



The 11th International Conference on
COMMUNICATIONS

The logo for the 11th International Conference on Communications (comm2016) features a stylized orange and blue graphic on the left and the text 'comm2016' in blue and orange on the right.

Organized by

Military Technical Academy
Politehnica University of Bucharest

Under the Aegis of

IEEE Romania Section
Romanian Academy of Technical Sciences



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Anja SKRIVERVIK	École Polytechnique Fédérale de Lausanne, <i>Switzerland</i>
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Călin VLĂDEANU	Politehnica University of Bucharest, <i>Romania</i>
Alexandru VULPE	Politehnica University of Bucharest, <i>Romania</i>
Roua YOUSSEF	University of Western Brittany, <i>France</i>
Sorin ZOICAN	Politehnica University of Bucharest, <i>Romania</i>

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Conference Center Layout



3rd Floor

Sala Sf. Gheorghe, Sala Oglinzilor, Sala Alba-Iulia, Salonul Graficii

2nd Floor

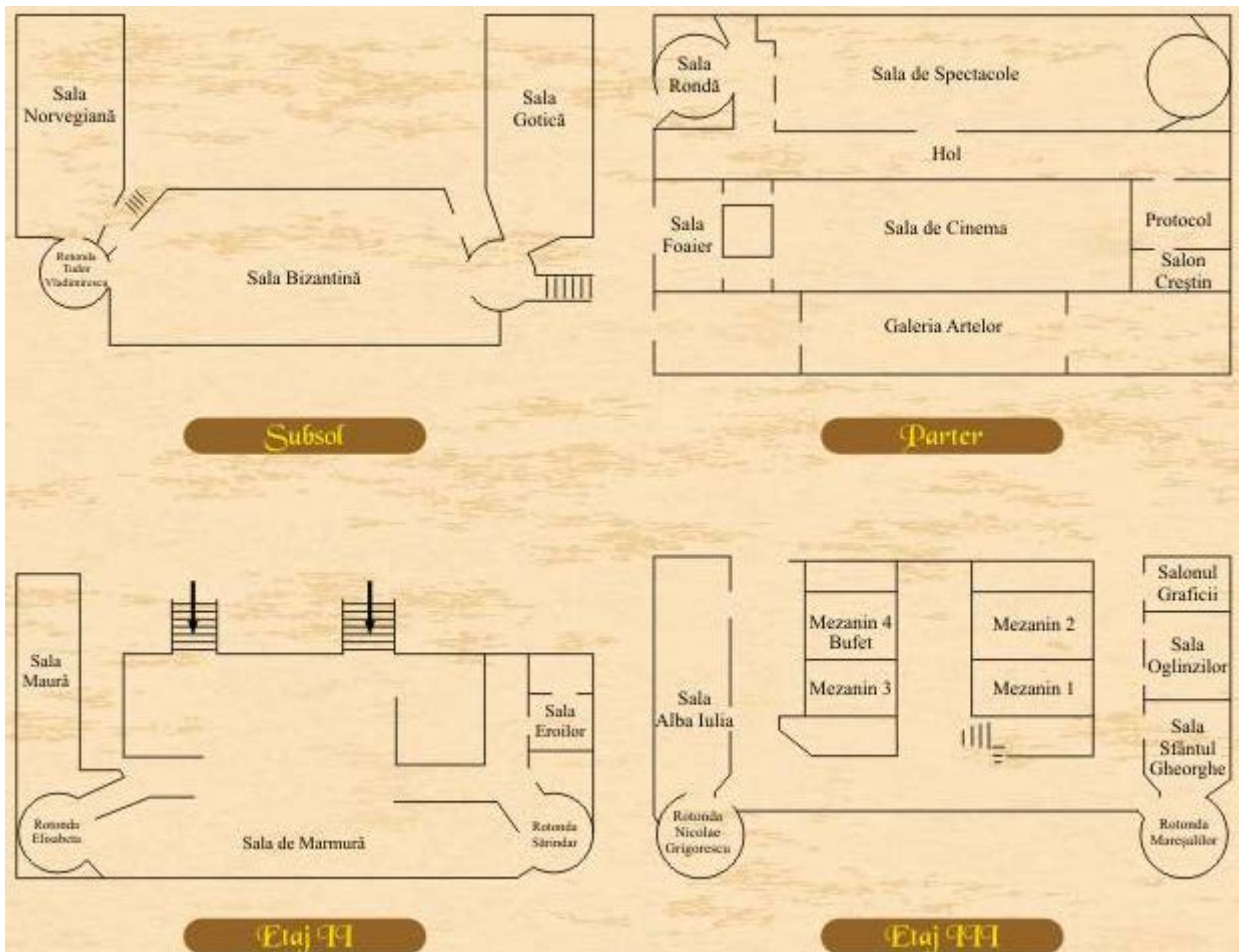
Sala de Marmură, Salonul Fondatorilor, Sala Maură

Ground Floor

Sala de Cinema, Sala de Spectacole, Sala de Protocol, Sala Rondă

Basement Floor

Sala Bizantină, Sala Gotică



Conference Map

The Conference Place

National Military Center
1 Constantin Mille Street,
Sector 1, Bucharest

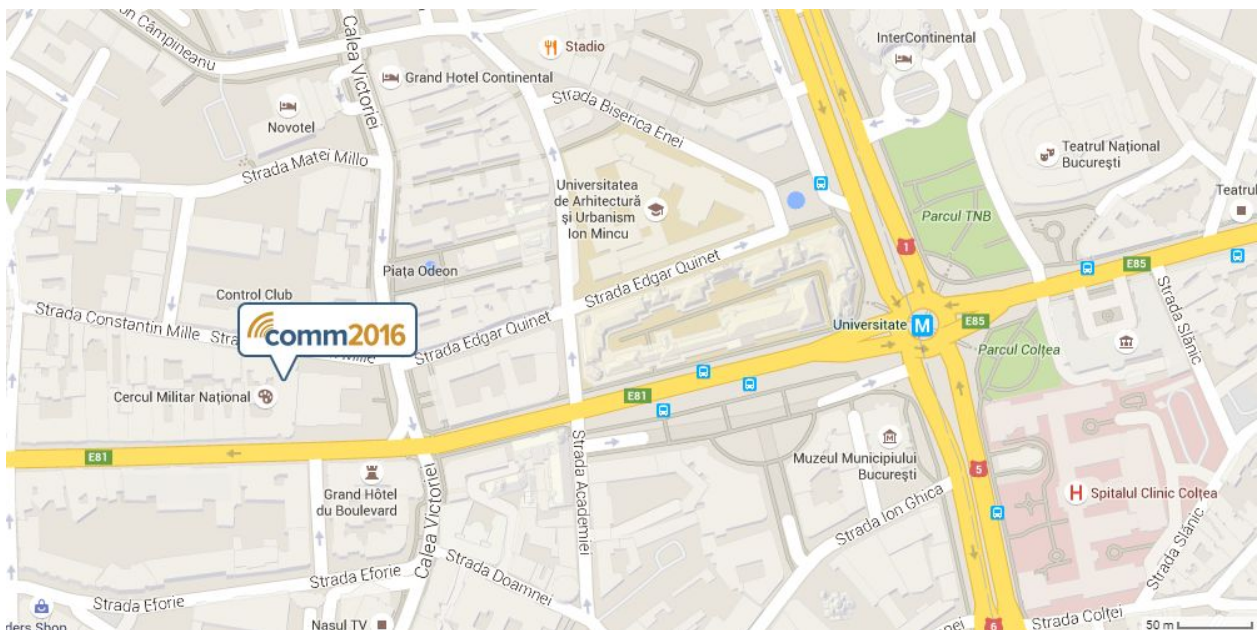
Cercul Militar Național
Strada Constantin Mille nr. 1,
Sector 1, București

Google Maps

<https://goo.gl/maps/1fkhsKxfaQs>

Latitude
44.435216 N

Longitude
26.097084 E



Useful Phone Numbers

112

Emergency call

+4 021 313 86 80

National Military Center

+4 0751 534 674

+4 0761 323 047

Conference Secretariat

Conference Program

Thursday, June 9th, 2016	
08⁰⁰–09⁰⁰	Participants Registration <i>Room Sala de Protocol</i>
09⁰⁰–13⁰⁰	Opening Session, Welcome Speeches, Invited Papers <i>Room Sala de Marmură</i>
09⁰⁰–09⁰⁵	Conference Chairs Ioan NICOLAESCU , Military Technical Academy, <i>Romania</i> Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i>
09⁰⁵–09¹⁰	Iulian Constantin VIZITIU , Rector of the Military Technical Academy, <i>Romania</i>
09¹⁰–09¹⁵	Mihnea COSTOIU , Rector of the Politehnica University of Bucharest, <i>Romania</i>
09¹⁵–09²⁰	Marius Cătălin MARINESCU , President of ANCOM, <i>Romania</i>
09²⁰–09²⁵	Mircea EREMIA , President of IEEE Romania Section, <i>Romania</i>
09²⁵–09⁴⁰	Participants' Welcome Speech
09⁴⁰–10⁴⁰	Invited Papers Session 1 <i>Room Sala de Marmură</i> Chair Ioan NICOLAESCU , Military Technical Academy, <i>Romania</i>
09⁴⁰–10¹⁰	<i>Reconfigurability of Radar Systems</i> Piet VAN GENDEREN , Delft University of Technology, <i>Netherlands</i>
10¹⁰–10⁴⁰	<i>Trends in Modelling and Simulation of Mobile Radio Channels</i> Matthias Uwe PÄTZOLD , University of Agder Grimstad, <i>Norway</i>
10⁴⁰–10⁴⁵	Group Photo <i>Room Salonul Fondatorilor</i>
10⁴⁵–11¹⁰	Break <i>Room Sala Maură</i>
11¹⁰–13⁰⁰	Sponsor Presentations <i>Room Sala de Marmură</i> Chair Petrică CIOTÎRNAE , Military Technical Academy, <i>Romania</i> Amelia CIOBANU , Politehnica University of Bucharest, <i>Romania</i>
11¹⁰–11⁴⁰	<i>Evolution to Next generation Emergency Services (NEXES) – Horizon 2020 proposal</i> Marius IORDACHE , Orange, <i>Romania</i>
11⁴⁰–11⁵⁵	<i>A smart Society is a Connected Society</i> Codruț SĂVULESCU , Huawei, <i>Romania</i>
11⁵⁵–12⁰⁵	<i>MarcTel SIT – Brief Company Presentation</i> Călin PANTEA , MarcTel, <i>Romania</i>
12⁰⁵–12¹⁵	<i>In-Building mobile infrastructure developments</i> Zsolt PANTLIK , Romkatel, <i>Romania</i>
12¹⁵–13⁰⁰	Sponsor Presentations

09 ⁰⁰ –13 ⁰⁰	Exhibition Room <i>Salonul Fondatorilor</i>
13 ⁰⁰ –14 ³⁰	Lunch
13 ⁰⁰ –14 ³⁰	Coffee Break Room <i>Sala Gotică</i>
14 ³⁰ –20 ⁰⁰	Exhibition Room <i>Sala Gotică</i>
14 ³⁰ –16 ³⁰	Parallel Sessions and Workshop
16 ³⁰ –17 ⁰⁰	Coffee Break Room <i>Salonul Graficii</i> , Room <i>Sala Rondă</i>
17 ⁰⁰ –19 ⁰⁰	Special and Parallel Sessions
19 ⁰⁰ –22 ⁰⁰	Official Dinner Room <i>Sala Bizantină</i>

Friday, June 10th, 2016

08 ³⁰ –09 ³⁰	Invited Papers Session 2 Room 3 (<i>Sala de Spectacole</i>) Chair Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i>
08 ³⁰ –09 ⁰⁰	<i>Multiple Time Series Fisher Periodicity Test for the Detection of the Distributed New Shrew Attacks</i> Paul COTAE , University of the District of Columbia, <i>United States</i>
09 ⁰⁰ –09 ³⁰	<i>Dealing with QoE and Power Consumption in Video Distribution Networks</i> Adrian POPESCU , Blekinge Institute of Technology, <i>Sweden</i>
09 ³⁰ –10 ⁰⁰	Coffee Break Room <i>Sala Gotică</i>
08 ³⁰ –14 ³⁰	Exhibition Room <i>Sala Gotică</i>
10 ⁰⁰ –12 ⁰⁰	Special and Parallel Sessions
12 ⁰⁰ –12 ³⁰	Coffee Break Room <i>Sala Gotică</i>
12 ³⁰ –14 ⁰⁰	Parallel Sessions
14 ¹⁵ –14 ³⁰	Closing Session, Best Student Paper and Diploma of Appreciation Awards Room 3 (<i>Sala de Spectacole</i>)

Special, Parallel Sessions and Workshop Schedule

SIGNAL PROCESSING		
Thursday, June 9th, 2016		
14³⁰–16³⁰, Room 1 (Sala Alba Iulia)		
Chairs:		
Alexandru ȘERBĂNESCU Military Technical Academy, Romania		
Ștefan Adrian TOMA Military Technical Academy, Romania		
14³⁰	Doru Florin CHIPER Gheorghe Asachi Technical University of Iași, Romania	<i>A New VLSI Algorithm for a High-Throughput Implementation of Type IV DCT</i>
14⁵⁰	Lucian STANCIU Valentin STANCIU Cristian Lucian STANCIU Politehnica University of Bucharest, Romania	<i>Grouped B-Spline Windows for the Design of Modulated Filter Banks</i>
15¹⁰	Cristian Lucian STANCIU Cristian ANGHEL Constantin PALEOLOGU Silviu CIOCHINĂ Politehnica University of Bucharest, Romania Jacob BENESTY INRS-EMT University of Quebec Montreal, Canada	<i>On the Numerical Properties of an Optimized NLMS Algorithm</i>
15³⁰	Felix ALBU Valahia University of Târgoviște, Romania Jianming LIU Steven L. GRANT Missouri University of Science and Technology, United States	<i>A Fast Filtering Block-Sparse Proportionate Affine Projection Sign Algorithm</i>
15⁵⁰	Corina NAFORNIȚĂ Politehnica University of Timișoara, Romania James D. B. NELSON University College London, UK Alexandru ISAR Politehnica University of Timișoara, Romania	<i>Performance Analysis of SAR Image Denoising Using Scaling Exponent Estimator</i>

NATURAL LANGUAGE AND SPEECH PROCESSING

Friday, June 10th, 2016
12³⁰–14⁰⁰, Room 4 (*Sala de Cinema*)

Chairs:

Corneliu BURILEANU
Politehnica University of Bucharest, *Romania*

Adriana VLAD
Politehnica University of Bucharest, *Romania*

12 ³⁰	Victoria BOBICEV Technical University of Moldova, <i>Moldova</i>	<i>Text Classification: The Case of Multiple Labels</i>
12 ⁵⁰	Bogdan HANU Adriana VLAD Adrian MITREA Roxana DRAGOMIR Politehnica University of Bucharest, <i>Romania</i>	<i>An Analysis of Common Word Digrams in Different Literary Romanian Corpora</i>
13 ¹⁰	Horia Nicolai TEODORESCU Romanian Academy, <i>Romania</i> Navanath SAHARIA Assam Kaziranga University, <i>India</i>	<i>A Semantic Analyzer for Detecting Attitudes on SNs</i>
13 ³⁰	Ioana Alina BĂNICĂ Horia CUCU Andi BUZO Dragoş BURILEANU Corneliu BURILEANU Politehnica University of Bucharest, <i>Romania</i>	<i>Automatic Methods for Infant Cry Classification</i>

IMAGE PROCESSING

Friday, June 10th, 2016
10⁰⁰–12⁰⁰, Room 5 (Sala Oglinzilor)

Chairs:

Iulian Constantin VIZITIU
Military Technical Academy, Romania

Constantin VERTAN
Politehnica University of Bucharest, Romania

10⁰⁰	Dorel AIORDĂCHIOAIE Anisia CULEA-FLORESCU Dunărea de Jos University of Galați, Romania	<i>On the Fusion of the Airborne Ultrasonic Images with Adaptive Computation of the Weights</i>
10²⁰	Șerban Vasile CARATA Victor Emil NEAGOE Politehnica University of Bucharest, Romania	<i>A Pulse-Coupled Neural Network Approach for Image Segmentation and Its Pattern Recognition Application</i>
10⁴⁰	Mihai Sorin BADEA Constantin VERTAN Corneliu FLOREA Laura Maria FLOREA Politehnica University of Bucharest, Romania Silviu BĂDOIU Carol Davila University of Medicine and Pharmacy, Romania	<i>Automatic Burn Area Identification in Color Images</i>
11⁰⁰	Elena Cătălina NEGHINĂ Lucian Blaga University of Sibiu, Romania Marta ZAMFIR Alina SULTANA Elena OVREIU Mihai CIUC Politehnica University of Bucharest, Romania	<i>Automatic Detection of Hemangiomas Using Unsupervised Segmentation of Regions of Interest</i>
11²⁰	Laura Maria FLOREA Corneliu FLOREA Mihai Sorin BADEA Politehnica University of Bucharest, Romania	<i>Recognizing Surreal Compositions in Digitized Paintings</i>
11⁴⁰	Alexandru Emilian ȘUȘU Politehnica University of Bucharest, Romania Valeriu CODREANU SURFsara, Netherlands Georgios EVANGELIDIS Inria Grenoble Rhône-Alpes, France Lucian PETRICĂ Politehnica University of Bucharest, Romania	<i>Efficient Implementation of a Video Change Detection Algorithm</i>

COMPUTATIONAL INTELLIGENCE

Thursday, June 9th, 2016
14³⁰–16³⁰, Room 5 (Sala Oglinzilor)

Chairs:

Horia Nicolai TEODORESCU
Romanian Academy, Romania

Victor Emil NEAGOE
Politehnica University of Bucharest, Romania

14 ³⁰	Mihai Lică PURA Luciana MOROGAN Military Technical Academy, Romania Didier BUCHS University of Geneva, Switzerland	<i>Generation of the Path to Counter-Examples by Backward State Space Traversal in Symbolic Model Checking Based on Term Rewriting</i>
14 ⁵⁰	Alessandro BAY Politehnica of Torino, Italy Skjalg LEPSOY Joint Open Lab Visible, Italy Enrico MAGLI Politehnica of Torino, Italy	<i>Stable Limit Cycles in Recurrent Neural Networks</i>
15 ¹⁰	Horia Nicolai TEODORESCU Romanian Academy, Romania Arnab MITRA Adamas Institute of Technology, India	<i>On the Independence of Cycles Produced with Uniform and Heterogeneous ELCAs</i>
15 ³⁰	Ionuț Bogdan BRÂNDUȘOIU Gavril TODERIAN Horia BELEIU Technical University of Cluj-Napoca, Romania	<i>Methods for Churn Prediction in the Pre-Paid Mobile Telecommunication Industry</i>
15 ⁵⁰	Victor Emil NEAGOE Politehnica University of Bucharest, Romania Elena Cătălina NEGHINĂ Lucian Blaga University of Sibiu, Romania	<i>Feature Selection with Ant Colony Optimization and Its Applications for Pattern Recognition in Space Imagery</i>
16 ¹⁰	Radu DOGARU Ioana DOGARU Politehnica University of Bucharest, Romania	<i>An Efficient Local Receptive Field Feature Extractor for Handwriting Recognition</i>

ANTENNAS AND PROPAGATION

Friday, June 10th, 2016
10⁰⁰–12⁰⁰, Room 3 (Sala de Spectacole)

Chairs:

Piet VAN GENDEREN
 Delft University of Technology, *Netherlands*
Remus CACOVEANU
 Politehnica University of Bucharest, *Romania*

10⁰⁰	<p>Mădălina Varvara MONI Military Technical Academy, <i>Romania</i> Gabriel BANCIU National Institute of Materials Physics, <i>Romania</i> Marius Gabriel ȚURCAN Leontin TUȚĂ Ionuț Valentin GRECU Military Technical Academy, <i>Romania</i></p>	<p><i>The Influence of the Dielectric Constant in Dielectric Resonator Antennas</i></p>
10²⁰	<p>Marius Gabriel ȚURCAN Mădălina Varvara MONI Military Technical Academy, <i>Romania</i> Gabriel BANCIU National Institute of Materials Physics, <i>Romania</i></p>	<p><i>Studies of Aperture-coupled Rectangular Dielectric Resonator Antenna Arrays</i></p>
10⁴⁰	<p>Florin ENACHE Florin Gabriel POPESCU Daniel Nicușor DEPĂRĂȚEANU Military Technical Academy, <i>Romania</i> Andrei ENACHE Politehnica University of Bucharest, <i>Romania</i> Teofil Cristian OROIAN Military Technical Academy, <i>Romania</i></p>	<p><i>Multi-Criteria Optimization of Non-Uniform Linear Antenna Array Using Genetic Algorithms</i></p>
11⁰⁰	<p>Daniel Nicușor DEPĂRĂȚEANU Teofil Cristian OROIAN Florin ENACHE Military Technical Academy, <i>Romania</i></p>	<p><i>Side Lobes Level Reduction in Planar Array Antenna Using Two-Dimensional Window Functions</i></p>
11²⁰	<p>Leontin TUȚĂ Ioan NICOLAÈSCU Military Technical Academy, <i>Romania</i></p>	<p><i>An Adaptive Detection and Beamforming Algorithm for a Variable Number of Signals</i></p>
11⁴⁰	<p>Aldo DE SABATA Andrei SILAGHI Politehnica University of Timișoara, <i>Romania</i> Ladislau MATEKOVITS Ildiko PETER Politehnica of Torino, <i>Italy</i></p>	<p><i>Anisotropic Dielectric Devised by Metamaterials-related Technique</i></p>

COMMUNICATION NETWORKS AND SYSTEMS 1

Thursday, June 9th, 2016
14³⁰–16³⁰, Room 2 (Sala Sf. Gheorghe)

Chairs:

Eugen BORCOCI
Politehnica University of Bucharest, Romania
Șerban Georgică OBREJA
Politehnica University of Bucharest, Romania

14 ³⁰	Sorin ZOICAN Marius VOCHIN Politehnica University of Bucharest, Romania	<i>Computing System and Network Architectures in High Frequency Trading Financial Applications</i>
14 ⁵⁰	Valentin STANCIU Lucian STANCIU Mihnea UDREA Politehnica University of Bucharest, Romania	<i>Improving Spectral Detection for Cognitive Radio Using Grouped B-Spline Windows</i>
15 ¹⁰	Marius VOCHIN Eugen BORCOCI Șerban Georgică OBREJA Politehnica University of Bucharest, Romania Jordi Mongay BATALLA National Institute of Telecommunications, Poland Daniel NEGRU University of Bordeaux, France	<i>Performance Analysis of an Adaptive Media Content Streaming System</i>
15 ³⁰	Sorin ZAMFIR Titus BĂLAN Florin SANDU Cosmin COSTACHE Transilvania University of Brașov, Romania	<i>Solutions for Deep Packet Inspection in Industrial Communications</i>
15 ⁵⁰	Titus BĂLAN Sorin ZAMFIR Dan ROBU Florin SANDU Transilvania University of Brașov, Romania	<i>Contributions to Content-based Software Defined Networks</i>
16 ¹⁰	Zhao PENGFEI He DONGZHI Beijing University of Technology, China	<i>Searching in Navigable Small-World Network</i>

COMMUNICATION NETWORKS AND SYSTEMS 2

Thursday, June 9th, 2016
17⁰⁰–19⁰⁰, Room 2 (Sala Sf. Gheorghe)

Chairs:

Sorin ZOICAN
Politehnica University of Bucharest, Romania
Ion MARGHESCU
Politehnica University of Bucharest, Romania

17 ⁰⁰	<p>Mădălina OPROIU Politehnica University of Bucharest, Romania Vlad BOLDAN Orange, Romania Ion MARGHESCU Politehnica University of Bucharest, Romania</p>	<p><i>Effects of Using Carrier Aggregation with Three Component Carriers in a Mobile Operator's Network</i></p>
17 ²⁰	<p>Alexandru STANCU Alexandru VULPE George SUCIU Eduard Cristian POPOVICI Politehnica University of Bucharest, Romania</p>	<p><i>Comparison between Several Open Source Network Configuration Protocol Server Implementations</i></p>
17 ⁴⁰	<p>Diana Getuța OANCEA Mihai Lică PURA Luciana MOROGAN Military Technical Academy, Romania</p>	<p><i>Using Gamma Formalism for Model-based Testing for the Routing Protocols for Mobile Ad Hoc Networks</i></p>
18 ⁰⁰	<p>Victor Nicolae PETRESCU Petrică CIOTÎRNAE Cristian Iulian RÎNCU Alexandru ALOMAN Mihai NICHITA Military Technical Academy, Romania</p>	<p><i>Performance Evaluation of the Integrated Platforms Using VoIP Signaling Protocols Analysis</i></p>
18 ²⁰	<p>Elena Iulia DOBRE Alexandru MARȚIAN Călin VLĂDEANU Politehnica University of Bucharest, Romania</p>	<p><i>USRP-based Experimental Platform for Energy Detection in Cognitive Radio Systems</i></p>

WIRELESS COMMUNICATIONS 1

Thursday, June 9th, 2016
14³⁰–16³⁰, Room 4 (Sala de Cinema)

Chairs:

Ion BĂNICĂ
Politehnica University of Bucharest, Romania
Silviu CIOCHINĂ
Politehnica University of Bucharest, Romania

14 ³⁰	<p>Ionel PETRUȚ Marius Emil OTEȘTEANU Cornel BALINT Georgeta BUDURA Politehnica University of Timișoara, Romania</p>	<p><i>On the Uplink Performance in LTE Heterogeneous Network</i></p>
14 ⁵⁰	<p>Robert LUCA Petrică CIOTÎRNAE Military Technical Academy, Romania Victor GREU Lumina University of South-East Europe, Romania</p>	<p><i>Evaluation and Improvement of WiMAX Real Throughput at Application Level Using Experimental Study Analysis and Resulted Optimization Rules</i></p>
15 ¹⁰	<p>Corneliu Eugen STERIAN Ion BĂNICĂ Politehnica University of Bucharest, Romania</p>	<p><i>Towards Designing Super Golden Space-Time Trellis Codes for High Data Rate Mobile Communications</i></p>
15 ³⁰	<p>Victor Florin CRĂȘMARIU Marius Octavian ARVINTE Andrei Alexandru ENESCU NXP Semiconductors, Romania Silviu CIOCHINĂ Politehnica University of Bucharest, Romania</p>	<p><i>Block-Diagonalization Applied in Multi-User Massive MIMO</i></p>
15 ⁵⁰	<p>Ioana MARCU Carmen VOICU Răzvan Eusebiu CRĂCIUNESCU Simona Viorica HALUNGA Politehnica University of Bucharest, Romania</p>	<p><i>LDPC Performances in Multi-Carrier Systems</i></p>
16 ¹⁰	<p>Mădălina BERCEANU Carmen VOICU Simona Viorica HALUNGA Politehnica University of Bucharest, Romania</p>	<p><i>Performance Analysis of a Large MIMO-CDMA System When Image Transmission Is Involved</i></p>

WIRELESS COMMUNICATIONS 2

Thursday, June 9th, 2016
17⁰⁰–19⁰⁰, Room 4 (Sala de Cinema)

Chairs:

Vasile BOTA
Technical University of Cluj-Napoca, Romania
Florin Gabriel POPESCU
Military Technical Academy, Romania

17 ⁰⁰	Agota ANTAL Vasile BOTA Technical University of Cluj-Napoca, Romania	<i>On the Performance of Hybrid-ARQ Algorithms on Rayleigh-Faded Wireless Channels</i>
17 ²⁰	Vasile BOTA Mihaly VARGA Technical University of Cluj-Napoca, Romania	<i>On the BER and Spectral Efficiency Performances of Coded QAM Configurations that Map Non-Coded Bits</i>
17 ⁴⁰	Ionuț Valentin GRECU Military Technical Academy, Romania Mircea NICOLAESCU Synopsys, France	<i>Automatic Propagation Model Tuning Process in TETRA Networks</i>
18 ⁰⁰	Cristian Liviu LECA Ioan NICOLAESCU Cristian Iulian RÎNCU Florin Gabriel POPESCU Military Technical Academy, Romania	<i>Determining Optimum Base Stations Configuration for ToA Localization Inside Cellular Networks</i>
18 ²⁰	Valentin Alexandru VLĂDUȚĂ Constantin GRUMĂZESCU Ion BICA Victor Valeriu PATRICIU Military Technical Academy, Romania	<i>Energy Considerations for Data Gathering Protocol in Wireless Sensor Networks Using Unmanned Aerial Vehicles</i>

INTERNET TECHNOLOGIES

Friday, June 10th, 2016
10⁰⁰–12⁰⁰, Room 2 (Sala Sf. Gheorghe)

Chairs:

Dragoş ILIE

Blekinge Institute of Technology, Sweden

Eduard Cristian POPOVICI

Politehnica University of Bucharest, Romania

10 ⁰⁰	<p>Eugeniu SEMENCIUC Andra Elena Iulia PĂSTRĂV Tudor PALADE Emanuel PUŞCHIŢĂ Technical University of Cluj-Napoca, Romania</p>	<p><i>Performance Evaluation of a Cloud-based QoS Support Mechanism</i></p>
10 ²⁰	<p>Yang GUO Yong YAO Guohua BAI Blekinge Institute of Technology, Sweden</p>	<p><i>On Enhancement of Inter-Activity for Knowledge Sharing in eHealth</i></p>
10 ⁴⁰	<p>Laurenţiu Alexandru DUMITRU Sergiu EFTIMIE Violeta OPRIŞ Ciprian RĂCUCIU Military Technical Academy, Romania Marius Iulian MIHĂILESCU Lumina University of South-East Europe, Romania Ştefania Loredana NIŢĂ Institute for Computers, Romania</p>	<p><i>A Novel Architecture for Authenticating Scalable Resources in Hybrid Cloud</i></p>
11 ⁰⁰	<p>Dragoş ILIE Vishnubhotla Venkata Krishna SAI DATTA Blekinge Institute of Technology, Sweden</p>	<p><i>On Designing a Cost-Aware Virtual CDN for the Federated Cloud</i></p>
11 ²⁰	<p>Ştefan Ciprian ARSENI Maria MIŢOI Alexandru VULPE Politehnica University of Bucharest, Romania</p>	<p><i>Pass-IoT: A Platform for Studying Security, Privacy and Trust in IoT</i></p>
11 ⁴⁰	<p>Bogdan Cosmin CHIFOR Ion BICA Victor Valeriu PATRICIU Military Technical Academy, Romania</p>	<p><i>A Participatory Verification Security Scheme for the Internet of Things</i></p>

COMMUNICATION SECURITY

Friday, June 10th, 2016
10⁰⁰–12⁰⁰, Room 1 (Sala Alba Iulia)

Chairs:

Paul COTAE

University of the District of Columbia, *United States*

Victor CROITORU

Politehnica University of Bucharest, *Romania*

10 ⁰⁰	<p>Laura VEGH Liviu MICLEA Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>Secure and Efficient Communication in Cyber-Physical Systems through Cryptography and Complex Event Processing</i></p>
10 ²⁰	<p>Cosmin CONȚU Eduard Cristian POPOVICI Octavian FRATU Mădălina BERCEANU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Security Issues in Most Popular Content Management Systems</i></p>
10 ⁴⁰	<p>Radu LUPU Radu Alexandru BADEA Politehnica University of Bucharest, <i>Romania</i> Ion Cosmin MIHAI Alexandru Ioan Cuza Police Academy, <i>Romania</i></p>	<p><i>Agent-based IDMEF Alerting Infrastructure for Distributed Intrusion Detection and Prevention Systems: Design and Validation</i></p>
11 ⁰⁰	<p>Daniel GHEORGHICĂ Victor CROITORU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>A New Framework for Enhanced Measurable Cybersecurity in Computer Networks</i></p>
11 ²⁰	<p>Mihai TOGAN Military Technical Academy, <i>Romania</i></p>	<p><i>A FHE-based Evaluation for Searching on Encrypted Data</i></p>

NETWORK OPERATIONS AND MANAGEMENT

Friday, June 10th, 2016
12³⁰–14⁰⁰, Room 2 (Sala Sf. Gheorghe)

Chairs:

Adrian POPESCU
Blekinge Institute of Technology, Sweden
Virgil DOBROTĂ
Technical University of Cluj-Napoca, Romania

12 ³⁰	<p>Maria PĂDURARIU Bogdan ROȘCA Iustin Alexandru IVANCIU Eduard LUCHIAN Andrei Bogdan RUS Virgil DOBROTĂ Technical University of Cluj-Napoca, Romania</p>	<p><i>Automatic Control of an OpenFlow-based Network Using Lua Scripts and SPLAY</i></p>
12 ⁵⁰	<p>Octavian CATRINA Politehnica University of Bucharest, Romania</p>	<p><i>Multi-Criteria Server Selection for Over-the-Top Video Streaming</i></p>
13 ¹⁰	<p>Yong YAO Adrian POPESCU Blekinge Institute of Technology, Sweden</p>	<p><i>On Energy Consumption in Mobile Multimedia Networks with OpenFlow Switch</i></p>
13 ³⁰	<p>Radu Alexandru BADEA Șerban Georgică OBREJA Politehnica University of Bucharest, Romania</p>	<p><i>Distributed Analytics Technique for Monitoring Data</i></p>

**AFCEA – MILITARY COMMUNICATION
AND INFORMATION SYSTEMS**

Friday, June 10th, 2016
12³⁰–14⁰⁰, Room 1 (Sala Alba Iulia)

Chairs:

Liviu COȘEREANU
Military Equipment and Technologies Research Agency, *Romania*
Alexandru Cosmin GRIVEI
Military Technical Academy, *Romania*

12³⁰	<p>Constantin GRUMĂZESCU Valentin Alexandru VLĂDUȚĂ Georgiana SUBAȘU Military Technical Academy, <i>Romania</i></p>	<p><i>WSN Solutions for Communication Challenges in Military Live Simulation Environments</i></p>
12⁵⁰	<p>Cristina Maria CICĂ Lucian FILIPOAIA General Inspectorate of Romanian Border Police, <i>Romania</i></p>	<p><i>On the Next-Generation of the Broadband Network for a Sustainable Development of Border Security Systems</i></p>
13¹⁰	<p>Jan FARLIK Miroslav KRATKY Josef CASAR University of Defence, <i>Czech Republic</i></p>	<p><i>Detectability and Jamming of Small UAVs by Commercially Available Low-Cost Means</i></p>

VEHICULAR ELECTRONIC SYSTEMS

Friday, June 10th, 2016
12³⁰–14⁰⁰, Room 5 (*Sala Oglinzilor*)

Chairs:

Ion BOGDAN
Gheorghe Asachi Technical University of Iași, *Romania*
Cristian NEGRESCU
Politehnica University of Bucharest, *Romania*

12 ³⁰	<p>Marin MARINESCU Constantin Ovidiu ILIE Radu VILĂU Octavian ALEXA Daniela VOICU Military Technical Academy, <i>Romania</i></p>	<p><i>Malfunction Detection Using Spectral Analysis for Automotive Braking Systems</i></p>
12 ⁵⁰	<p>Silviu Andrei LAZĂR Carmen Elena ȘTEFAN Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Future Vehicular Networks: What Control Technologies?</i></p>
13 ¹⁰	<p>Radu Ovidiu DĂRLOȘAN Ion MARGHESCU Constantin Alexandru LICĂ Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Intra-Car Communications and Diagnosis Solutions</i></p>
13 ³⁰	<p>Constantin Alexandru LICĂ Radu Ovidiu DĂRLOȘAN Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Safety-Critical Applications for Vehicular Networks</i></p>

ELECTRONIC SYSTEMS DESIGN

Friday, June 10th, 2016
12³⁰–14⁰⁰, Room 3 (Sala de Spectacole)

Chairs:

Nicolae Dumitru ALEXANDRU
Gheorghe Asachi Technical University of Iași, *Romania*
Leontin TUȚĂ
Military Technical Academy, *Romania*

12³⁰	<p>Adrian POPA Telekom, <i>Romania</i></p> <p>Nicolae Dumitru ALEXANDRU Radu Gabriel BOZOMITU Gheorghe Asachi Technical University of Iași, <i>Romania</i></p>	<p><i>A 2-PPM CMOS Modulator for IR-UWB Signals</i></p>
12⁵⁰	<p>Florin Marian BÎRLEANU Bogdan Adrian ENACHE Magdalena ALEXANDRU University of Pitești, <i>Romania</i></p>	<p><i>First Steps towards Designing a Compact Language for the Description of Logic Circuits</i></p>
13¹⁰	<p>Sergiu ZAPOROJAN Vitalie SECRIERU Valerian DOROGAN Vasile MORARU Technical University of Moldova, <i>Moldova</i></p>	<p><i>Early Estimation of Gain/Loss in Quality in Designing the Embedded Systems</i></p>
13³⁰	<p>Adrian ABUNEI Ciprian Romeo COMȘA Ion BOGDAN Gheorghe Asachi Technical University of Iași, <i>Romania</i></p>	<p><i>Implementation of a Cost-Effective V2X Hardware and Software Platform</i></p>

**SPECIAL SESSION:
IMAGE INFORMATION MINING**

Thursday, June 9th, 2016
17⁰⁰–19⁰⁰, Room 3 (Sala de Spectacole)

Chairs:

Daniela FAUR
Politehnica University of Bucharest, Romania

Radu DOGARU
Politehnica University of Bucharest, Romania

17⁰⁰	Radu DOGARU Ioana DOGARU Politehnica University of Bucharest, Romania	<i>A Super Fast Vector Support Classifier Using Novelty Detection and No Synaptic Tuning</i>
17²⁰	Alexandru Cosmin GRIVEI Anamaria RĂDOI Corina VĂDUVA Politehnica University of Bucharest, Romania Mihai DATCU German Aerospace Center, Germany	<i>An Active-Learning Approach to the Query by Example Retrieval in Remote Sensing Images</i>
17⁴⁰	Radu Mihai COLIBAN Transilvania University of Braşov, Romania Anamaria RĂDOI Politehnica University of Bucharest, Romania Mihai IVANOVICI Transilvania University of Braşov, Romania	<i>A Color and Multispectral Fractal Model for Forest Region Identification in Satellite Images</i>
18⁰⁰	Alexandru Cosmin GRIVEI Politehnica University of Bucharest, Romania Ana Maria GHIMEŞ Military Technical Academy, Romania	<i>Modern Considerations for Data Mining and Big Data</i>
18²⁰	Andreea GRIPARIS Daniela FAUR Politehnica University of Bucharest, Romania Mihai DATCU German Aerospace Center, Germany	<i>A Dimensionality Reduction Approach to Support Visual Data Mining: Co-Ranking-based Evaluation</i>
18⁴⁰	Nicoleta ANGELESCU Henri George COANDĂ Ion CĂCIULĂ Cătălin DRĂGOI Felix ALBU Valahia University of Târgovişte, Romania	<i>SQL Query Optimization in Content-based Image Retrieval Systems</i>

**SPECIAL SESSION:
CHAOS AND INFORMATION
HIDING AND SECURITY**

Thursday, June 9th, 2016
17⁰⁰–19⁰⁰, Room 1 (Sala Alba Iulia)

Chairs:

Safwan EL ASSAD
University of Nantes, *France*
Adrian Viorel DIACONU
Lumina University of South-East Europe, *Romania*

17⁰⁰	<p>Mohammed Saeed ABU TAHA Safwan EL ASSAD Ons JALLOULI Audrey QUEUDET University of Nantes, <i>France</i> Olivier DEFORGES INSA/Rennes, <i>France</i></p>	<p><i>Design of a Pseudo-Chaotic Number Generator as a Random Number Generator</i></p>
17²⁰	<p>Nabil ABDOUN Safwan EL ASSAD Mohammed Saeed ABU TAHA University of Nantes, <i>France</i> Olivier DEFORGES INSA/Rennes, <i>France</i> Rima ASSAF Mohamad KHALIL Lebanese University, <i>Lebanon</i></p>	<p><i>Secure Hash Algorithm Based on Efficient Chaotic Neural Network</i></p>
17⁴⁰	<p>Adrian Viorel DIACONU Lumina University of South-East Europe, <i>Romania</i> Valeriu IONESCU Vasile Gabriel IANA University of Pitești, <i>Romania</i> Jose Manuel LOPEZ-GUEDE Basque Country University, <i>Spain</i></p>	<p><i>A New Bit-Level Permutation Image Encryption Algorithm</i></p>
18⁰⁰	<p>Alexandru VĂDUVA Adriana VLAD Bogdan BADEA Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Evaluating the Performance of a Test-Method for Statistical Independence Decision in the Context of Chaotic Signals</i></p>
18²⁰	<p>Gabriela MOGOS Escuela Superior Politécnica del Chimborazo, <i>Ecuador</i></p>	<p><i>Quantum Random Number Generator vs. Random Number Generator</i></p>

**SPECIAL SESSION:
COMPRESSIVE SENSING AND APPLICATIONS**

Friday, June 10th, 2016
10⁰⁰–12⁰⁰, Room 4 (Sala de Cinema)

Chairs:

Otmar LOFFELD
University of Siegen, *Germany*
Daniela COLȚUC
Politehnica University of Bucharest, *Romania*

10⁰⁰	<p>Monica FIRA Institute of Computer Science, Romanian Academy, Iași, <i>Romania</i></p> <p>Liviu GORAȘ Gheorghe Asachi Technical University of Iași, <i>Romania</i></p>	<p><i>On Compressed Sensing for EEG Signals – Validation with P300 Speller Paradigm</i></p>
10²⁰	<p>Matteo TESTA Enrico MAGLI Politehnica of Torino, <i>Italy</i></p>	<p><i>Compressive Classification Based on Autoregressive Features</i></p>
10⁴⁰	<p>Paul IROFTI Bogdan DUMITRESCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Regularized Algorithms for Dictionary Learning</i></p>
11⁰⁰	<p>Mihai Alexandru PETROVICI Cristian DAMIAN Politehnica University of Bucharest, <i>Romania</i></p> <p>Cristian UDREA Florin GAROI National Institute for Laser, Plasma and Radiation Physics, <i>Romania</i></p> <p>Daniela COLȚUC Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Single Pixel Camera with Compressive Sensing by Non-Uniform Sampling</i></p>
11²⁰	<p>Otmar LOFFELD Alexander SEEL Miguel Heredia CONDE University of Siegen, <i>Germany</i></p> <p>Ling WANG Nanjing University of Aeronautics and Astronautics, <i>China</i></p>	<p><i>Sparse CS Reconstruction by Nullspace-based L_1 Minimizing Kalman Filtering</i></p>
11⁴⁰	<p>Alexander SEEL Arman DAVTYAN Ullrich PIETSCH Otmar LOFFELD University of Siegen, <i>Germany</i></p>	<p><i>Norm-Minimized Scattering Data from Intensities</i></p>

**SPECIAL SESSION:
SENSORS AND SIGNAL PROCESSING
FOR SPACE APPLICATIONS**

Thursday, June 9th, 2016
17⁰⁰–19⁰⁰, Room 5 (Sala Oglinzilor)

Chairs:

Matthias Uwe PÄTZOLD
University of Agder Grimstad, Norway
Anca Andreea POPESCU
Politehnica University of Bucharest, Romania

17⁰⁰	<p>Alexandru Mihai CRIȘAN Alexandru MARȚIAN Remus CACOVEANU Daniela COLȚUC Politehnica University of Bucharest, Romania</p>	<p><i>Evaluation of Synchronization Techniques for Inter-Satellite Links</i></p>
17²⁰	<p>Adrian Florin PĂUN Alexandru RUSU-CASANDRA Politehnica University of Bucharest, Romania</p>	<p><i>Analysis of the Performance of an Acquisition Algorithm for Galileo E1 Signals</i></p>
17⁴⁰	<p>Andrei ANGHEL Remus CACOVEANU Anca Andreea POPESCU Politehnica University of Bucharest, Romania Adrian MOLDOVAN Terrasigna SRL, Romania</p>	<p><i>Dual-Band Bistatic SAR System with Satellite Emitter of Opportunity and Ground-based Receiver</i></p>
18⁰⁰	<p>Mădălin FRUNZETE Anca Andreea POPESCU Politehnica University of Bucharest, Romania</p>	<p><i>Information Channel Theory for Traffic Control</i></p>
18²⁰	<p>Dragoș Ioan SĂCĂLEANU Lucian Andrei PERIȘOARĂ Lucian ȘUCU Rodica STOIAN Politehnica University of Bucharest, Romania</p>	<p><i>Practical Implementation of a Wireless Sensor Network for a Virtual-MIMO Transmission Scenario</i></p>
18⁴⁰	<p>Danijel ŠIPOŠ Dušan GLEICH Univeristy of Maribor, Slovenia</p>	<p><i>SAR Data Time Series Analysis Using Compressive Covariance Sensing</i></p>

WORKSHOP: ELECTROMAGNETIC COMPATIBILITY

Thursday, June 9th, 2016
14³⁰–16³⁰, Room 3 (Sala de Spectacole)

Chairs:

George MIHAI
National Authority for Management and Regulation in Communications, *Romania*
Ioan NICOLAESCU
Military Technical Academy, *Romania*

14³⁰	<p>George MIHAI Angel Marian ARON Valentin HARALAMBIE National Authority for Management and Regulation in Communications, <i>Romania</i> Annamaria PALJANOS Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>A Study of Mobile Phone SAR Levels Modification in Different Experimental Configurations under 2G and 3G Communication Standards</i></p>
14⁵⁰	<p>Vlad GHILE Răzvan BARTUSICA Valerică BÎNDAR Mircea POPESCU Politehnica University of Bucharest, <i>Romania</i> Alexandru ALOMAN Military Technical Academy, <i>Romania</i></p>	<p><i>The Influence of Electromagnetic Interference over Satellite Communication</i></p>
15¹⁰	<p>Mumtaz YILMAZ Adnan Menderes University, <i>Turkey</i> Damla GÜRKAN-KUNTALP Akan FIDAN Dokuz Eylül University, <i>Turkey</i></p>	<p><i>Determination of Spectrum Utilization Profiles for 30 MHz–3 GHz Frequency Band</i></p>
15³⁰	<p>Georgiana ROȘU Nicușor DRUȚĂ Military Technical Academy, <i>Romania</i> Octavian BALTAG University of Medicine and Pharmacy, Iași, <i>Romania</i></p>	<p><i>The Study of the Microwave Shielding Properties of Various Screen Configurations</i></p>
15⁵⁰	<p>Flaviu POP Călin MUNTEANU Adina RĂCĂȘAN Claudia PĂCURAR Silvan PRUȘU Technical University of Cluj-Napoca, <i>Romania</i> George MIHAI ANCOM, <i>Romania</i></p>	<p><i>Evaluation of Conducted Disturbances from LED Lamps According to EN 55015</i></p>
16¹⁰	<p>Mircea POPESCU Valerică BÎNDAR The Special Telecommunications Service, <i>Romania</i> Răzvan Eusebiu CRĂCIUNESCU Octavian FRATU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Estimate of Minimum Attenuation Level for a TEMPEST Shielded Enclosure</i></p>
16³⁰	<p>George MIHAI National Authority for Management and Regulation in Communications, <i>Romania</i></p>	<p><i>Electromagnetic Compatibility Measurements Laboratory</i></p>

Thursday June 9th, 2016 14 ³⁰ –16 ³⁰	Thursday June 9th, 2016 17 ⁰⁰ –19 ⁰⁰	Friday June 10th, 2016 10 ⁰⁰ –12 ⁰⁰	Friday June 10th, 2016 12 ³⁰ –14 ⁰⁰
Signal Processing	<i>Special Session</i> Chaos and Information Hiding and Security	Communications Security	AFCEA – Military Communication and Information Systems
Communication Networks and Systems 1	Communication Networks and Systems 2	Internet Technologies	Network Operations and Management
<i>Workshop</i> Electromagnetic Compatibility	<i>Special Session</i> Image Information Mining	Antennas and Propagation	Electronic Systems Design
Wireless Communications 1	Wireless Communications 2	<i>Special Session</i> Compressive Sensing and Applications	Natural Language and Speech Processing
Computational Intelligence	<i>Special Session</i> Sensors and Signal Processing for Space Applications	Image Processing	Vehicular Electronic Systems
Room 1 (Sala Alba Iulia)	Room 2 (Sala Sf. Gheorghe)	Room 3 (Sala de Spectacole)	Room 4 (Sala de Cinema)
Room 5 (Sala Oglinzilor)			

Room	Thursday June 9 th , 2016	Friday June 10 th , 2016
<i>Sala Protocol</i>	08 ⁰⁰ –19 ⁰⁰ Conference Secretariat	08 ⁰⁰ –14 ³⁰ Conference Secretariat
<i>Sala de Marmură</i>	09 ⁰⁰ –13 ⁰⁰ Opening Session	
<i>Sala de Spectacole</i>		08 ³⁰ –09 ³⁰ Invited Papers Session 2 14 ¹⁵ –14 ³⁰ Closing Session, Best Student Paper and Diploma of Appreciation Awards
<i>Salonul Fondatorilor</i>	09 ⁰⁰ –13 ⁰⁰ Exhibition	
<i>Sala Gotică</i>	13 ⁰⁰ –19 ⁰⁰ Exhibition	08 ³⁰ –14 ³⁰ Exhibition
<i>Sala Bizantină</i>	13 ⁰⁰ –14 ³⁰ Coffee Break	09 ³⁰ –10 ⁰⁰ Coffee Break
<i>Salonul Graficii Sala Rondă</i>	19 ⁰⁰ –22 ⁰⁰ Official Diner	12 ⁰⁰ –12 ³⁰ Coffee Break
	16 ³⁰ –17 ⁰⁰ Coffee Break	

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