



The 12th International Conference on

COMMUNICATIONS 2018

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**Politehnica University of Bucharest
Ferdinand I Military Technical Academy**

Co-organised by

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Under the aegis of

**IEEE Romania Section
Romanian Academy of Technical Sciences**

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Răzvan ROMAN

Protection and Guard Service, *Romania*

Bogdan IONESCU

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Geert DE CUBBER

Royal Military Academy, *Belgium*

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The Conference Place

Politehnica University of Bucharest
Central Library

313 Splaiul Independenței Bd.,
District 6, 060042 Bucharest

Universitatea Politehnica București
Biblioteca Centrală

Splaiul Independenței, 313,
București 060042

Coordinates

Latitude	Longitude
44.441004	26.05165



Useful Phone Numbers

112

Emergency call

+4 0741 117 790

Conference Secretariat

Conference Program

Thursday, June 14th, 2018	
08⁰⁰–09⁰⁰	Participants Registration Ground Floor, <i>Central Library</i> , Politehnica University of Bucharest
09⁰⁰–13⁰⁰	Opening Session, Welcome Speeches, Invited Papers <i>Radu Voinea Amphitheater AN010</i> , Rectorate Building, Politehnica University of Bucharest
09⁰⁰–09⁰⁵	Conference Chairs Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i> Ioan NICOLAESCU , Ferdinand I Military Technical Academy, <i>Romania</i>
09⁰⁵–09¹⁰	Mihnea COSTOIU , Rector of the Politehnica University of Bucharest, <i>Romania</i>
09¹⁰–09¹⁵	Iulian Constantin VIZITIU , Rector of the Ferdinand I Military Technical Academy, <i>Romania</i>
09¹⁵–09⁴⁰	Participants' Welcome Speech
09⁴⁰–10⁴⁰	Invited Papers Session 1 <i>Radu Voinea Amphitheater AN010</i> , Rectorate Building Chairs Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i> Ioan NICOLAESCU , Ferdinand I Military Technical Academy, <i>Romania</i>
09⁴⁰–10¹⁰	<i>Managing the OTT Traffic in NFV Environment</i> Adrian POPESCU , Blekinge Institute of Technology, <i>Sweden</i> Mohammad Asad Rehman CHAUDHRY , Soptimizer, <i>Canada</i>
10¹⁰–10⁴⁰	<i>On a Game Theoretic Approach to Detect the Low Rate of Denial of Service attacks</i> Paul COTAE , University of the District of Columbia, <i>United States</i> Rashed RABIE , University of the District of Columbia, <i>United States</i>
10⁴⁰–10⁴⁵	Group Photo
10⁴⁵–11¹⁰	Break
11¹⁰–13⁰⁰	Sponsor Presentations <i>Radu Voinea Amphitheater AN010</i> , Rectorate Building Chairs Petrică CIOTÎRNAE , Ferdinand I Military Technical Academy, <i>Romania</i> Amelia CIOBANU , Politehnica University of Bucharest, <i>Romania</i>
11¹⁰–13⁰⁰	Sponsor Presentations
09⁰⁰–13⁰⁰	Exhibition Ground Floor Hall, <i>Central Library</i> , Politehnica University of Bucharest
13⁰⁰–14³⁰	Lunch
14³⁰–19⁰⁰	Exhibition <i>Ground Floor Hall, Central Library</i> , Politehnica University of Bucharest
14³⁰–16³⁰	Parallel Sessions
16³⁰–17⁰⁰	Coffee Break 4 th Floor Hall, <i>Central Library</i> , Politehnica University of Bucharest
17⁰⁰–19⁰⁰	Parallel Sessions
19⁰⁰–22⁰⁰	Official Dinner 4 th Floor Hall, <i>Central Library</i> , Politehnica University of Bucharest

Friday, June 15th, 2018	
08³⁰–09³⁰	<p align="center">Invited Papers Session 2 Room 4 (<i>Sala 3.1</i>)</p> <p align="center"><u>Chairs</u></p> <p align="center">Sorin ZOICAN, Politehnica University of Bucharest, <i>Romania</i> Alexandru ȘERBĂNESCU, Ferdinand I Military Technical Academy, <i>Romania</i></p>
08³⁰–09⁰⁰	<p align="center"><i>Transmitter Adaptation in Cognitive Radio Systems and Applications to Cognitive Radar</i></p> <p align="center">Dimitrie POPESCU, Old Dominion University, <i>United States</i> Otilia POPESCU, Old Dominion University, <i>United States</i></p>
09⁰⁰–09³⁰	<p align="center"><i>Internet of Profiling – Traffic, Users and Applications</i></p> <p align="center">Bogdan GHIȚĂ, Plymouth University, <i>United Kingdom</i> Taimur BAKHSHI, National University of Computer & Emerging Sciences, <i>Pakistan</i></p>
09⁰⁰–17⁴⁵	<p align="center">Workshop <i>Conference Room 3, Research Center CAMPUS</i></p>
09³⁰–10⁰⁰	<p align="center">Coffee Break <i>4th Floor Hall, Central Library, Politehnica University of Bucharest</i></p>
08³⁰–12³⁰	<p align="center">Exhibition <i>Ground Floor Hall, Central Library, Politehnica University of Bucharest</i></p>
10⁰⁰–12⁰⁰	<p align="center">Special and Parallel Sessions</p>
12⁰⁰–12¹⁵	<p align="center">Coffee Break <i>4th Floor Hall, Central Library, Politehnica University of Bucharest</i></p>
12¹⁵–12³⁰	<p align="center">Closing Session, Best Student Paper and Diploma of Appreciation Awards <i>Room 4 (Sala 3.1)</i></p>

Special, Parallel Sessions and Workshop Schedule

SIGNAL PROCESSING 1		
<p>Thursday, June 14th, 2018 14³⁰–16³⁰, Room 1 (Sala 2.1)</p> <p>Chairs: Alexandru ȘERBĂNESCU Ferdinand I Military Technical Academy, Romania Ion BĂNICĂ Politehnica University of Bucharest, Romania Silviu CIOCHINĂ Politehnica University of Bucharest, Romania</p>		
14³⁰	<p>Lucian STANCIU Valentin STANCIU Radu Alexandru BADEA Politehnica University of Bucharest, Romania</p>	<p><i>B-Spline Functions for the Design of Crossover Digital Filters</i></p>
14⁵⁰	<p>Laura Maria DOGARIU Silviu CIOCHINĂ Constantin PALEOLOGU Politehnica University of Bucharest, Romania</p>	<p><i>On the Properties of the System Mismatch Covariance Matrix in the LMS Adaptive Algorithm</i></p>
15¹⁰	<p>Felix ALBU Valahia University of Târgoviște, Romania Linh TRAN Sven NORDHOLM Curtin University, Australia</p>	<p><i>The Hybrid Simplified Kalman Filter for Adaptive Feedback Cancellation</i></p>
15³⁰	<p>Mahmood Jalal Ahmad AL SAMMARRAIE Alexandru MĂRȚIAN Călin VLĂDEANU Politehnica University of Bucharest, Romania</p>	<p><i>Adaptive IED Spectrum Sensing Algorithm for Different Duty Cycle Values</i></p>
15⁵⁰	<p>Georgiana ROȘU Angela DIGULESCU Ferdinand I Military Technical Academy, Romania Ion CANDEL GIPSA Lab, France Alexandru ȘERBĂNESCU Ferdinand I Military Technical Academy, Romania Anisia CULEA-FLORESCU Dunărea de Jos University of Galați, Romania Miuța Carmina RAU Octavian BALTAG University of Medicine and Pharmacy, Iași, Romania</p>	<p><i>The MCG Filtering based on the Phase Diagram Representation Domain</i></p>

SIGNAL PROCESSING 2

Thursday, June 14th, 2018
17⁰⁰–19⁰⁰, Room 1 (Sala 2.1)

Chairs:

Nicolae Dumitru ALEXANDRU
Gheorghe Asachi Technical University of Iași, Romania

Lucian STANCIU
Politehnica University of Bucharest, Romania

Constantin PALEOLOGU
Politehnica University of Bucharest, Romania

17 ⁰⁰	Pogula RAKESH T. Kishore KUMAR NIT Warangal, India Felix ALBU Valahia University of Târgoviște, Romania	<i>Complex Domain Adaptive System Identification using Sparse Affine Projection Normalized Correlation Algorithms under Impulsive Noises</i>
17 ²⁰	Anamaria RĂDOI Corneliu BURILEANU Politehnica University of Bucharest, Romania	<i>Infant Cry Classification using Compression- based Similarity Metric</i>
17 ⁴⁰	Nicolae Dumitru ALEXANDRU Gheorghe Asachi Technical University of Iași, Romania Alexandra Ligia BĂLAN "Ștefan cel Mare" University of Suceava, Romania	<i>Design and Optimization of Modified K-exponential Filter</i>
18 ⁰⁰	Elena OLTEANU Victor SUCIU Svetlana SEGĂRCEANU Ioana PETRE Andrei SCHEIANU BEIA Consult International, Romania	<i>Forest Monitoring System through Sound Recognition</i>
18 ²⁰	Daniel BELEGA Politehnica University of Timișoara, Romania	<i>Determination of the Contribution of the Spectral Image Component on the Amplitude Estimator Provided by the Three-Point Interpolated DFT Algorithm</i>
18 ⁴⁰	Mihai BELU Amelia CIOBANU Politehnica University of Bucharest, Romania	<i>Improved Algorithm for Butt-Spliced Audio Edit Detection</i>

NATURAL LANGUAGE AND SPEECH PROCESSING

Thursday, June 14th, 2018

17⁰⁰–19⁰⁰, Room 3 (Sala 2.3)

Chairs:

Adriana VLAD

Politehnica University of Bucharest, Romania

Ștefan Adrian TOMA

Ferdinand I Military Technical Academy, Romania

17 ⁰⁰	<p>Marian CEAPARU Ștefan Adrian TOMA Ferdinand I Military Technical Academy, Romania</p> <p>Svetlana SEGĂRCEANU Beia Consult, Romania</p> <p>Inge GAVĂT Politehnica University of Bucharest, Romania</p>	<p><i>Voice-based User Interaction System for Call Centers, using a Small Vocabulary for Romanian</i></p>
17 ²⁰	<p>Bogdan HANU Adriana VLAD Adrian MITREA Politehnica University of Bucharest, Romania</p>	<p><i>Aspects Revealing the Orthography and Punctuation Impact in Printed Romanian: A Literary Corpus Based Study</i></p>
17 ⁴⁰	<p>Florin CURELARU Ferdinand I Military Technical Academy, Romania</p>	<p><i>Evaluation of the Standard i-vectors based Speaker Verification Systems on Limited Data</i></p>
18 ⁰⁰	<p>Petruț GOGĂLNICEANU King's College London, United Kingdom</p> <p>Horia Nicolai TEODORESCU Gh. Asachi Technical University of Iași, Romania</p>	<p><i>Polarity and Sentiment Analysis of Medical Transplant Literature</i></p>

IMAGE PROCESSING 1

Thursday, June 14th, 2018

14³⁰–16³⁰, Room 6 (Sala 4.1)

Chairs:

Horia Nicolai TEODORESCU

Romanian Academy, Romania

Victor Emil NEAGOE

Politehnica University of Bucharest, Romania

14 ³⁰	Sorin ZOICAN Marius VOCHIN Roxana ZOICAN Dan GALAȚCHI Politehnica University of Bucharest, Romania	<i>The Emotion Detection in Internet of Things using Blackfin Microcomputers Family and Visual Analytics Tools</i>
14 ⁵⁰	Cristian DAMIAN Daniela COLȚUC Politehnica University of Bucharest, Romania	<i>Measurement of non-circular PSFs in Single Pixel Cameras</i>
15 ¹⁰	Victor Emil NEAGOE Adrian Dumitru CIOTEC Politehnica University of Bucharest, Romania	<i>Supervised Change Detection for SAR Imagery based on Processing of a Low Size Training Data Set by an Ensemble of Self-Organizing Maps</i>
15 ³⁰	Carmen NADRAG Vlad POENARU George SUCIU BEIA Consult International, Romania	<i>Heart Rate Measurement Using Face Detection in Video</i>
15 ⁵⁰	Anamaria RĂDOI Politehnica University of Bucharest, Romania	<i>Semantic Segmentation of RGB-NIR Images with Error-Correcting Output Codes</i>

IMAGE PROCESSING 2

Thursday, June 14th, 2018
17⁰⁰–19⁰⁰, Room 6 (Sala 4.1)

Chairs:

Constantin VERTAN

Politehnica University of Bucharest, Romania

Alexandru Cosmin GRIVEI

Ferdinand I Military Technical Academy, Romania

17 ⁰⁰	Kenta IIDA Hitoshi KIYA Tokyo Metropolitan University, Japan	<i>Robust Image Identification for Double-Compressed JPEG Images</i>
17 ²⁰	Șerban Vasile CARATĂ Veta GHENESCU Marian GHENESCU Institute of Space Science, Romania Mihai CHINDEA Roxana Elena MIHĂESCU UTI Grup, Romania	<i>Salt and Pepper Noise Removal by Combining Genetic Algorithms - Neural Networks and Statistical Methods</i>
17 ⁴⁰	Corina NAFORNIȚĂ Alexandru ISAR Teodor DEHELEAN Politehnica University of Timișoara, Romania	<i>Multilook SAR Image Enhancement using the Dual Tree Complex Wavelet Transform</i>
18 ⁰⁰	Oana Mihaela VULTUR "Ștefan cel Mare" University of Suceava, Romania	<i>Performance Analysis of "Drive Me" – a Human Robot Interaction System</i>

COMMUNICATION THEORY

Friday, June 15th, 2018
10⁰⁰–12⁰⁰, Room 3 (Sala 2.3)

Chairs:

Paul COTAE
 University of the District of Columbia, *United States*
Victor CROITORU
 Politehnica University of Bucharest, *Romania*

10⁰⁰	<p>Sabin BELU Daniela COLȚUC Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>The Anatomy of a Quasi-Static Arithmetic Encoder</i></p>
10²⁰	<p>Răzvan ONICA Vasile BOTA Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>Carrier Frequency-offset Compensation by Inter-carrier Symbol Precoding at the Transmitter in OFDM Transmissions</i></p>
10⁴⁰	<p>Agota ANTAL Vasile BOTA Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>Performance Analysis of a HARQ Algorithm With Two-Hop Relaying</i></p>
11⁰⁰	<p>Angela DIGULESCU Ferdinand I Military Technical Academy, <i>Romania</i> Cornel IOANA GIPSA Lab, <i>France</i> Alexandru ȘERBĂNESCU Ferdinand I Military Technical Academy, <i>Romania</i> Ion CANDEL GIPSA Lab, <i>France</i></p>	<p><i>On the Recognitions Capabilities of Modulated Signals in Phase Diagram Domain</i></p>
11²⁰	<p>Răzvan Florentin TRIFAN Constantin PALEOLOGU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Non-linear Precoding Performance in Spatio-temporally Correlated MU-MIMO Channels</i></p>

COMPUTATIONAL INTELLIGENCE

Friday, June 15th, 2018
10⁰⁰–12⁰⁰, Room 5 (Sala 3.2)

Chairs:

Sorin ZOICAN

Politehnica University of Bucharest, *Romania*

Radu DOGARU

Politehnica University of Bucharest, *Romania*

10⁰⁰	<p>Radu DOGARU Ioana DOGARU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Optimized Extreme Learning Machine for Big Data Applications using Python</i></p>
10²⁰	<p>Radu DOGARU Ioana DOGARU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Optimized Super Fast Support Vector Classifiers using Python and Acceleration of RBF Computations</i></p>
10⁴⁰	<p>Sorin Cătălin TEICAN Iulian ACIOBĂŢEI Mihai Lica PURA Ferdinand I Military Technical Academy, <i>Romania</i></p>	<p><i>Using Set Rewriting to Implement the Chemical Reaction Computation Model</i></p>
11⁰⁰	<p>Victor Emil NEAGOE Adrian Dumitru CIOTEC George Sorin CUCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Deep Convolutional Neural Networks versus Multilayer Perceptron for Financial Prediction</i></p>
11²⁰	<p>Bogdan RUSTI Horia ŞTEFANESCU Jean GHENŢA Cristian PAŢACHIA Orange Romania, <i>Romania</i></p>	<p><i>Smart City as a 5G Ready Application</i></p>
11⁴⁰	<p>Victor GREU Petrică CIOTÎRNAE Leontin TUŢĂ Florin Gabriel POPESCU Ferdinand I Military Technical Academy, <i>Romania</i></p>	<p><i>Human and Artificial Intelligence Driven Incentive-Operation Model and Algorithms for a Multi-Purpose Integrated Crowdsensing-Crowdsourcing Scalable System</i></p>

ANTENNAS AND PROPAGATION 1

Thursday, June 14th, 2018

14³⁰–16³⁰, Room 5 (Sala 3.2)

Chairs:

Ioan NICOLAESCU

Ferdinand I Military Technical Academy, Romania

Remus CACOVEANU

Politehnica University of Bucharest, Romania

14³⁰	Laurențiu Iustin BUZINCU Lucian ANTON Daniel DEPĂRĂȚEANU Ferdinand I Military Technical Academy, Romania Mircea NICOLAESCU Synopsys, USA	<i>Analysis of an Array of Rectangular Apertures Based on the Active Parameters of its Infinite Extension</i>
14⁵⁰	Andra PĂSTRĂV Cristian CODAU Emanuel PUȘCHIȚĂ Paul DOLEA Tudor PALADE Technical University of Cluj-Napoca, Romania	<i>Conceptual Architecture of a Retrodirective Antenna System with Beamforming Capabilities</i>
15¹⁰	Alexandru TATOMIRESCU Politehnica University of Bucharest, Romania Gert PEDERSEN Aalborg University, Denmark	<i>Compact S band Antenna for Cube-Sat</i>
15³⁰	Alexandru TATOMIRESCU Politehnica University of Bucharest, Romania	<i>Compact Antenna for UHF IoT LPWAN Sensor</i>

ANTENNAS AND PROPAGATION 2

Thursday, June 14th, 2018
17⁰⁰–19⁰⁰, Room 5 (Sala 3.2)

Chairs:

Andrei ANGHEL

Politehnica University of Bucharest, Romania

Lucian ANTON

Ferdinand I Military Technical Academy, Romania

17 ⁰⁰	<p>Petru Adrian BUTA Aldo DE SABATA Cora IFTODE Andrei Marius SILAGHI Politehnica University of Timișoara, Romania Ladislau MATEKOVITS Politehnica of Torino, Italy</p>	<p><i>Applications of a Frequency Selective Surface based on a Combination of the Jerusalem Cross and a Circular Ring</i></p>
17 ²⁰	<p>Saeid KARAMZADEH Hasan SAYGIN Vahid RAFIEI Istanbul Aydin University, Turkey</p>	<p><i>Circularly Polarized Array Antenna with Emphasis on the Reduction of RCS by Utilizing Semi-Fractal Elements</i></p>
17 ⁴⁰	<p>Mihai Liviu TUDOSE Center of Earth Observation and Space Technology, Romania Andrei ANGHEL Remus CACOVEANU Politehnica University of Bucharest, Romania Mihai DATCU Center of Earth Observation and Space Technology, Romania</p>	<p><i>Electronic Target for Ground Based SAR Displacement Measurements</i></p>
18 ⁰⁰	<p>Filip ROȘU Andrei ANGHEL Politehnica University of Bucharest, Romania</p>	<p><i>Low-Cost S-Band FMCW Radar-Based Short-Range Displacement Sensor</i></p>

COMMUNICATION NETWORKS AND SYSTEMS 1

Thursday, June 14th, 2018

14³⁰–16³⁰, Room 4 (Sala 3.1)

Chairs:

Eugen BORCOCI

Politehnica University of Bucharest, Romania

Virgil DOBROTĂ

Technical University of Cluj-Napoca, Romania

14³⁰	Radu Alexandru BADEA Lucian STANCIU Politehnica University of Bucharest, Romania	<i>A Survey and Research Model for Vehicular Communication and Security Challenges</i>
14⁵⁰	Andrei JÎTARU Cristian Iulian RÎNCU Alexandru Ionuț FRUNZĂ Ferdinand I Military Technical Academy, Romania	<i>Evaluation of Carrier Supporting Carrier Networks for Various Types of Services</i>
15¹⁰	Alexandru Ionuț FRUNZĂ Cristian Iulian RÎNCU Andrei JÎTARU Ferdinand I Military Technical Academy, Romania	<i>Remote Network Monitoring using SDN based Solutions</i>
15³⁰	Daniel ZINCA Technical University of Cluj-Napoca, Romania	<i>Experiments with Protocols and Frameworks used in IoT</i>
15⁵⁰	Silviu Gabriel TOPOLOI Eugen BORCOCI Politehnica University of Bucharest, Romania	<i>Software Defined Networking and Network Function Virtualisation cooperation - experiments</i>
16¹⁰	Andra ȚAPU Cosmin CONȚU Eugen BORCOCI Politehnica University of Bucharest, Romania	<i>Multiple Chained Virtual Network Functions Experiments with SONATA Emulator</i>

COMMUNICATION NETWORKS AND SYSTEMS 2

Thursday, June 14th, 2018

17⁰⁰–19⁰⁰, Room 4 (Sala 3.1)

Chairs:

Șerban Georgică OBREJA

Politehnica University of Bucharest, Romania

Petrică CIOTÎRNAE

Ferdinand I Military Technical Academy, Romania

17 ⁰⁰	Silviu Andrei LAZĂR Mustafa Khaleel HAMADANI Carmen Elena ȘTEFAN Politehnica University of Bucharest, Romania	<i>Optimization of VANET's Control Plane for Safety Application Traffic</i>
17 ²⁰	Ionuț Mihai RADU Petrică CIOTÎRNAE Florin Gabriel POPESCU Ferdinand I Military Technical Academy, Romania	<i>Integrating Software Defined Networks with Traditional Hardware Networks</i>
17 ⁴⁰	Ema Maria GALEȘ Victor CROITORU Politehnica University of Bucharest, Romania Marius IORDACHE Orange Romania, Romania	<i>Layer 3 VPNv4 Traffic Balancing Mechanism Scenario</i>
18 ⁰⁰	Haitao ZHAO Haijun WANG Yichi ZHANG Jibo WEI Xiang LI National University of Defense Technology, China	<i>Modelling Smart Mobile Robotic Networks from a Cyber Physical System Perspective</i>
18 ²⁰	Haitao ZHAO Qiangjian DONG Luo CHEN Yongxiang LIU Honghu HUA National University of Defense Technology, China	<i>Offloading Channel Allocation to Terminals in High-Density IoTs for Next Generation Networks</i>
18 ⁴⁰	Xingwu SONG Li ZHOU National University of Defense Technology, China Man SU Beijing institute of tracking and telecommunication technology, China Jibo WEI Yunqi FU Xiang LI Chao LYU National University of Defense Technology, China	<i>A Recovering Algorithm for Disconnected Virtual Backbone Nodes in Hierarchical Wireless Networks</i>

WIRELESS COMMUNICATIONS

Friday, June 15th, 2018
10⁰⁰–12⁰⁰, Room 2 (Sala 2.2)

Chairs:

Adrian Florin PĂUN
 Politehnica University of Bucharest, *Romania*
Angela DIGULESCU
 Ferdinand I Military Technical Academy, *Romania*

10⁰⁰	<p style="text-align: center;">Dumitru Iulian NASTAC Politehnica University of Bucharest, <i>Romania</i> Elena Simona LOHAN Tampere University of Technology, <i>Finland</i> Florentin Alexandru IFTIMIE Octavian ARSENE Politehnica University of Bucharest, <i>Romania</i> Bogdan CRAMARIUC IT Center for Science and Technology, <i>Romania</i></p>	<i>Automatic Data Acquisition with Robots for Indoor Fingerprinting</i>
10²⁰	<p style="text-align: center;">Corneliu Eugen STERIAN Ion BĂNICĂ Politehnica University of Bucharest, <i>Romania</i></p>	<i>A Full-Rate Space-Time Block Code with Rational Separators and Shapers</i>
10⁴⁰	<p style="text-align: center;">Nodar UGRELIDZE Mariam SORDIA Caucasus University, <i>Georgia</i> Sergo SHAVGULIDZE David AKOBIA Georgian Technical University, <i>Georgia</i></p>	<i>Generalized Multistream Spatial Modulation for Wireless Systems with Nakagami-m Fading</i>
11⁰⁰	<p style="text-align: center;">Mădălina Georgiana BERCEANU Carmen VOICU Simona HALUNGA Politehnica University of Bucharest, <i>Romania</i></p>	<i>Performance Analysis of an Uplink Massive MU-MIMO OFDM-based System</i>
11²⁰	<p style="text-align: center;">Septimiu MISCHIE Politehnica University of Timișoara, <i>Romania</i></p>	<i>On the Development of Bluetooth Low Energy Devices</i>
11⁴⁰	<p style="text-align: center;">Cristinel GAVRILĂ Csaba Zoltan KERTESZ Marian ALEXANDRU Vlad POPESCU Transilvania University of Brașov, <i>Romania</i></p>	<i>Reconfigurable IoT Gateway Based on a SDR Platform</i>

RADIO COMMUNICATION TECHNOLOGIES 1

Thursday, June 14th, 2018
14³⁰–16³⁰, Room 2 (Sala 2.2)

Chairs:

Ion MARGHESCU

Politehnica University of Bucharest, Romania

Octavian FRATU

Politehnica University of Bucharest, Romania

14³⁰	Mahmoud ALIZADEH Daniel RONNOW University of Gavle (HiG), Sweden Peter HANDEL Royal Institute of Technology (KTH) , Sweden	<i>Characterization of Volterra Kernels for RF Power Amplifiers using a Two-Tone Signal and a Large-Signal</i>
14⁵⁰	Elena Mădălina OPROIU Iulian GIMIGA Orange Romania, Romania Ion MARGHESCU Politehnica University of Bucharest, Romania	<i>5G Fixed Wireless Access –Mobile Operator Perspective</i>
15¹⁰	Elena Mădălina OPROIU Marius IORDACHE Cătălin COSTEA Cătălin BREZEANU Cristian PAȚACHIA Orange Romania, Romania	<i>5G Network Architecture, Functional Model and Business Role for 5G Smart City Use Case: Mobile Operator Perspective</i>
15³⁰	Radu CURPEN Titus BĂLAN Ioan Alexandru MICLOȘ Ionuț COMĂNICI Transilvania University of Brașov, Romania	<i>Assessment of Signal Jamming Efficiency against LTE UAVs</i>

RADIO COMMUNICATION TECHNOLOGIES 2

Thursday, June 14th, 2018
17⁰⁰–19⁰⁰, Room 2 (Sala 2.2)

Chairs:

Călin VLĂDEANU
Politehnica University of Bucharest, Romania
Florin Gabriel POPESCU
Ferdinand I Military Technical Academy, Romania

17 ⁰⁰	Inês SANTOS Superior Technical Institute, Portugal Pedro VIEIRA Rui BORRALHO Instituto Superior de Engenharia, Portugal Maria Paula QUELUZ António RODRIGUES Superior Technical Institute, Portugal	<i>Emulating a Software Defined LTE Radio Access Network Towards 5G</i>
17 ²⁰	Michael O'BRIEN Jason HARRIS Otilia POPESCU Dimitrie POPESCU Old Dominion University, USA	<i>An Experimental Study of the Transmit Power for a USRP Software-Defined Radio</i>
17 ⁴⁰	Cosmina Valentina NĂSTASE Alexandru MARȚIAN Călin VLĂDEANU Ion MARGHESCU Politehnica University of Bucharest, Romania	<i>Spectrum Sensing based on Energy Detection Algorithms using GNU Radio and USRP for Cognitive Radio</i>
18 ⁰⁰	Alexandru RUSU-CASANDRA Adrian Florin PĂUN Politehnica University of Bucharest, Romania	<i>Performance Evaluation of a Tracking Algorithm for Galileo E1 Signals</i>
18 ²⁰	Alexandru Mihai CRIȘAN Politehnica University of Bucharest, Romania	<i>Inter-Satellite Radio Frequency Ranging Techniques for OFDM Communication Systems</i>

INTERNET TECHNOLOGIES

Friday, June 15th, 2018
10⁰⁰–12⁰⁰, Room 1 (Sala 2.1)

Chairs:

Adrian POPESCU
 Blekinge Institute of Technology, *Sweden*
Ion BICA
 Ferdinand I Military Technical Academy, *Romania*

10⁰⁰	<p>Vlad FERNOAGA George Alex STELEA Dan ROBU Florin SANDU</p> <p><i>Transilvania University of Braşov, Romania</i></p>	<p><i>Communication Solutions for Power Measurement in the Cloud</i></p>
10²⁰	<p>Constantin Viorel MARIAN Ionel Bujorel PĂVĂLOIU Victor CROITORU</p> <p><i>Politehnica University of Bucharest, Romania</i></p>	<p><i>Automatic Allocation Mechanism for Virtual Machines Interface Addresses</i></p>
10⁴⁰	<p>Eugen POP <i>SC IPA SA, Romania</i> Daniela GÎFU</p> <p><i>University "Alexandru Ioan Cuza" of Iaşi, Romania</i></p>	<p><i>A Service Oriented Architecture Approach for an E-Business Platform</i></p>
11⁰⁰	<p>Alexandru LUPAŞCU <i>certSIGN, Romania</i> Mihai TOGAN Cristian LUPAŞCU</p> <p><i>Ferdinand I Military Technical Academy, Romania</i></p>	<p><i>SGX-based Cloud Security Module with User's Sole Control</i></p>
11²⁰	<p>Adrian PĂUNA <i>Ferdinand I Military Technical Academy, Romania</i> Andrei Constantin IACOB <i>University "Alexandru Ioan Cuza" of Iaşi, Romania</i> Ion BICA <i>Ferdinand I Military Technical Academy, Romania</i></p>	<p><i>QRASSH – A Self-Adaptive SSH Honeypot Driven by Q-Learning</i></p>
11⁴⁰	<p>Victor SUCIU Cristina Mihaela BĂLĂCEANU Muneeb ANWAR <i>BEIA Cercetare, Romania</i> Adrian PASAT Hussain IJAZ Marius DOBREA Cristian BECEANU</p> <p><i>Beia Consult International, Romania</i></p>	<p><i>Analysis of Agriculture Sensors based on IoT</i></p>

COMMUNICATION SECURITY

Thursday, June 14th, 2018
14³⁰–16³⁰, Room 3 (Sala 2.3)

Chairs:

Octavian CATRINA
Politehnica University of Bucharest, Romania
Cristian Iulian RÎNCU
Ferdinand I Military Technical Academy, Romania

14 ³⁰	Octavian CATRINA Politehnica University of Bucharest, Romania	<i>Round-Efficient Protocols for Secure Multiparty Fixed-Point Arithmetic</i>
14 ⁵⁰	Bogdan Cosmin CHIFOR Sorin ŢEICAN Mihai TOGAN George GUGULEA certSIGN, Romania	<i>A Flexible Authorization Mechanism for Enterprise Networks using Smart-Phone Devices</i>
15 ¹⁰	Lucian GAFENCU Luminița SCRIPCARIU Gh. Asachi Technical University of Iași, Romania	<i>Security Issues in the Internet of Vehicles</i>
15 ³⁰	Raluca ONCIOIU Emil SIMION Politehnica University of Bucharest, Romania	<i>Approach to prevent SYN flood DoS Attacks in Cloud</i>
15 ⁵⁰	Laura VEGH Technical University of Cluj-Napoca, Romania	<i>A Survey of Privacy and Security Issues for the Internet of Things in the GDPR Era</i>
16 ¹⁰	Radu HOBINCU Octaviana DATCU Politehnica University of Bucharest, Romania	<i>A novel Chaos Based PRNG Targetting Secret Communication</i>

**SPECIAL SESSION:
Radio Frequency Technologies Used for Defence and
Security**

**Friday, June 15th, 2018
10⁰⁰–12⁰⁰, Room 6 (Sala 4.1)**

Chairs:
Ioan NICOLAESCU
Ferdinand I Military Technical Academy, Romania
Florin Roman ENACHE
Ferdinand I Military Technical Academy, Romania

10⁰⁰	<p>Dan MOTOTOLEA Ferdinand I Military Technical Academy, Romania</p> <p>Cornelis STOLK NATO Communications and Information Agency, Netherlands</p>	<p><i>Detection and Localization of Small Drones using Commercial off-the-shelf FPGA based Software Defined Radio Systems</i></p>
10²⁰	<p>Vasile Cristian RAICU Ioan NICOLAESCU Ferdinand I Military Technical Academy, Romania</p>	<p><i>Microstrip Patch Antenna for WiMAX Applications</i></p>
10⁴⁰	<p>Alexandru ALOMAN Victor Nicolae PETRESCU Ionuț Valentin GRECU Ferdinand I Military Technical Academy, Romania</p> <p>Jose Luis Gomez TORNERO Technical University of Cartagena, Spain</p>	<p><i>Analysis and Design of Line-Source Slotted- Coaxial Feeders for Conical Reflectors Antennas</i></p>
11⁰⁰	<p>Marius Gabriel ȚURCAN Leontin TUȚĂ Ferdinand I Military Technical Academy, Romania</p>	<p><i>Impact of Holes in Rectangular Dielectric Resonator Antennas</i></p>
11²⁰	<p>Dan MOTOTOLEA Ferdinand I Military Technical Academy, Romania</p> <p>Cornelis STOLK NATO Communications and Information Agency, Netherlands</p>	<p><i>Software Defined Radio for Analyzing Drone Communication Protocols</i></p>

WORKSHOP: Research & Innovation for Secure Societies (RISS)

Friday, June 15th, 2018
08⁵⁰–17⁴⁵, Research Center CAMPUS, Conference Room 3

08 ⁵⁰ –09 ⁰⁰	Welcome	
09 ⁰⁰ –10 ⁰⁰	<p style="text-align: center;">Keynote - <i>The Data Protection Impact Assessment: Guidelines for Law Enforcement Data Processing</i> Laurens NAUDTS KU Leuven Centre for IT&IP Law-imec, <i>Belgium</i></p> <p style="text-align: center;">Chair Corneliu BURILEANU, Politehnica University of Bucharest, <i>Romania</i></p>	
10 ⁰⁰ –10 ³⁰	Coffee Break Lobby	
10 ³⁰ –12 ⁰⁰	<p style="text-align: center;">Oral session 1 “Vision and Speech” Chair Răzvan ROMAN, Protection and Guard Service, <i>Romania</i></p>	
10 ³⁰	<p style="text-align: center;">Cătălin Alexandru MITREA Politehnica University of Bucharest, <i>Romania</i></p> <p style="text-align: center;">Mihai Gabriel CONSTANTIN Liviu Daniel ȘTEFAN Politehnica University of Bucharest, <i>Romania</i></p> <p style="text-align: center;">Roxana Elena MIHĂESCU Marian GHENESCU UTI Grup, Softrust Vision Analytics, <i>Romania</i></p> <p style="text-align: center;">Bogdan IONESCU Politehnica University of Bucharest, <i>Romania</i></p>	<i>Little-big Deep Neural Networks for Embedded Video Surveillance</i>
10 ⁴⁵	<p style="text-align: center;">Georgiana MIHALCEA Politehnica University of Bucharest, <i>Romania</i></p> <p style="text-align: center;">George SUCIU Cristian VASILESCU Beia Consult International, <i>Romania</i></p>	<i>Real-Time Autonomous System of Navigation using a Stereoscopic Camera</i>
11 ⁰⁰	<p style="text-align: center;">Alexandru Lucian GEORGESCU Horia CUCU Politehnica University of Bucharest, <i>Romania</i></p>	<i>GMM-UBM Modeling for Speaker Recognition on a Romanian Large Speech Corpora</i>
11 ¹⁵	<p style="text-align: center;">Roxana Elena MIHĂESCU Șerban Vasile CARATĂ UTI Grup, <i>Romania</i></p> <p style="text-align: center;">Veta GHENESCU Institute of Space Science, <i>Romania</i></p> <p style="text-align: center;">Mihai CHINDEA Cătălin Alexandru MITREA UTI Grup, <i>Romania</i></p>	<i>Noise Removal based on Artificial Intelligence Synergy Methods for Surveillance Scenarios</i>
11 ³⁰	<p style="text-align: center;">Iulian Ionuț FELEA Laura FLOREA Corneliu FLOREA Constantin VERTAN Politehnica University of Bucharest, <i>Romania</i></p>	<i>Head Pose Estimation Using Deep Architectures</i>
11 ⁴⁵	<p style="text-align: center;">Gheorghe POP Șerban MIHALACHE Dragoș BURILEANU Politehnica University of Bucharest, <i>Romania</i></p>	<i>Forensic Speaker Identification Using Speech Quality Data</i>
12 ⁰⁰ –13 ⁰⁰	Lunch Lobby	

13 ⁰⁰ –14 ⁴⁵	Oral session 2 “Signal and Sensors” Chair Geert DE CUBBER, Royal Military Academy, Belgium	
13 ⁰⁰	Marian BURIC Protection and Guard Service, Romania	<i>Mobile Broadband Public Safety Grade Network and Counter Remotely Piloted Aircraft Systems</i>
13 ¹⁵	Ionuț RĂDOI Florin RĂSTOCEANU Daniel Tiberius HRIȚCU Military Equipment and Technologies Research Agency, Romania	<i>Data Transfer Methods in FPGA based Embedded Design for High Speed Data Processing Systems</i>
13 ³⁰	Ștefan Ciprian ARSENI Ionuț RĂDOI Sergiu Beniamin MĂLUȚAN Marilena LAZĂR Ioana Roxana DRAGOMIR Military Equipment and Technologies Research Agency, Romania	<i>A Data Storage Model with User Controlled Cryptographic Mechanisms for Data Processing</i>
13 ⁴⁵	Valentin Alexandru VLĂDUȚĂ Ioana APOSTOL Ana Maria GHIMEȘ Ferdinand I Military Technical Academy, Romania	<i>Data Collection Analysis: Field Experiments with Wireless Sensors and Unmanned Aerial Vehicles</i>
14 ⁰⁰	Răzvan BĂRTUȘICĂ Mircea POPESCU Alexandru BOITAN The Special Telecommunications Service, Romania Simona HALUNGA Politehnica University of Bucharest, Romania	<i>Considerations for Emission Security Risks from the Perspective of Signal Processing Techniques</i>
14 ¹⁵	Alexandru BOITAN Răzvan BĂRTUȘICĂ The Special Telecommunications Service, Romania Octavian FRATU Politehnica University of Bucharest, Romania Mircea POPESCU Valerică BÂNDAR The Special Telecommunications Service, Romania	<i>Wireless Keyboards Communication Analysis - the Balance Between Convenience and Security</i>
14 ³⁰	Dragoș DRĂGHICESCU Alexandru CARANICA Alexandru VULPE Octavian FRATU Politehnica University of Bucharest, Romania	<i>Crypto-mining Application Fingerprinting Method</i>
14 ⁴⁵ –15 ¹⁵	Coffee Break Lobby	

15¹⁵-16⁴⁵	Oral session 3 “Research projects” Chair Marian BURIC, Protection and Guard Service, Romania	
15¹⁵	Răzvan ROMAN Protection and Guard Service, <i>Romania</i>	Project RedAlert http://redalertproject.eu/
15³⁰	Georgios STAVROPOULOS Centre for Research & Technology Hellas, <i>Greece</i>	Project SMILE http://smile-h2020.eu/smile/
15⁴⁵	Mihai SIMIONESCU Protection and Guard Service, <i>Romania</i>	Project ROBORDER http://roborder.eu/
16⁰⁰	Geert DE CUBBER Royal Military Academy, <i>Belgium</i>	Project SafeShore http://safeshore.eu
16¹⁵	Răzvan ROMAN Protection and Guard Service, <i>Romania</i>	Project VICTORIA http://cordis.europa.eu/project/rcn/210226_en.html
16³⁰	Cătălin Alexandru MITREA Politehnica University of Bucharest, <i>Romania</i>	Project SPOTTER http://www.campus.pub.ro/lab7/spotter/
16⁴⁵	Petrică CIOTÎRNAE Ferdinand I Military Technical Academy, <i>Romania</i>	Project SIS-COM-ISC http://www.9sol.ro
16⁴⁵-17³⁰	Demo session, Research Center CAMPUS Chair Bogdan IONESCU, Politehnica University of Bucharest, Romania	
17³⁰-17⁴⁵	Closing remarks	

	Thursday June 14 th , 2018 14 ³⁰ –16 ³⁰	Thursday June 14 th , 2018 17 ⁰⁰ –19 ⁰⁰	Friday June 15 th , 2018 10 ⁰⁰ –12 ⁰⁰
Room 1 (Sala 2.1)	Signal Processing 1	Signal Processing 2	Internet Technologies
Room 2 (Sala 2.2)	Radio Communication Technologies 1	Radio Communication Technologies 2	Wireless Communications
Room 3 (Sala 2.3)	Communications Security	Natural Language and Speech Processing	Communication Theory
Room 4 (Sala 3.1)	Communication Networks and Systems 1	Communication Networks and Systems 2	
Room 5 (Sala 3.2)	Antennas and Propagation 1	Antennas and Propagation 2	Computational Intelligence
Room 6 (Sala 4.1)	Image Processing 1	Image Processing 2	Special Session Radio Frequency Technologies Used for Defence and Security

Room	Thursday June 14 th , 2018	Friday June 15 th , 2018
<i>Ground Floor</i>	08 ⁰⁰ –19 ⁰⁰ Conference Secretariat	08 ⁰⁰ –12 ³⁰ Conference Secretariat
<i>Radu Voinea Amphitheater AN010</i>	09 ⁰⁰ –13 ⁰⁰ Opening Session	
<i>Sala 3.1</i>		08 ³⁰ –09 ³⁰ Invited Papers Session 2
		12 ¹⁵ –12 ³⁰ Closing Session, Best Student Paper and Diploma of Appreciation Awards
<i>Ground Floor Hall</i>	09 ⁰⁰ –19 ⁰⁰ Exhibition	08 ³⁰ –12 ³⁰ Exhibition
<i>4th Floor Hall</i>	16 ³⁰ –17 ⁰⁰ Coffee Break	09 ³⁰ –10 ⁰⁰ Coffee Break
	19 ⁰⁰ –22 ⁰⁰ Official Diner	12 ¹⁵ –12 ³⁰ Coffee Break
<i>Research Center CAMPUS Conference Room 3</i>		08 ⁵⁰ –17 ⁴⁵ RISS Workshop

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Daniel BELEGA	10	Laura Maria DOGARIU	9	Elena Simona LOHAN	20
Mihai BELU	10	Ioana DOGARU	15	Alexandru LUPAȘCU	23
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