONTROL
4. Laviniu Bejenaru - OSCILLATIONS BY POINCARÉ MAPS IN HYBRID SYSTEMS
5. Laviniu Bejenaru - STABILITY CRITERION FOR HYBRID SYSTEMS WITH DELAY

Section: T₉S₁ PLENARY SESSION 2

Chairs: Mircea IVĂNESCU, Dan POPESCU

1. Andrzej Bartoszewicz - VARIABLE STRUCTURE CONTROL – FROM PRINCIPLES TO APPLICATIONS
2. Ioan Dumitrache – TOWARDS A NEW GENERATION OF CONTROL SYSTEMS
3. Hubert Roth, Jürgen Wahrburg - INTERACTIVE COMPUTER AIDED SURGERY

Section: T₁₀S₁ AUTOMATION

Chairs: Radu DOBRESCU, Octavian PĂSTRĂVANU

1. Radu Dobrescu, Virginia Ecaterina Oltean, Dan Popescu - ADAPTIVE HYBRID MODEL OF THE IMMUNE SYSTEM RESPONSE IN SEPSIS
2. Alexandru Serbănescu, Corneliu Popeea, Boris Jora - THE H₂ CONTROL PROBLEM FOR TDS – AN OPTIMAL OUTPUT FEEDBACK CONTROLLER SYNTHESIS
3. Mihaela-Hanako Matcovschi, Octavian Păstrăvanu - BOX-CONSTRAINED STABILIZATION FOR PARAMETRIC UNCERTAIN SYSTEMS
4. Sergiu Caraman, Marian Barbu, Eugen Arinton - THE LINEARIZING CONTROL OF A WASTEWATER TREATMENT PROCESS WITH THE REMOVAL OF TWO SUBSTRATES

5. Ciprian Lupu, Cătălin Petrescu, Puiu Crăciunescu, George Condur – CONTROL METHOD FOR NONLINEAR PROCESSES: DESIGN PROCEDURE FOR INVERSE MODEL COMMAND

Section: T₁₁S₁ AUTOMATION

Chairs: Mihail ABRUDEAN, Eugen IANCU

1. Livia Buzdugan, Tiberiu Coloși - THE USE OF STATE VARIABLES IN THE MODELLING AND NUMERICAL SIMULATION OF POLLUTANTS DISPERSION
2. Eva-Henrietta Dulf, Andreea Stegaru, Tudor Buzdugan, Clement Feștilă - APPLICATION OF THE COMPUTER MONITORING AND CONTROL SYSTEM TO AN ISOTOPE SEPARATION COLUMN
3. Clement Feștilă, Eva-Henrietta Dulf, Tudor Buzdugan, Mihaela-Ligia Ungureșan - HYDRO- AND THERMODYNAMIC PROCESSES IN 13C CRYOGENIC SEPARATION COLUMN
4. Ionela Iancu, Eugen Iancu - THE ANALYSE OF THE HEART SOUNDS FOR AUTOMATED DIAGNOSIS
5. David Samek, Lubomir Macku - SIMULATION OF MODEL PREDICTIVE CONTROL OF SEMI-BATCH REACTOR

Section: T₁₂S₁ AUTOMATION

Chairs: Matei VÎNĂTORU, Emil PETRE

1. Gabriela Cănuț, Camelia Maican, Matei Vînătoru, Eugen Iancu - DIGITAL LIBRARY OF BURNERS PROCESSES OF FAULTS OF THE BOILER
2. Adrian Dănilă - A DIRECT AND QUADRATURE AXIS APPROACH TO TORQUE ESTIMATION IN AN EDDY CURRENTS BRAKE
3. Ľubomír Jasenovec, Ján Jadlovský - DISTRIBUTED SYSTEM FOR AUTOMATIC EXECUTION OF EXPERIMENTS
4. Camelia Maican, Matei Vînătoru, Eugen Iancu, Gabriela Cănuț - THE CONTROL OF THE TEMPERATURE IN THE STEAM OVERHEATER
5. Monica Roman, Eugen Bobașu, Dorin Sendrescu - NONLINEAR MODELING OF A QUANSER FLEXIBLE LINK
6. Marian Popescu - AUTOMATIC CONTROL OF THE GLASS DETENSION PROCESS

Section: T₆S₂ MECHATRONICS

Chairs: Roberto OBOE, Dorian COJOCARU

1. Somrak Petchartee, Gareth Monkman - PRE-SLIP SENSING USING TACTILE SENSOR
2. Áron Ballagi, Ádám Tihamér - FUZZY ODOMETRY ERROR APPROXIMATION OF A MOBILE ROBOT
3. Sorin Dumitru, Dorian Cojocaru - VISUALIZATION APPLICATION FOR SENSOR NETWORKS
4. Somrak Petchartee, Gareth Monkman - CONTACT RECOGNITION USING TACTILE SENSOR
5. Ioan Gavriluț, Virgil Tiponuț, Alexandru Gacsádi - MOBILE ROBOTS GUIDANCE BY USING CELLULAR NEURAL NETWORKS
6. Marian-Silviu Gîrniță - IMPLEMENTATIONS OF A MULTISENSOR MULTITARGET TRACKING ALGORITHM

Section: T₁₀S₂ MECHATRONICS

Chairs: Hubert ROTH, Gheorghe LAZEA

1. Marián Bakoš - UTILIZATION OF ACTIVE CONTOUR METHODS
2. Ana Pavel, Cristian Vasile, Cătălin Buiu - COGNITIVE VISION SYSTEM FOR AN ECOLOGICAL MOBILE ROBOT

3. Ionuț Dinulescu, Alice Predescu, Dorin Popescu - SIMULATION TOOL FOR MULTIPLE IMAGES BASED REAL-TIME SEGMENTATION
4. Bogdan Vigar, Pierre Mozer, Doru Petrișor, Dan Stoianovici - IMAGE-GUIDED ROBOTIC UROLOGIC INTERVENTIONS
5. Gheorghe Lazea, Radu Robotin, Cosmin Marcu, Levente Tamas - AUTONOMOUS SYSTEM FOR MOBILE ROBOT NAVIGATION
6. Doru Pănescu, Marius Șutu, Ștefan Dumbravă - ON APPLYING MULTIAGENT SYSTEMS TO A COLLABORATIVE ASSEMBLY ROBOT SYSTEM: A COMPARISON OF TWO COORDINATION SCHEME
7. Mircea Ivănescu, Mihaela Cecilia Florescu - THE GRASPING CONTROL OF A HYPERREDUNDANT ROBOT BY USING INTELLIGENT MATERIALS

Section: T₁₁S₂ MECHATRONICS

Chairs: Nikos TSOURVELOUDIS, Mircea NIȚULESCU

1. Ajij Sayyad, Bharatendu Seth, Kurien Issac - DISCRETE-TIME SLIDING MODE CONTROL OF A ONE-LEGGED HOPPING ROBOT
2. Ionuț Resceanu, Ofelia Tindea - IMPLEMENTATION OF GENETIC ALGORITHMS IN SELF-LEARNING MOBILE ROBOTS
3. Alexandru Morar - THREE AXIS MICROSTEP CONTROL CARD FOR EDUCATIONAL X-Y-Z MULTIPLE AXIS UNITS
4. Mihaela Zăvăleanu, Eugenia Roșulescu, Suzana Dănoiu, Dan Popescu - ROBOTIC APPLICATIONS IN MEDICAL REHABILITATION
5. Eugenia Roșulescu, Mihaela Zăvăleanu, Suzana Dănoiu - VIRTUAL REALITY THERAPY AS A REHABILITATION TOOL
6. Mircea Nițulescu - SOME CONSIDERATIONS REGARDING MODELLING AND CONTROL FOR A CLASS OF MOBILE ROBOTS

Section: T₄S₂ INVITED SESSION 1

Chairs: Dorin POPESCU, Iveta ZOLOTOVA

1. Florin Daniel Anton, Theodor Borangiu, Silvia Anton, Andra Condruț - REMOTE CONTROL OF A ROBOTIZED FLEXIBLE WORKCELL USING A WEB INTERFACE
2. Dorin Popescu, Florin Manta, Adrian Morăreț, Sorin Vava, Livia Popescu - TELEMATICS APPLICATION FOR A FLEXIBLE MANUFACTURY SYSTEM
3. Nirvana Popescu, Decebal Popescu, Cornel Popescu, Gabriel Verzea - VIRTUAL COURSES & LAB PORTAL
4. Marian Poboroniuc, Marian Petrescu, Ciprian Ștefan, Gheorghe Livinț - LEARNING NEURO-PROSTHESES CONTROL BY USING REMOTELY TUTORED SIMULATION AND EXPERIMENTS

Section: T₅S₂ INVITED SESSION 1

Chairs: Deniz DERVIZ, Decebal POPESCU

1. Marián Bakoš, Iveta Zolotová - POSSIBILITIES OF COMMUNICATION IN INFORMATION AND CONTROL SYSTEMS
2. Claudiu Chiculiță, Laurențiu Frangu - A TELEOPERATION EXPERIMENT TO CONTROL THE "PLATE AND BALL"
3. Derviz Deniz, Atilla Bulancak - WCMS: WEB-BASED CONFERENCE MANAGEMENT SYSTEM
4. Emilia Saulescu - AUDIO HAPTICS FOR VISUALLY IMPAIRED TRAINING AND EDUCATION AT A DISTANCE

Section: T₇S₁ WORKSHOP: PARTNERSHIPS AND MEMBERSHIPS IN INTERNATIONAL PROJECTS

Chair: Gabriel VLĂDUȚ

Section: T₄S₄ COMPUTER SCIENCE AND ENGINEERING

Chairs: Marius BREZOVAN, Cristea BOBOILA

1. Emilia Saulescu - E-PORTOFOLIO PROCESS IN VOCATIONAL EDUCATION
2. Gabriel Saulescu - DIGITAL AIDED GUIDE FOR FATHERS-TO-BE
3. Eugen Ganea, Marius Brezovan, Simona Ganea - SEISMIC IMAGE PROCESSING FOR FACIES DETECTION USING TEXTURAL ATTRIBUTES AND NEURAL NETS
4. Cristea Boboila - SOME ASPECTS ABOUT INFORMATION ACCESS IN DATABASES
5. Sorina Cornoiu - SOLVING THE HETEROGENEITY PROBLEM IN E-GOVERNMENT USING N-GRAMS

Section: T₅S₄ COMPUTER SCIENCE AND ENGINEERING

Chairs: Stefan UDRISTOIU, Cristina FIERBINTEANU

1. Daniela Alexandra Crisan, Catalina Popescu-Mina, Dumitru Popescu, Justina Lavinia Stanica – USING FRACTAL TECHNIQUES IN BIOMEDICIN
2. Cristina Fierbinteanu, Mihai Buneci - FIRST STEPS TOWARDS A CONCEPTUAL MODEL FOR AVIRTUAL UNIVERSITY
3. Cristina Fierbinteanu, Serban Petrescu, Catalin Tudose, Tudor Metea, Mihai Buneci -THEORETICAL FOUNDATIONS FOR GIS
4. Andrei Ingeaua, Dumitru Ingeaua, Stefan Udristoiu - REAL TIME OBJECT TRACKING
5. Cristian Marasescu, Florin Varga, Andrei Bondoc - DIGITAL MULTICHANNEL REGULATOR

Section: T₆S₄ COMPUTER SCIENCE AND ENGINEERING

Chairs: Gheorghe MARIAN, Augustin IONESCU

1. Eugen Dumitrașcu, Nicolae-Iulian Enescu, Gheorghe Marian - IVV TESTING MODEL FOR MOBILE APPLICATIONS
2. Marius Marian - DEPLOYING THE ONLINE CERTIFICATE STATUS PROTOCOL WITHIN HIGH-VOLUME PKI ENVIRONMENTS
3. Adrian Neatu, Dan Tusaliu, Robert Popescu, Ecaterina Manole - USAGE OF DIGITAL PEN BASED DEVICES IN E-LEARNING
4. Dan Tusaliu, Adrian Neatu, Cosmin Selaru, Ecaterina Manole - NOWADAYS MOBILE SOFTWARE. AN EXAMPLE

Section: T₁₀S₄ COMPUTER SCIENCE AND ENGINEERING

Chairs: Marin LUNGU, Dan MANCAS

1. Marin Lungu - SCALABLE CLIENT/SERVER SOLUTION USING WINDOWS OVERLAPPED I/O COMPLETION PORTS
2. Delia Mitrea, Sergiu Nedevschi, Paulina Mitrea, Monica Lupsor, Radu Badea - TEXTURE BASED APPROACH FOR BUILDING THE IMAGISTIC MODEL OF HEPATOCELLULAR CARCINOMA
3. Adrian Runceanu - TOWARDS VERTICAL FRAGMENTATION IN DISTRIBUTED DATABASES
4. Laviniu Aurelian Badulescu - ATTRIBUTE SELECTION MEASURE IN DECISION TREE GROWING
5. Laviniu Aurelian Badulescu - CLASSIFICATION ERROR RATES IN DECISION TREE EXECUTION

Section: T₁₁S₄ COMPUTER SCIENCE AND ENGINEERING

Chairs: Dorian COJOCARU, Honoriu VALEAN

1. Honoriu Valean, Adina Pop, Camelia Avram - INTELLIGENT MODEL FOR VIRUS SPREADING
2. Marius Stoian, Gheorghe Stefan - THE EFFICIENCY OF THE REGISTER FILE BASED ARCHITECTURES IN THE OOP LANGUAGES ERA
3. Andreea Soimu, Anca Loredana Ion, Dorian Cojocaru - IMAGE RETRIEVAL EXPERIMENTS BASED ON SHAPE
4. Octavian Stefan - ADAPTIVE FIREWALLING IN AN UNIX ENVIRONMENT

Section: T₁₀S₃ ELECTRONICS AND INSTRUMENTATION

Chairs: Mircea BODEA, Vintila FILIPESCU

1. Cosmin Popa, Anca Manolescu, Anton Manolescu - INTEGRATED NANOSTRUCTURE WITH IMPROVED TEMPERATURE DEPENDENCE
2. Andrei Danchiv, Mircea Bodea, Claudius Dan - A FULLY DIFFERENTIAL SWITCHED CAPACITOR AMPLIFIER
3. Gabriel Gasparesc, Ciprian Dughir - VIRTUAL SIGNAL GENERATOR FOR BIOMEDICAL SIGNALS WITH GUI
4. Cornelia Gordan, Romulus Reiz - GENOME ANALYSIS USING TIME-FREQUENCY REPRESENTATIONS
5. Adrian Tulbure, Mircea Risteriu - TECHNICAL SIMULATION AND MEASUREMENTS OF CAGE SWITCHING AT THE INDUCTION MACHINE
6. Vintila Filipescu, Elena Doicaru - A TOOL FOR TESTING SRAM MEMORIES

Section: T₁₁S₃ ELECTRONICS AND INSTRUMENTATION

Chairs: Dan ISTRATE, Elena DOICARU

1. Michel Vacher, Dan Istrate, Jean François Serignat - SPEECH AND SOUND ANALYSIS: AN APPLICATION OF PROBABILISTIC MODELS
2. Beniamin Dragoi, Ioan Jivet - PROGRAMMABLE ELECTRODE SUPPORT MODULE (ESM) WITH CURRENT CONVEYOR OUTPUT FOR MULTIFREQUENCY EIT
3. Elena Doicaru, Mircea Bodea - A CMOS CONTINUOUS-TIME CURRENT MODE FILTER TECHNIQUE FOR LOW SUPPLY VOLTAGE APPLICATIONS
4. Elena Doicaru, Vintila Filipescu - A FULLY DIFFERENTIAL CMOS TRANSDUCTOR FOR HIGH FREQUENCES CONTINUOUS-TIME ACTIVE FILTER
5. Enrique Doheijo, Maria Garcia Estevez Deloitte, Gabriel Vladut, Virginia Matei, Camelia Cojocaru, Laura Nunez, José Ramón López - INNOVATION – FINANCIAL NETWORK (EIFN) AND TRANSNATIONAL TECHNOLOGY TRANSFER IN RENEWABLE ENERGY SECTOR
6. Gabriel Vladut, Ion Purcaru, Petre-Marian Nicolae, Camelia Cojocaru - SYSTEM AND EQUIPMENT FOR MEASUREMENT, REGISTRATION OF PARAMETERS AND ANALYSE OF THE QUALITY OF THE ELECTRIC ENERGY
7. Gabriel Vladut, Marius Fetoiu, Mircea Dobriceanu - MONITORING AND CONTROL SYSTEM FOR ELECTRICAL GRID STATIONS

Section: T₁₂S₃ ELECTRONICS AND INSTRUMENTATION

Chairs: Mircea MIHAIU, Petre-Marian NICOLAE

1. Oleg Cernian - SIMULATIONS OF DIFFERENT HOMOGENOUS T GATE TRISTABLES
2. Oleg Cernian - TERNARY REVERSIBLE REGISTERS AND THEIR UTILISATION

3. Ilie-Mircea Mihaiu, Carlos Alberto Valderrama - NEW POWER MODULE AND IC FOR SYNCHRONOUS RECTIFIERS WITH CAPACITIVE FILTERS
4. Ileana-Diana Nicolae, Petre Marian Nicolae, Dan Gabriel Stanescu, Ioana Gabriela Sirbu - DESIGNING, REALIZATION AND TESTING OF A CURRENT CONDITIONING BOARD USED FOR PEBB CONVERTER CONTROL
5. Petre Marian Nicolae, Ileana-Diana Nicolae, Bogdan Lepadat - 2 X-BIT QCA ADDER
6. Traian-Titi Șerban - ABOUT A NEW THEORY IN POWER MEASUREMENT (Part 1 – Concepts)
7. Marius Constantin Popescu, Anca Petrisor - IMPLEMENTATION OF A MOVING SYSTEM IN A LABYRINTH

Section: T₁₂S₂ INVITED SESSION 2: INNOVATIVE DESIGN AND CONTROL SOLUTIONS IN ACTIVE DISTRIBUTION NETWORKS WITH AN INTERMEDIATE LEVEL OF D.C. VOLTAGE

Chairs: Mihaela ALBU, Eugen BOBAȘU

Section: T₁₂S₄ ROUND TABLE: New Pneumatic And Electric Components For Industrial Robots

Chairs: Valeriu BANU, Dorin POPESCU