



**2010** *8th International Conference on*  
**COMMUNICATIONS**

**June 10 – 12, 2010**  
**BUCHAREST, ROMANIA**

**PROGRAM**

**Organized by:**  
**“Politehnica” University of Bucharest**  
**Military Technical Academy**  
*under the aegis of*  
**IEEE Romanian Section**  
**Romanian Academy of Technical Sciences**

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**Ioan NICOLAESCU**

*Military Technical Academy, Romania*

**Victor CROITORU**

*“Politehnica” University of Bucharest*

**Alexandru ȘERBĂNESCU**

*Military Technical Academy, Romania*

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Petrică CIOTÎRNAE

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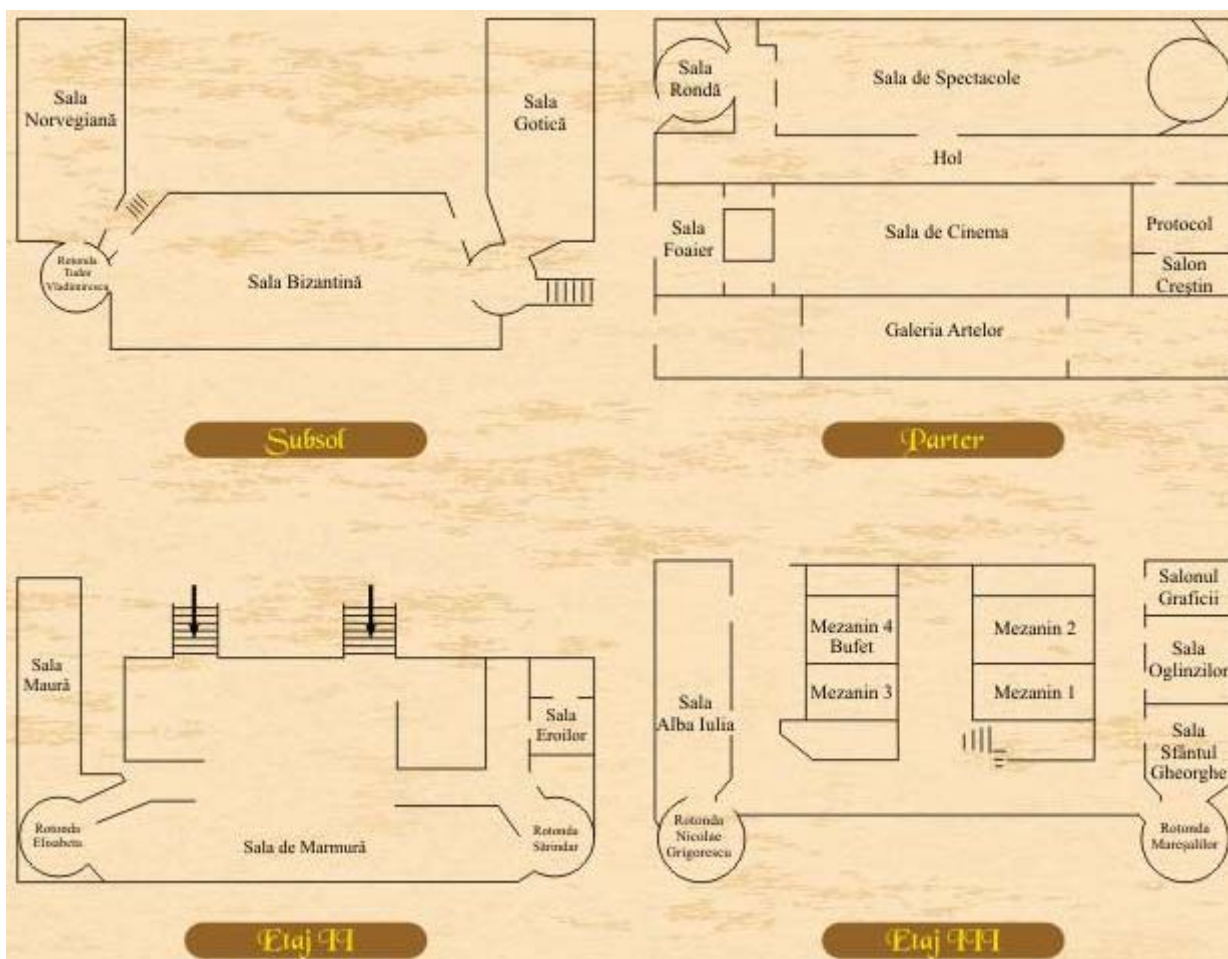
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# CONFERENCE CENTER LAYOUT

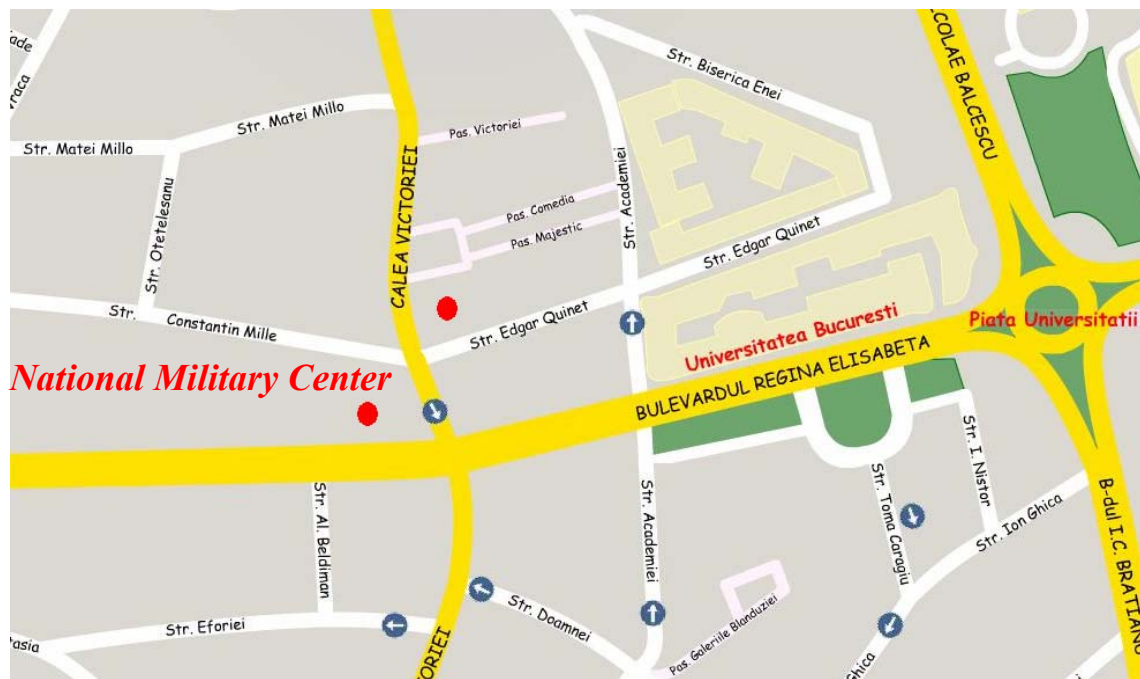
National Military Center	
3 <sup>rd</sup> Floor (Etaj III):	<i>Sala Sf. Gheorghe, Sala Oglinzilor, Sala Alba-Iulia, Rotonda Scriitorilor, Salonul Graficii</i>
2 <sup>nd</sup> Floor (Etaj II):	<i>Sala de Marmură, Sala Maură, Sala Ștefan cel Mare</i>
Ground floor (Parter):	<i>Sala Cinema, Sala Spectacole, Sala Protocol, Sala Rondă</i>
Basement floor (Subsol):	<i>Sala Bizantină, Sala Gotică</i>



# CONFERENCE MAP

The conference place

“Cercul Militar Național” (eng. National Military Center),  
*1<sup>st</sup>, Constantin Mille St., sect.1, Bucharest*



## USEFUL PHONE NUMBERS

Emergency call – **112**

Cercul Militar Național (eng. National Military Center) – **+4 021 313 86 80**

Conference secretariat – **+4 0723 206 749**

# **CONFERENCE PROGRAM**

**THURSDAY, June 10, 2010**

**8:00 – 9:00**

**Room Sala de Protocol:** *Author registration*

**9:00 – 13:00**

**Room Sala de Marmură:**

## **OPENING SESSION**

*Welcome messages*

**9:00 – 9:10**

Conference chair Prof. Ioan NICOLAESCU  
*Military Technical Academy*

**9:10 – 9:20**

Prof. Ecaterina ANDRONESCU  
*Rector of the “Politehnica” University of Bucharest*

**9:20 – 9:30**

Prof. Cristian BARBU  
*Rector of the Military Technical Academy*

**9:30 – 9:40**

Welcome speech from the participants

**9:40 – 11:40**

**Room Sala de Marmură: SESSION OF INVITED PAPERS**

*Chair:*

Ioan NICOLAESCU  
*Military Technical Academy, Romania*

**9:40 – 10:20**

**SOME CHALLENGING ISSUES ARISING IN THE DESIGN OF COMMUNICATIONS ANTENNAS – LARGE AND SMALL**

Raj MITTRA  
*The Pennsylvania State University, USA*

**10:20 – 11:00**

**THE RELATIVITY OF BANDWIDTH – THE PURSUIT OF TRULY ULTRA WIDEBAND RADIATORS FOR COMMUNICATION APPLICATIONS**

Leonardus P. LIGTHART  
*IRCTR, Delft University of Technology, The Netherlands*

**11.00 – 11:40**

**ASPECTS, ACHIEVEMENTS AND PERSPECTIVES OF STATE COMMUNICATIONS IN ROMANIA**

Marcel OPRIȘ

*Director of the Special Telecommunication Service, Romania*

**11:30 – 19:00**

**Room First Floor Hall:** *Exhibition*

**11:40 – 12:00**

**Room Sala Maură:** *Coffee break*

**12:00 – 13:00**

**Room Sala de Marmură: SPONSOR PRESENTATIONS**

*Chair:*

Petrică CIOTÎRNAE

*Military Technical Academy, Romania*

**12:00 – 12:30**

**ORANGE ROMANIA TECHNOLOGY ECOSYSTEM AS ENABLER FOR BROADBAND SERVICES REVOLUTION**

Cristian PAȚACHIA

*Orange Romania*

**12:30 – 13:00**

**COMMUNICATIONS IN THE FRAMEWORK OF SMARTER CITIES**

Aurelian IONESCU

*IBM Romania*

**13:00 – 14:30**

*Lunch*

**14:30 – 16:30**

*Parallel sessions, short course, workshop*

**14:30 – 16:30**

**Room 4 (Sala de Cinema): SHORT COURSE**

**GEMS: A GENERAL-PURPOSE ELECTROMAGNETIC SOLVER FOR MODELING ANTENNA AND EMI PROBLEMS**

Raj MITTRA

*The Pennsylvania State University, USA*



**15:00 – 17:00**

**Room *First Floor Hall*: RomTek Electronics Demonstration**

**INNOVATIVE TECHNOLOGIES FOR SIGNAL ANALYSIS IN TIME  
AND FREQUENCY DOMAINS**

**16:30 – 17:00**

**Room *Salonul Graficii, Sala Rondă***

*Coffee break*

**17:00 – 19:00**

*Parallel sessions, workshop*

**19:00 – 22:00**

**Room *Sala Bizantină*: *Cocktail***

## **FRIDAY, June 11, 2010**

**9:00 – 11:00**

*Parallel sessions, workshop*

**11:00 – 11:30**

**Room *Salonul Graficii, Sala Rondă***

*Coffee break*

**11:30– 13:30**

*Parallel sessions, workshop*

**9:00 – 13:00**

**Room *First Floor Hall*: *Exhibition***

**13:45 – 14:00**

**ROOM 3 (*Sala de Spectacole*): **CLOSING SESSION AND “BEST  
STUDENT PAPER” AWARD****

**PARALLEL SESSIONS, SHORT COURSE, WORKSHOPS SCHEDULE**

	<b>THURSDAY 10.06.2010 14:30 – 16:30</b>	<b>THURSDAY 10.06.2010 17:00 – 19:00</b>	<b>FRIDAY 11.06.2010 09:00 – 11:00</b>	<b>FRIDAY 11.06.2010 11:30 – 13:30</b>
<b>Room 1 :</b> <i>Sala Alba Iulia</i>	<b>Signal Processing 1</b>	<b>Signal Processing 2</b>	<b>Image Processing 1</b>	<b>Image Processing 2</b>
<b>Room 2 :</b> <i>Sala Ştefan cel Mare</i>	<b>Antennas, Propagation and Microwaves 1</b>	<b>Antennas, Propagation and Microwaves 2</b>	<b>Communication Networks and Systems 1</b>	<b>Communication Networks and Systems 2</b>
<b>Room 3 :</b> <i>Sala de Spectacole</i>	<b>WORKSHOP: State Communications 1</b>	<b>WORKSHOP: State Communications 2</b>	<b>SPECIAL SESSION: Cognitive Radio</b>	<b>SPECIAL SESSION: Key Issues in Optimal Communications</b>
<b>Room 4 :</b> <i>Sala de Cinema</i>	<b>SHORT COURSE GEMS: A general-purpose Electromagnetic Solver for Modeling Antenna and EMI Problems</b>	<b>Communications Security 1</b>	<b>Communications Security 2</b>	<b>Communications Security 3</b>
<b>Room 5 :</b> <i>Sala Oglinzilor</i>	<b>Wireless and Radio Communications 1</b>	<b>Wireless and Radio Communications 2</b>	<b>Wireless and Radio Communications 3</b>	<b>Computational Intelligence</b>
<b>Room 6 :</b> <i>Sala Sf. Gheorghe</i>	<b>Natural Language and Speech Processing 1</b>	<b>Natural Language and Speech Processing 2</b>	<b>WORKSHOP: Advanced Works on Transient Signal Characterization 1</b>	<b>WORKSHOP: Advanced Works on Transient Signal Characterization 2</b>
<b>Room 7 :</b> <i>Rotonda Scriitorilor</i>	<b>Internet Technologies</b>	<b>Communications Theory</b>		

# PARALLEL SESSIONS, WORKSHOPS

THURSDAY, June 10, 2010

14:30 – 16:30

## ROOM 1 (Sala Alba Iulia): SIGNAL PROCESSING 1

### *Chairs:*

Silviu CIOCHINĂ

*“Politehnica” University of Bucharest, Romania*

Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

14:30

### **THE MAJORITY PRINCIPLE IN TDOA ESTIMATION**

Raul IONEL, Sabin IONEL

*“Politehnica” University of Timișoara, Romania*

14:50

### **NON-LINEAR OPTIMAL CONTROL VIA PARTICLE RESOLUTION**

Ali KAZEM

*D.S.I Distribution Services Industriels, France*

Gérard SALUT

*LAAS/CNRS, France*

15:10

### **CHAOS PARAMETER MODULATION EQUALIZATION**

Victor GRIGORAȘ

*“Gheorghe Asachi” Technical University of Iasi, Romania*

Carmen GRIGORAȘ

*“Gr. T. Popa” University of Medicine and Pharmacy of Iasi, Romania*

15:30

### **HCA101: A CHAOTIC MAP BASED ON CELLULAR AUTOMATA WITH BINARY SYNCHRONIZATION PROPERTIES**

Radu DOGARU

*“Politehnica” University of Bucharest, Romania*

15:50

### **FPGA IMPLEMENTATION OF CHAOTIC CELLULAR AUTOMATON WITH BINARY SYNCHRONIZATION PROPERTY**

Ioana DOGARU, Radu DOGARU

*“Politehnica” University of Bucharest, Romania*

Cristian DAMIAN

*General Inspectorate for Emergency Situations, Romania*

16:10

**AUDIO SIGNALS NOISE REMOVAL REAL TIME SYSTEM**

Sorin ZOICAN

*“Politehnica” University of Bucharest, Romania*

16:30

**LEAST-SQUARES STRUCTURE ESTIMATION FOR A NONUNIFORM SUBSCRIBER LOOP**

Ioan DUMA, Alexandru TICLEA

*“Politehnica” University of Bucharest, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 1 (Sala Alba Iulia): SIGNAL PROCESSING 2**

*Chairs:*

Ioan NAFORNIȚĂ

*“Politehnica” University of Timișoara, Romania*

Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

17:00

**KALMAN NONCOHERENT DETECTION OF CPFSK SIGNAL**

Janos GAL, Andrei CAMPEANU, Ioan NAFORNIȚĂ

*“Politehnica” University of Timișoara, Romania*

17:20

**ANOMALY DETECTION OF NETWORK TRAFFIC BASED ON ANALYTICAL DISCRETE WAVELET TRANSFORM**

Marius SALAGEAN, Ioana FIROIU

*“Politehnica” University of Timișoara, Romania*

17:40

**EFFICIENT THREADS MAPPING ON MULTICORE ARCHITECTURE**

Iulian NITA, Adrian RAPAN

*“Politehnica” University of Bucharest, Romania*

Tiberiu SECELEANU

*ABB Corporate Research, Sweden*

Vasile LAZARESCU

*“Politehnica” University of Bucharest, Romania*

18:00

**COMPLETE COMPUTER PROGRAM FOR AUDIO RESTORATION**

Lucian STANCIU, Cristian STANCIU

*“Politehnica” University of Bucharest, Romania*

18:20

**NEW ALGORITHMS OF THE ABSOLUTE DEVIATION COVARIANCE AND CORRELATION**

Dragoş FALIE

*“Politehnica” University of Bucharest, Romania*

Livia DAVID

*University of Agronomic science and Veterinary Medicine of Bucharest*

18:40

**CONTROL BY BMS FOR A COOLING SYSTEM**

Cosmin POPESCU, Ovidiu RADU

*“Politehnica” University of Bucharest, Romania*

**THURSDAY, June 10, 2010**

**14:30 – 16:30**

**ROOM 6 (Sala Sf. Gheorghe): NATURAL LANGUAGE AND SPEECH PROCESSING 1**

*Chairs:*

Inge GAVĂT

*“Politehnica” University of Bucharest, Romania*

Gavril TODEREAN

*Technical University of Cluj-Napoca, Romania*

14:30

**A STUDY ON THE INFLUENCE OF PROSODY AND EXCITATION SOURCE MODEL ON SYNTHETIC SPEECH**

Marius COTESCU, Inge GAVAT

*“Politehnica” University of Bucharest, Romania*

14:50

**ROBUST AUTOMATIC TRANSCRIPTION OF ENGLISH SPEECH CORPORA**

Ahsanul KABIR

*Technical University of Cluj-Napoca, Romania*

Jon BARKER

*University of Sheffield, United Kingdom*

Mircea GIURGIU

*Technical University of Cluj-Napoca, Romania*

15:10

**A RULE-BASED APPROACH TO BUILD A TEXT-TO-SPEECH SYSTEM FOR ROMANIAN**

Ovidiu BUZA, Gavril TODEREAN, Jozsef DOMOKOS

*Technical University of Cluj-Napoca, Romania*

15:30

**TOOLKIT FOR AUTOMATIC ANALYSIS OF CHAT CONVERSATIONS**

Ana GAINARU, Stefan DUMITRESCU, Stefan TRAUSAN-MATU

*“Politehnica” University of Bucharest, Romania*

15:50

**QUANTIZED DYNAMIC TIME WARPING (DTW) ALGORITHM**

Tiberius ZAHARIA, Svetlana SEGARCEANU, Marius COTESCU,  
Alexandru SPATARU

*“Politehnica” University of Bucharest, Romania*

16:10

**PERCEPTUAL FEATURES IN SPEAKER IDENTIFICATION**

Svetlana SEGARCEANU, Tiberius ZAHARIA, Constantin RADOI

*“Politehnica” University of Bucharest, Romania*

16:30

**ON USING KULLBACK LEIBLER DISTANCE TO ESTIMATE VECTOR  
QUANTIZATION PERFORMANCE FOR LINE SPECTRUM FREQUENCY  
PARAMETERS**

Septimiu MISCHIE, Dan STOICIU

*“Politehnica” University of Timișoara, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 6 (Sala Sf. Gheorghe): NATURAL LANGUAGE AND SPEECH  
PROCESSING 2**

***Chairs:***

Eugeniu OANCEA

*Military Technical Academy, Romania*

Adriana VLAD

*“Politehnica” University of Bucharest, Romania*

17:00

**A COMPARISON BETWEEN TWO LITERARY PRINTED ROMANIAN  
CORPORA BASED ON THE STATISTICAL LETTER STRUCTURE WITH  
ORTHOGRAPHY AND PUNCTUATION MARKS**

Stefan CIUCA, Adriana VLAD, Adrian MITREA

*“Politehnica” University of Bucharest, Romania*

17:15

**ON THE OCCURRENCES OF TWO SUCCESSIVE WORDS IN A  
LITERARY ROMANIAN CORPUS**

Adrian MITREA, Adriana VLAD, Adrian LUCA

*“Politehnica” University of Bucharest, Romania*

17:30

**LEXICONS, SEMANTIC RELATIONS AND ONTOLOGIES**

Amelia MOLEA

*Military Technical Academy, Romania*

17:45

**AUTOMATIC SPEAKER VERIFICATION EXPERIMENTS USING HMM**

Doru-Petru MUNTEANU, Stefan-Adrian TOMA

*Military Technical Academy, Romania*

18:00

**SPEAKER IDENTIFICATION USING PARTIALLY CONNECTED  
LOCALLY RECURRENT PROBABILISTIC NEURAL NETWORKS**

Petru Marian BRICIU

*Military Technical Academy, Romania*

18:15

**A HMM/SVM HYBRID METHOD FOR SPEAKER VERIFICATION**

Florin RASTOCEANU, Diana MILITARU

*Military Equipment and Technologies Research Agency, Romania*

18:30

**A TD-PSOLA BASED METHOD FOR SPEECH SYNTHESIS AND  
COMPRESSION**

Stefan-Adrian TOMA

*Military Technical Academy, Romania*

Gabriel-Ionuț TARSA

*METRA, Romania*

Eugeniu OANCEA, Doru-Petru MUNTEANU, Felix Costinel TOTIR

Lucian ANTON

*Military Technical Academy, Romania*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 1 (Sala Alba Iulia): IMAGE PROCESSING 1**

***Chair:***

Vasile BUZULOIU

*“Politehnica” University of Bucharest, Romania*

Mihai DATCU

*DLR, German Aerospace Center, Germany*

09:00

**ACTION RECOGNITION USING TIME OF FLIGHT CAMERAS**

Serban OPRISESCU, Constantin BURLACU, Vasile BUZULOIU

*“Politehnica” University of Bucharest, Romania*

09:15

**A SPECTRAL SPACE-VARIANT APPROACH FOR STRUCTURE INDEXING IN SPOTLIGHT TERRASAR-X DATA**

Anca POPESCU, Carmen PATRASCU

*“Politehnica” University of Bucharest, Romania*

Jagmal SINGH, Mihai DATCU

*German Aerospace Center, Germany*

09:30

**LAND COVER DYNAMICS CLASSIFICATION USING MULTI-TEMPORAL SPECTRAL INDICES FROM SATELLITE IMAGE TIME SERIES**

Teodor COSTACHIOIU

*“Politehnica” University of Bucharest, Romania*

Mihai DATCU

*DLR, German Aerospace Center, Germany*

09:45

**“BUBBLE TAG”-BASED SYSTEM FOR OBJECT AUTHENTICATION**

Viorica PATRAUCEAN

*Military Technical Academy, Romania*

Pierre GURDJOS, Jean CONTER

*University of Toulouse, France*

10:00

**A SECOND ORDER STATISTICAL ANALYSIS OF THE 2D DISCRETE WAVELET TRANSFORM**

Corina NAFORNITA, Ioana FIROIU, Dorina ISAR

*“Politehnica” University of Timișoara, Romania*

Jean-Marc BOUCHER

*Telecom Bretagne, Brest, France*

Alexandru ISAR

*“Politehnica” University of Timișoara, Romania*

10:15

**ICA-BASED INFORMATION EXTRACTION METHOD FOR POLSAR IMAGES**

Felix TOTIR

*Military Technical Academy, Romania*

Gabriel VASILE, Michel GAY

*GIPSA-lab, France*

Lucian ANTON, George ILIE

*Military Technical Academy, Romania*

10:30

**SATELLITE IMAGE IMPROVEMENT USING PHASE INFORMATION AND WAVELET TRANSFORM**

Alina NISTORESCU, Monica BORDA

*Technical University of Cluj-Napoca, Romania*



**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 1 (Sala Alba Iulia): IMAGE PROCESSING 2**

*Chair:*

Vasile BUZULOIU

*“Politehnica” University of Bucharest, Romania*

Constantin VERTAN

*“Politehnica” University of Bucharest, Romania*

11:30

**COLOR IMAGE EDGE DETECTION BY PARALLEL COORDINATES-BASED COLOR DISTANCE**

Constantin VERTAN, Bogdan IONESCU, Mihai CIUC

*“Politehnica” University of Bucharest, Romania*

11:45

**RELEVANCE FEEDBACK APPROACHES FOR MPEG-7 CONTENT-BASED BIOMEDICAL IMAGE RETRIEVAL**

Ionut MIRONICA, Constantin VERTAN

*“Politehnica” University of Bucharest, Romania*

12:00

**SLEEP MONITORING AND SLEEP APNEA EVENTS DETECTION USING A 3D CAMERA**

Dragos FALIE

*“Politehnica” University of Bucharest, Romania*

Mihaela ICHIM

*University of Agronomic science and Veterinary Medicine of Bucharest, Romania*

12:15

**THE EVALUATION OF IMAGE NOISE REDUCTION FILTER IMPLEMENTATION WITH THE BLACKFIN MICROCOMPUTER**

Andrei STEFAN, Sorin ZOICAN

*“Politehnica” University of Bucharest, Romania*

12:30

**DATA MINING AND SPATIAL REASONING FOR SATELLITE IMAGE CHARACTERIZATION**

Corina VADUVA, Daniela FAUR, Inge GAVAT

*“Politehnica” University of Bucharest, Romania*

12:45

**ON IMAGE DENOISING WITH WAVELETS - A CASE STUDY BY CONSIDERING A PRIORI DISTORTION**

Anisia GOGU, Dorel AIORDACHIOAIE

*“Dunărea de Jos” Galați University, Romania*

13:00

**DETECTION OF PECTORAL MUSCLE IN MAMMOGRAMS USING A MEAN SHIFT SEGMENTATION APPROACH**

Alina SULTANA, Mihai CIUC, Rodica STRUNGARU  
*"Politehnica" University of Bucharest, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 7 (Rotonda Scriitorilor): COMMUNICATIONS THEORY**

*Chair:*

Nicolae Dumitru ALEXANDRU  
*"Gheorghe Asachi" Technical University of Iași, Romania*

17:00

**IMPROVED NYQUIST FILTER WITH A CONVEX-CONVEX PIECEWISE-PARABOLIC TRANSFER FUNCTION**

Nicolae Dumitru ALEXANDRU, Gabriela Doina BREABAN  
*"Gheorghe Asachi" Technical University of Iași, Romania*

17:20

**DESIGNING CONVOLUTIONAL CODES USED IN MULTI-BINARY TURBO CODES**

Maria BALTA, Miranda NAFORNITA, Maria KOVACI, Horia BALTA  
*"Politehnica" University of Timișoara, Romania*

17:40

**CHANNEL CAPACITY BEHAVIOR FOR SIMPLE MODELS OF OPTICAL FIBER COMMUNICATION**

Ira MOSKOWITZ  
*Naval Research Laboratory, United States*  
Paul COTAE  
*University of the District of Columbia, United States*  
Daniel KANG  
*Thomas Jefferson High School, United States*

18:00

**SELECTION OF COMPONENT CODES FOR ASYMMETRIC TURBO CODES MATCHED TO QPP INTERLEAVER**

Elena COJOCARIU, Lucian TRIFINA, Alexandru Georgian LAZAR  
*"Gheorghe Asachi" Technical University of Iasi, Romania*

18:20

**A NETWORK SYSTEMS ARCHITECTURE**

Dan DIMOFTE  
*Special Telecommunications Service, Romania*

**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 5 (Sala Oglinzilor): COMPUTATIONAL INTELLIGENCE**

*Chair:*

Victor-Emil NEAGOE

*“Politehnica” University of Bucharest, Romania*

11:30

**FACE RECOGNITION USING PCA VERSUS ICA VERSUS LDA  
CASCADED WITH THE NEURAL CLASSIFIER OF CONCURRENT SELF-  
ORGANIZING MAPS**

Victor-Emil NEAGOE, Alexandru-Cristian MUGIOIU

*“Politehnica” University of Bucharest, Romania*

Ioan-Anton STANCULESCU

*University of Edinburgh, United Kingdom*

11:50

**FACE DETECTION IN COLOR IMAGES USING FUSION OF THE  
CHROMINANCE AND LUMINANCE CHANNEL DECISIONS**

Victor-Emil NEAGOE, Mihai NEGHINA

*“Politehnica” University of Bucharest, Romania*

12:10

**LEARNING CLASSIFICATION RULES WITH GENETIC ALGORITHM**

Maria MUNTEAN

*“1 Decembrie 1918” University of Alba-Iulia, Romania*

Honoriu VALEAN

*Technical University of Cluj-Napoca, Romania*

Corina ROTAR, Ioan ILEANA

*“1 Decembrie 1918” University of Alba-Iulia, Romania*

12:30

**GANN SYSTEM TO OPTIMIZE BOTH TOPOLOGY AND NEURAL  
WEIGHTS OF A FEEDFORWARD NEURAL NETWORK**

Iulian VIZITIU, Florin POPESCU

*Military Technical Academy, Romania*

12:50

**HIGH-QUALITY HRR ATR SYSTEM USING AN IMPROVED NEURAL  
RECOGNITION CHAIN**

Iulian VIZITIU, Florin POPESCU, Stoica ADRIAN

*Military Technical Academy, Romania*

**THURSDAY, June 10, 2010**

**14:30 – 16:30**

**ROOM 2 (Sala Ștefan cel Mare): ANTENNAS, PROPAGATION AND MICROWAVES 1**

***Chairs:***

Yvon ERHEL

*French Military Academy of Saint-Cyr Coetquidan, France*

Piet Van GENDEREN

*Delft University of Technology, The Netherlands*

14:30

**A MIMO SOLUTION BASED ON POLARIZATION DIVERSITY FOR IONOSPHERIC RADIO LINKS**

Papa Moussa NDAO

*Institut d'Electronique et Télécommunications de Rennes, France*

Yvon ERHEL

*Centre de recherches des Ecoles de Saint-Cyr Coetquidan, France*

Dominique LEMUR

*Institut d'Electronique et Télécommunications de Rennes, France*

Jérôme LE MASSON

*Centre de recherches des Ecoles de Saint-Cyr Coetquidan, France*

14:50

**MULTIPLE CRITERION SELECTION OF HETEROGENEOUS CIRCULAR ARRAYS OF LOOP ANTENNAS**

Francois MARIE, Martial OGER, Dominique LEMUR

*Université de Rennes 1, France*

Yvon ERHEL

*Ecoles de St. Cyr Coetquidan, France*

15:10

**SYNTHETIC APERTURE ANTENNA PROCEDURE FOR A SFCW SENSOR**

Ioan NICOLAESCU

*Military Technical Academy, Romania*

Cristian COMAN

*NATO C3 Agency, The Netherlands*

Cătălin MORARU

*Department of Armament, Romania*

15:30

**SHIELDING SCREEN DESIGN OPTIMIZATION**

Daniela CAZANARU, Andrei SZILAGYI, Dan-Stefan STOICA

Petru MAZARE, Anca STOICA, Adina BOTEANU

*Military Equipment and Technologies Research Agency, Romania*

15:50

**THE GENERATED CURVE IN SYMMETRICAL PLANE FOR DOUBLE CURVED ANTENNA REFLECTOR WITH COSEC<sup>2</sup> PATTERN BEAM, ILLUMINATED BY A COS<sup>4</sup> PATTERN BEAM FOR PRIMARY RADIATOR**

Petru MAZARE, Andrei SZILAGYI, Dan-Stefan STOICA

Daniela CAZANARU, Anca STOICA, Camelia MAZĂRE

*Military Equipment and Technologies Research Agency, Romania*

Ioan NICOLAESCU

*Military Technical Academy, Romania*

16:10

**A NOVEL APPROACH FOR ULTRA-WIDEBAND MIMO CHANNEL MODELING**

Ana-Maria PISTEA

*Military Technical Academy, Romania*

Tudor PALADE, Anca MOLDOVAN

*Technical University of Cluj-Napoca, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 2 (Sala Ștefan cel Mare): ANTENNAS, PROPAGATION AND MICROWAVES 2**

***Chairs:***

Teodor PETRESCU

*“Politehnica” University of Bucharest, Romania*

George LOJEWSKI

*“Politehnica” University of Bucharest, Romania*

17:00

**SPECIFIC ABSORPTION RATES INDUCED IN A HETEROGENEOUS MODEL OF THE HUMAN FEMALE URINARY AND REPRODUCTIVE SYSTEMS**

Alina Ruxandra BULEANDRA, Teodor PETRESCU

*Universitatea Politehnica Bucuresti, Romania*

17:20

**DESIGN-CHARTS FOR GROUNDED, ELLIPTICALLY SHAPED MICROSTRIP PERIODIC SURFACE FEATURING ELECTROMAGNETIC BAND-GAP**

Aldo DE SABATA

*“Politehnica” University of Timișoara, Romania*

Ladislau MATEKOVITS

*Politecnico di Torino, Italy*

17:40

**BACKWARD COUPLERS USING COUPLED COMPOSITE RIGHT/LEFT-HANDED TRANSMISSION LINES**

Iulia Andreea MOCANU

*“Politehnica” University of Bucharest, Romania*

Marian Gabriel BANCIU

*National Institute of Materials Physics, Romania*

Nicolae MILITARU, George LOJEWSKI, Teodor PETRESCU

*“Politehnica” University of Bucharest, Romania*

18:00

**COMPARISONS OF BEAMFORMING TECHNIQUES FOR 4G WIRELESS COMMUNICATIONS SYSTEMS**

Florin TOȘA

*Military Technical Academy, Romania*

18:20

**CHARACTERIZATION OF MINIATURE NEAR FIELD PROBES FOR IC'S RADIATION MEASUREMENTS**

Cristian AVRAM, Gheorghe GAVRILĂ

*Military Technical Academy, Romania*

Junwu TAO

*National Polytechnic Institute, France*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 2 (Sala Ștefan cel Mare): COMMUNICATION NETWORKS AND SYSTEMS 1**

*Chair:*

Vasile BOTA

*Technical University of Cluj Napoca, Romania*

Grazziela NICULESCU

*“Politehnica” University of Bucharest, Romania*

09:00

**A COMMUNICATION WAVEFORM FOR RADAR**

Piet VAN GENDEREN

*Delft University of Technology, The Netherlands*

09:20

**DESIGNING A RELIABLE DCN FOR CONTROL PLANE SIGNALING IN GMPLS NETWORKS**

Horia STEFANESCU, Adrian MATEI, Silviu CIOCHINA

*“Politehnica” University of Bucharest, Romania*

09:40

**NETWORK-CODED COOPERATION ALGORITHM FOR MULTIPLE SOURCE – MULTIPLE RELAY TOPOLOGIES IN CELLULAR NETWORKS**

Mihai P. STEF, Zsolt A. POLGAR, Vasile BOTA, Anghel BOTOS  
*Technical University of Cluj-Napoca, Romania*

10:00

**EVALUATION OF PROTOCOLS FOR INDUSTRIAL INFORMATICS SYSTEMS**

Siegfried COJOCARU  
*National Institute for Research and Development in Informatics, Romania*

Radoi CONSTANTIN, Stefan STANCIU  
*“Politehnica” University of Bucharest, Romania*

10:20

**NGVN: A FRAMEWORK FOR NEXT GENERATION VEHICULAR NETWORKS**

Slawomir KUKLINSKI, Grzegorz WOLNY  
*Telekomunikacja Polska - Orange Labs, University of Warsaw, Poland*

Adrian MATEI  
*“Politehnica” University of Bucharest, Romania*

**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 2 (Sala Ștefan cel Mare): COMMUNICATION NETWORKS AND SYSTEMS 2**

*Chair:*

Grazziela NICULESCU  
*“Politehnica” University of Bucharest, Romania*

Vasile BOTA  
*Technical University of Cluj Napoca, Romania*

11:30

**AUTHENTICATION AND AUTHORIZATION ARCHITECTURE DESIGN FOR HYBRID MESH NETWORKS**

Radu LUPU, Mihai STANCIU  
*“Politehnica” University of Bucharest, Romania*

11:50

**RELIABILITY AND AVAILABILITY ENGINEERING FOR VOIP COMMUNICATIONS SYSTEMS**

Ioan PALADE  
*NATO Supreme Allied Commander Transformation, United States*

12:10

**EVALUATION OF GLOBAL DATABASE QUERIES CONFIGURATION  
INFLUENCE ON THE MESSAGE DELAY IN SS7 NETWORKS**

Petrica CIOTÎRNAE, Cristian Iulian RÎNCU

*Military Technical Academy, Romania*

Grazziela NICULESCU, Lucian IOAN

*“Politehnica” University of Bucharest, Romania*

12:30

**VIRTUAL ENTERPRISE NETWORK GENERAL ARCHITECTURE**

Sebastian Marius ROSU

*Special Telecommunications Service, Romania*

George DRAGOI

*“Politehnica” University of Bucharest, Romania*

**THURSDAY, June 10, 2010**

**14:30 – 16:30**

**ROOM 5 (Sala Oglinzilor): WIRELESS AND RADIO COMMUNICATIONS 1**

***Chairs:***

Paul COTAE

*University of the District of Columbia, United States*

Ion MARGHESCU

*“Politehnica” University of Bucharest, Romania*

14:30

**A CYCLOSTATIONARY BLIND DOPPLER ESTIMATION METHOD FOR  
UNDERWATER ACOUSTIC COMMUNICATIONS USING DIRECT-  
SEQUENCE SPREAD SPECTRUM SIGNALS**

Paul COTAE

*The University of the District of Columbia, United States*

T. C. YANG

*Naval Research Laboratory, United States*

14:50

**NEW DIVERSITY COMBINATION ALGORITHMS FOR DVB-T COFDM  
MOBILE RECEPTION**

Christian BROUSSEAU

*IETR - Université de Rennes 1, France*

Franck NIVOLE

*CELAR, France*

Stéphane AVRILLON, Dominique LEMUR, Louis BERTEL

*IETR - Université de Rennes 1, France*



15:10

**FECTCP FOR HIGH PACKET ERROR RATE WIRELESS CHANNELS**

Anghel BOTOS, Zsolt Alfred POLGAR, Zsuzsanna I. KISS

*Technical University of Cluj-Napoca, Romania*

15:30

**LINK ADAPTATION FOR COOPERATIVE COMMUNICATIONS WITH REPETITION CODING**

Mihaly VARGA, Vasile BOTA, Corina Maria BOTA, Mihai Alin BADIU

*Technical University of Cluj-Napoca, Romania*

15:50

**WAVELET OFDM PERFORMANCE IN FREQUENCY SELECTIVE FADING CHANNELS**

Marius OLTEAN, Miranda NAFORNITA

*“Politehnica” University of Timișoara, Romania*

16:10

**DESIGN ELEMENTS OF NEW CLASSES OF QUASI-ORTHOGONAL SPREADING CODES FOR TACTICAL SOFT FREQUENCY HOPPING RADIOS NETWORKS OPERATION IN MULTIPLE ACCESS AND TONE JAMMING ENVIRONMENT**

Victor GREU, Ion SIMA

*Military Technical Academy, Romania*

Eugen POP

*Automation Engineering Company, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 5 (Sala Oglinzilor): WIRELESS AND RADIO COMMUNICATIONS 2**

***Chairs:***

Ion BĂNICĂ

*“Politehnica” University of Bucharest, Romania*

Erchin SERPEDIN

*Texas A&M University, United State*

17:00

**EFFICIENT DETECTION OF FSK-SIGNALS BASED ON CYCLIC STATISTICS**

Yi ZHOU, Khalid QARAQE, Erchin SERPEDIN

*Texas A&M University, United States*

Octavia DOBRE

*Memorial University of Newfoundland, Canada*

17:20

**DYNAMIC OCDMA CODING FOR INDOOR WIRELESS OPTICAL COMMUNICATIONS**

Radu LUCACIU, Adrian MIHĂESCU

*“Politehnica” University of Timișoara, Romania*

Călin VLĂDEANU

*“Politehnica” University of Bucharest, Romania*

17:40

**PERFORMANCE ANALYSIS OF UPLINK RESOURCE ALLOCATION IN WIMAX**

Elena Roxana CIRSTEA, Oana IOSIF, Silviu CIOCHINA, Ion BANICA

*“Politehnica” University of Bucharest, Romania*

18:00

**SPATIAL MULTIPLEXING AND DIVERSITY IN A MIMO BASED WLAN SYSTEM**

Ancuta MOLDOVAN, Tudor PALADE, Ana-Maria PISTEA

Emanuel PUSCHITA, Rebeca COLDA, I. VERMESAN, C. ANDRONE

*Technical University of Cluj-Napoca, Romania*

18:20

**INDOOR WIRELESS OPTICAL COMMUNICATIONS**

Adrian MIHAESCU

*“Politehnica” University of Timișoara, Romania*

Pascal BESNARD

*ENSSAT, France*

18:40

**ON IMPROVING TIME RANGE MEASUREMENTS FOR ISM NODES LOCATION**

Nicusor BIRSAN, Gheorghe IUBU

*Military Technical Academy, Romania*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 5 (Sala Oglinzilor): WIRELESS AND RADIO COMMUNICATIONS 3**

***Chairs:***

Ion BĂNICĂ

*“Politehnica” University of Bucharest, Romania*

Corneliu-Eugen STERIAN

*“Politehnica” University of Bucharest, Romania*

09:00

**A NEW METHOD OF DECODING SPACE-TIME TRELLIS CODES USING DIFFERENTIAL M-PSK FOR NONCOHERENT MOBILE COMMUNICATION SYSTEMS**

Corneliu-Eugen STERIAN, Ion BANICA

*“Politehnica” University of Bucharest, Romania*

09:20

**DOUBLE OPPORTUNISTIC TRANSMIT RELAYING SYSTEM WITH GSC FOR POWER SAVING IN RAYLEIGH FADING CHANNEL**

Nam-Soo KIM

*Cheongju University, Republic Of Korea*

Ye Hoon LEE

*Seoul National University of Technology, Republic Of Korea*

09:40

**A SIP-BASED CROSS-LAYER OPTIMIZATION FOR WIMAX HARD HANDOVER**

Mihai CONSTANTINESCU, Eugen BORCOCI

*“Politehnica” University of Bucharest, Romania*

10:00

**HYBRID WIRELESS MESH NETWORKS REQUIREMENTS COLLECTION FOR INTEGRATION IN END TO END ARCHITECTURES**

Eugen BORCOCI, Radu LUPU

*Universitatea Politehnica Bucuresti, Romania*

10:20

**CHANNEL ASSIGNMENT FOR WIRELESS MESHES WITH TREE TOPOLOGY**

Dragoş NICULESCU

*Univeritatea Politehnica Bucuresti, Romania*

Sudeept BHATNAGAR

*Airtight Networks, India*

Samrat GANGULY

*NEC Corporation of America, United States*

**THURSDAY, June 10, 2010**

**14:30 – 16:30**

**ROOM 7 (Rotonda Scriitorilor): INTERNET TECHNOLOGIES**

***Chair:***

Eugen BORCOCI

*“Politehnica” University of Bucharest, Romania*

14:30

**AN IP MULTICAST - HTTP GATEWAY FOR RELIABLE STREAMING IN HETEROGENEOUS NETWORKS**

Ion BICA, Stefan-Vladimir GHITA, Mihai TOGAN  
*Military Technical Academy, Romania*

14:50

**THEORY OF SATISFACTORY DECISIONS AND ITS APPLICATION TO CONFLICT RESOLUTION**

Adrian MIHALACHE  
*“Politehnica” University of Bucharest, Romania*  
Viorel IONESCU  
*Military Technical Academy, Romania, Romania*

15:10

**WEB BROWSER ENERGY CONSUMPTION**

Frederic CAMPS, Jean FANCHON  
*CNRS, France*

15:30

**MOBILE APPLICATION FOR NEWS ACCESS AND VIRTUAL COMMUNITY INTERACTIVE SERVICES**

Eduard-Cristian POPOVICI, Mihai STANGACIU, Mihnea-Andrei MAGHETI  
*“Politehnica” University of Bucharest, Romania*

15:50

**FRACTAL WEB SERVICE COMPOSITION FRAMEWORK**

Liviu Adrian COTFAS, Andreea DIOSTEANU, Ion SMEUREANU  
*Bucharest Academy of Economic Studies, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 4 (Sala de Cinema): COMMUNICATIONS SECURITY 1**

*Chairs:*

Safwan EL ASSAD  
*École Polytechnique de l’Université de Nantes, France*  
Monica BORDA  
*Technical University of Cluj-Napoca, Romania*

17:00

**DESIGN OF A FAST AND ROBUST CHAOS-BASED CRYPTO-SYSTEM FOR IMAGE ENCRYPTION**

Hassan NOURA, Safwan EL ASSAD  
*École polytechnique de l’université de Nantes, France*  
Calin VLADANU  
*Université polytechnique de Bucarest, Romania*

17:20

**A STRUCTURED APPROACH FOR IMPLEMENTING CYBER SECURITY EXERCISES**

Adrian FURTUNA, Victor-Valeriu PATRICIU, Ion BICA  
*Military Technical Academy, Romania*

17:40

**DNA SECRET WRITING TECHNIQUES**

Monica Elena BORDA, Olga TORNEA  
*Technical University of Cluj-Napoca, Romania*

18:00

**MPEG-4 AVC ROBUST VIDEO WATERMARKING BASED ON QIM AND PERCEPTUAL MASKING**

Maher BELHAJ, Mihai MITREA, Francoise PRETEUX  
*Institut Télécom, France*  
Sorin DUTA  
*“Politehnica” University of Bucharest, Romania*

18:20

**SPECIFICATION AND VERIFICATION OF SECURITY PROPERTIES OF E-CONTRACTS**

Anas ABOU EL KALAM  
*Université de Toulouse, IRIT, INP / ENSEEIHT, France*  
Nourredine IDBOUFKER  
*UCAM, ENSA, Morocco*

18:40

**INTEROPERABILITY ISSUES AMONG VARIOUS IPSEC IMPLEMENTATIONS**

Cristina VINTILA  
*Military Technical Academy, Romania*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 4 (Sala de Cinema): COMMUNICATIONS SECURITY 2**

*Chairs:*

Safwan EL ASSAD  
*École Polytechnique de l’Université de Nantes, France*  
Victor-Valeriu PATRICIU  
*Military Technical Academy, Romania*

09:00

**DESIGN, EVALUATION AND CERTIFICATION OF ELLIPTIC CURVE CRYPTO-PROCESSOR**

Emil SIMION

*University of Bucharest, Romania*

Marius Iulian MIHAILESCU

*„Titu Maiorescu” University, Romania*

09:20

**THE BEHAVIOUR OF THE CRYPTOGRAPHIC PRIMITIVES IN CASE OF LARGE DATA VOLUMES**

Radu-Daniel TOMOIAGA, Mircea STRATULAT

*“Politehnica” University of Timișoara, Romania*

09:40

**BIOMETRIC PASSPORTS (EPASSPORTS)**

Adrian ATANASIU

*University of Bucharest, Romania*

Marius Iulian MIHAILESCU

*„Titu Maiorescu” University, Romania*

10:00

**DIGITAL WATERMARKING SECURED WITH PWLCM, CHAOTIC FEED-BACK AND LSB DATA HIDING**

Cristian-Gabriel APOSTOL

Cristian-Iulian RÎNCU

*Military Technical Academy, Romania*

10:20

**SECURITY ANALYSIS OF ROBUST USER AUTHENTICATION PROTOCOL**

Mihai PURA, Victor PATRICIU

*Military Technical Academy, Romania*

10:40

**STUDY ON A TRUE RANDOM NUMBER GENERATOR DESIGN FOR FPGA**

Ionut-Gabriel TARSA, Gigi-Daniel BUDARIU, Constantin GROZEA

*Military Equipment and Technologies Research Agency, Romania*

11:00

**APPLICATION OF GROSS CRYPTANALYSIS BASED ON MULTIPLE ENCRYPTION ENTITIES**

Constantin GROZEA, Gigi-Daniel BUDARIU

*Military Equipment and Technologies Research Agency, Romania*

**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 4 (Sala de Cinema): COMMUNICATIONS SECURITY 3**

*Chairs:*

Monica BORDA

*Technical University of Cluj-Napoca, Romania*

Victor-Valeriu PATRICIU

*Military Technical Academy, Romania*

11:30

**A CERTIFICATE - BASED SIGNATURE SCHEME FOR SECURE MOBILE COMMUNICATIONS**

Mihai SERB, Mihai TOGAN

*Military Technical Academy, Romania*

11:50

**STATISTICAL EVALUATION OF CRYPTOGRAPHIC ALGORITHMS**

Mircea ANDRASIU, Adrian POPESCU

*Military Technical Academy, Romania*

Gheorghe SIMION

*“Politehnica” University of Bucharest, Romania*

12:10

**PUBLIC KEY INFRASTRUCTURE FOR PUBLIC ADMINISTRATION IN ROMANIA**

Nicusor VATRA

*The Bucharest Academy of Economic Studies, Romania*

12:30

**WIMAX NETWORK SECURITY PLAN - OPEN TARGET FOR NEW IMPLEMENTATIONS**

Catalin-Teodor DOGARU

*“Politehnica” University of Bucharest, Romania*

12:50

**A SECURE COMMUNICATION SYSTEM FOR CLASSIFIED DOCUMENTS OVER PUBLIC NETWORK**

Laurentiu BURDUSEL

*“Politehnica” University of Bucharest, Romania*

13:10

**VOICE END-TO-END ENCRYPTED FOR TETRA RADIOCOMMUNICATION SYSTEM**

Marian BURIC

*Protection and Guard Service, Romania*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 3 (Sala de Spectacole): SPECIAL SESSION: COGNITIVE RADIO**

*Chairs:*

Victor CROITORU

*“Politehnica” University of Bucharest, Romania*

Nuno PRATAS

*Aalborg University, Denmark*

09:00

**IPSAG: AN IP SPECTRUM AWARE GEOGRAPHIC ROUTING ALGORITHM PROPOSAL FOR MULTI-HOP COGNITIVE RADIO NETWORKS**

Cornelia Ionela BĂDOI, Victor CROITORU

*“Politehnica” University of Bucharest, Romania*

Ramjee PRASAD

*AALBORG University, Denmark*

09:20

**CAPACITY LIMITS INTRODUCED BY DATA FUSION ON COOPERATIVE SPECTRUM SENSING UNDER CORRELATED ENVIRONMENTS**

Nuno PRATAS, Nicola MARCHETTI

*Aalborg University, Denmark*

Antonio RODRIGUES

*IT/IST, Technical University of Lisbon, Portugal*

Ramjee PRASAD

*Aalborg University, Denmark*

09:40

**SELF-ORGANIZING NETWORKS: STATE-OF-THE-ART, CHALLENGES AND PERSPECTIVES**

Nicola MARCHETTI, Neeli PRASAD

*Aalborg University, Denmark*

Johan JOHANSSON, Tao CAI

*Huawei Technologies AB, Sweden*

10:00

**CTMC BASED SPECTRUM SHARING SCHEME FOR COGNITIVE RADIO NETWORKS**

Kishor PATIL, Madhukar DESHMUKH, Horia CORNEAN

*Aalborg University, Denmark*

10:20

**COOPERATIVE OPPORTUNISTIC LARGE ARRAY APPROACH FOR COGNITIVE RADIO NETWORKS**

Vandana ROHOKALE, Nandkumar KULKARNI, Neeli PRASAD

Horia CORNEAN

*Aalborg University, Denmark*



**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 3 (Sala de Spectacole): SPECIAL SESSION: KEY ISSUES IN OPTIMAL COMMUNICATIONS**

*Chair:*

Octavian FRATU, Simona HALUNGA

*“Politehnica” University of Bucharest, Romania*

11:30

**SOLUTION FOR IMPLEMENTING IEEE 802.21 MEDIA INDEPENDENT INFORMATION SERVICE**

Valentin ANDREI

*SOFTWIN, Romania*

Eduard Cristian POPOVICI, Octavian FRATU, Simona HALUNGA

*“Politehnica” University of Bucharest, Romania*

11:50

**QUALNET IMPLEMENTATION FOR MOBILITY MANAGEMENT IN A MIH ENABLED SYSTEM**

Alexandru VULPE, Serban Georgica OBREJA, Oana BARBU

Catalina PENCIU, Mircea BUGA, Bogdan CIOBOTARU

*“Politehnica” University of Bucharest, Romania*

12:10

**EFFICIENT SPECTRUM UTILIZATION: A COGNITIVE APPROACH**

Bisera JANKULOSKA, Mihajlo PAVLOSKI, Milan ZAHARIEV

Vladimir ATANASOVSKI, Liljana GAVRILOVSKA

*Ss Cyril and Methodius University in Skopje, Macedonia*

12:30

**A POLICY REASONING ARCHITECTURE FOR COGNITIVE RADIO NETWORKS**

Valentina PAVLOVSKA, Daniel DENKOVSKI, Vladimir ATANASOVSKI

Liljana GAVRILOVSKA

*Ss. Cyril and Methodius University, Macedonia*

12:50

**MMSE MULTIUSER DETECTOR PERFORMANCES IMPROVEMENT WITH CONVOLUTIONAL AND TURBO CODING**

Cristinel VASILE, Ioana M. MARCU, Simona V. HALUNGA

Dragos. N. VIZIREANU

*“Politehnica” University of Bucharest, Romania*

13:10

**A SIMULATION TESTBED FOR A MIH ENABLED SYSTEM**

Şerban Georgică OBREJA, Octavian FRATU, Alexandru VULPE

*“Politehnica” University of Bucharest, Romania*

**THURSDAY, June 10, 2010**

**14:30 – 16:30**

**ROOM 3 (Sala de Spectacole): WORKSHOP: STATE COMMUNICATIONS 1**

*Chair:*

Marcel OPRIȘ, Corneliu GRIGORE

*Special Telecommunication Service, Romania*

14:30

**A HISTORY OF STATE COMMUNICATIONS**

Gabriel CONSTANTIN, Ovidiu LUCHIAN

*Special Telecommunication Service, Romania*

14:50

**ASPECTS REGARDING STATE TELECOMMUNICATIONS SECURITY**

Ghiță MIRCEA, Gabriel DAVID

*Special Telecommunication Service, Romania*

15:10

**EXTENSION AND CONSOLIDATION OF THE INTEGRATED MULTISERVICE TELECOMMUNICATIONS STATE INFRASTRUCTURE OPERATED BY STS FOR SCHENGEN INFORMATION SYSTEM IMPLEMENTATION IN ROMANIA**

Sorin BĂNICĂ

*Special Telecommunication Service, Romania*

15:30

**LEGAL MATTERS CONCERNING THE STATE COMMUNICATIONS IN ROMANIA**

Anemari CURCĂ

*Special Telecommunication Service, Romania*

15:50

**MEASUREMENT OF INFORMATION SIGNAL IN RADIATED ELECTROMAGNETIC INTERFERENCE**

Mircea POPESCU, Alexandru BOITAN, Răzvan BĂRTUȘICĂ

*Special Telecommunication Service, Romania*

16:10

**MECHANISMS FOR DIGITAL SIGNATURE VALIDATION BETWEEN ISOLATED CERTIFICATION AUTHORITIES**

Cristian ZAIU, Nicușor VATRĂ, Sergiu VOICEA

*Special Telecommunication Service, Romania*

**THURSDAY, June 10, 2010**

**17:00 – 19:00**

**ROOM 3 (Sala de Spectacole): WORKSHOP: STATE COMMUNICATIONS 2**

*Chair:*

Marcel OPRIȘ, Sorin VASILCA

*Special Telecommunication Service, Romania*

17:00

**NGN NETWORK, SOLUTION FOR THE STATE CRITICAL COMMUNICATIONS NETWORK**

Eugen CIUTARU

*Special Telecommunication Service, Romania*

17:20

**OPEN-SOURCE SOFTWARE FOR A SECURE COMMUNICATIONS SYSTEM**

Mihai ȘERB, Silviu VLĂSCÉANU

*Special Telecommunication Service, Romania*

17:40

**PUBLIC KEY INFRASTRUCTURE SERVICES FOR SECURING GOVERNMENTAL DIGITAL COMMUNICATIONS**

Gabriel DAVID, Cătălin CHIȚESCU

*Special Telecommunication Service, Romania*

18:00

**SOLUTIONS FOR ENHANCED SECURITY USING HIGH INTERACTION HONEY POT IN A GOVERNMENTAL CSIRT INFRASTRUCTURE**

Adrian PĂUNA, Nicolai-Alexandru COSTINEAN

*Special Telecommunication Service, Romania*

18:20

**TEMPEST EVALUATION - ASPECT OF ELECTROMAGNETIC COMPATIBILITY SUPPORT FOR INFOSEC**

Mircea POPESCU, Alexandru BOITAN, Răzvan BĂRTUȘICĂ

*Special Telecommunication Service, Romania*

18:40

**THE GLOBAL CATALOG CONCEPT IN THE EMERGENCY SITUATIONS MANAGEMENT**

Andrei GROSOSIU, Robert OARGA

*Special Telecommunication Service, Romania*

**FRIDAY, June 11, 2010**

**09:00 – 11:00**

**ROOM 6 (Sala Sf. Gheorghe): WORKSHOP: ADVANCED WORKS ON TRANSIENT SIGNAL CHARACTERISATION, 3<sup>rd</sup> edition**

*Chairs:*

Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

Cornel IOANA

*INP Grenoble, France*

09:00

**WORKSHOP OPENNING**

09:30

**GEOMETRIC SCIENCE OF INFORMATION: MODERN GEOMETRIC FOUNDATION OF RADAR SIGNAL PROCESSING**

Frédéric BARBARESCO

*Thalès Airborne Systems, France*

10:00

**ADVANCED RESEARCH IN SIGNAL PROCESSING APPLIED TO ENERGY DOMAINS**

Gui D'URSO

*Electricité de France R&D, France*

**FRIDAY, June 11, 2010**

**11:30 – 13:30**

**ROOM 6 (Sala Sf. Gheorghe): ADVANCED WORKS ON TRANSIENT SIGNAL CHARACTERISATION, 3<sup>rd</sup> edition**

*Chairs:*

Cornel IOANA

*INP Grenoble, France*

Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

11:30

**TRANSIENT PHENOMENA ANALYSIS – CURRENT RESULTS AND FUTURE RESEARCHES**

Cornel IOANA

*INP Grenoble, France*

Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

12:00

**STABLE SCATTERERS DETECTION AND TRACKING IN  
HETEROGENEOUS CLUTTER BY REPEAT-PASS SAR  
INTERFEROMETRY**

Gabriel VASILE

*INP Grenoble, France*

12:30

**RECCURENCE PLOT ANALYSIS – EMERGING TOOL FOR NON-  
STATIONARY SIGNAL PROCESSING**

Florin BIRLEANU, Alexandru ȘERBĂNESCU

*Military Technical Academy, Romania*

**PARALLEL SESSIONS, SHORT COURSE, WORKSHOPS SCHEDULE**

	<b>THURSDAY 10.06.2010 14:30 – 16:30</b>	<b>THURSDAY 10.06.2010 17:00 – 19:00</b>	<b>FRIDAY 11.06.2010 09:00 – 11:00</b>	<b>FRIDAY 11.06.2010 11:30 – 13:30</b>
<b>Room 1 :</b> <i>Sala Alba Iulia</i>	<b>Signal Processing 1</b>	<b>Signal Processing 2</b>	<b>Image Processing 1</b>	<b>Image Processing 2</b>
<b>Room 2 :</b> <i>Sala Ştefan cel Mare</i>	<b>Antennas, Propagation and Microwaves 1</b>	<b>Antennas, Propagation and Microwaves 2</b>	<b>Communication Networks and Systems 1</b>	<b>Communication Networks and Systems 2</b>
<b>Room 3 :</b> <i>Sala de Spectacole</i>	<b>WORKSHOP: State Communications 1</b>	<b>WORKSHOP: State Communications 2</b>	<b>SPECIAL SESSION: Cognitive Radio</b>	<b>SPECIAL SESSION: Key Issues in Optimal Communications</b>
<b>Room 4 :</b> <i>Sala de Cinema</i>	<b>SHORT COURSE GEMS: A general-purpose Electromagnetic Solver for Modeling Antenna and EMI Problems</b>	<b>Communications Security 1</b>	<b>Communications Security 2</b>	<b>Communications Security 3</b>
<b>Room 5 :</b> <i>Sala Oglinzilor</i>	<b>Wireless and Radio Communications 1</b>	<b>Wireless and Radio Communications 2</b>	<b>Wireless and Radio Communications 3</b>	<b>Computational Intelligence</b>
<b>Room 6 :</b> <i>Sala Sf. Gheorghe</i>	<b>Natural Language and Speech Processing 1</b>	<b>Natural Language and Speech Processing 2</b>	<b>WORKSHOP: Advanced Works on Transient Signal Characterization 1</b>	<b>WORKSHOP: Advanced Works on Transient Signal Characterization 2</b>
<b>Room 7 :</b> <i>Rotonda Scriitorilor</i>	<b>Internet Technologies</b>	<b>Communications Theory</b>		

### **ADDITIONAL INFORMATION**

<b>ROOM</b>	<b>THURSDAY 10.06.2010</b>	<b>FRIDAY 11.06.2010</b>
<b><i>Sala Protocol</i></b>	<b>08:00 – 19:00 <i>Conference secretariat</i></b>	<b>08:00 – 13:00 <i>Conference secretariat</i></b>
<b><i>Sala de Marmură</i></b>	<b>09.00 - 13.00 <i>Opening session</i></b>	
<b><i>Room 3 : Sala de Spectacole</i></b>		<b>13.45 - 14.00 <i>Closing session &amp; “Best Student Paper” Award</i></b>
<b><i>First Floor Hall</i></b>	<b>09:00 – 19:00 <i>Exhibition</i></b>	<b>09:00 – 13:00 <i>Exhibition</i></b>
<b><i>Sala Maură</i></b>	<b>11:40 - 12.00 <i>Coffee break</i></b>	
<b><i>Sala Bizantină</i></b>	<b>19:00 – 22:00 <i>Cocktail</i></b>	
<b><i>Salonul Graficii, Sala Rondă</i></b>	<b>16:30 - 17.00 <i>Coffee break</i></b>	<b>11:00 - 11.30 <i>Coffee break</i></b>

