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COMMUNICATIONS 2020



Organized by

Military Technical Academy 'Ferdinand I'

Politehnica University of Bucharest

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Electronica 2000 Foundation

Under the aegis of

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Romanian Academy of Technical Sciences

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Conference Program

Thursday, June 18th, 2020	
09⁰⁰–11⁰⁰	Opening Session, Welcome Speeches, Invited Papers
09⁰⁰–09¹⁰	<p style="text-align: center;"><u>Conference Chairs</u></p> Ioan NICOLAESCU , Military Technical Academy ‘Ferdinand I’, <i>Romania</i> Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i>
09¹⁰–09⁴⁰	<p style="text-align: center;">Sponsor Presentation</p> 5G-VICTORI project – a driver for industrial and societal changes Cristian PATACHIA-SULTANOIU , Orange Romania
09⁴⁰–11⁰⁰	<p style="text-align: center;">Invited Papers Session</p> <p style="text-align: center;"><u>Chairs</u></p> Ioan NICOLAESCU , Military Technical Academy ‘Ferdinand I’, <i>Romania</i> Victor CROITORU , Politehnica University of Bucharest, <i>Romania</i>
09⁴⁰–10²⁰	<p style="text-align: center;"><i>A Cybersecurity Model for Decision-Making Problems Under Uncertainty Using Game Theory</i></p> Paul COTAE , University of the District of Columbia, <i>United States</i> Myong KANG , Naval Research Laboratory, <i>United States</i> Alexander VELAZQUEZ , Naval Research Laboratory, <i>United States</i>
10²⁰–11⁰⁰	<p style="text-align: center;"><i>On the Performance of Virtualised Communication Systems</i></p> Adrian POPESCU , Blekinge Institute of Technology, <i>Sweden</i>
11⁰⁰–13⁰⁰	Parallel Sessions
13⁰⁰–13⁴⁰	Lunch
13⁴⁰–14⁰⁰	<p style="text-align: center;">Sponsor Presentations</p> <p style="text-align: center;"><u>Chairs</u></p> Petrică CIOTÎRNAE , Military Technical Academy ‘Ferdinand I’, <i>Romania</i> Iulia Andreea MOCANU , Politehnica University of Bucharest, <i>Romania</i>
14⁰⁰–19⁴⁰	Parallel Sessions

Friday, June 19th, 2020	
11 ⁰⁰ –13 ⁰⁰	Parallel Sessions
13 ⁰⁰ –13 ⁴⁰	Lunch
13 ⁴⁰ –14 ⁰⁰	<p>Sponsor Presentations <u>Chairs</u> Petrică CIOTÎRNAE, Military Technical Academy ‘Ferdinand I’, <i>Romania</i> Iulia Andreea MOCANU, Politehnica University of Bucharest, <i>Romania</i></p>
14 ⁰⁰ –17 ⁴⁰	Parallel Sessions

Parallel Sessions Schedule

SIGNAL PROCESSING I		
Thursday, June 18th, 2020 11⁰⁰–13⁰⁰ Chairs: Alexandru ȘERBĂNESCU Military Technical Academy 'Ferdinand I', Romania Silviu CIOCHINĂ Politehnica University of Bucharest, Romania		
11⁰⁰	Corina MACOVEI Alexandru VĂDUVA Adriana VLAD Bogdan BADEA Politehnica University of Bucharest, Romania	<i>The Autocorrelation Function of the Logistic Map Chaotic Signal in Relation with the Statistical Independence Issue</i>
11²⁰	Filip ROȘU NXP Semiconductors, Romania	<i>Recursive Error Division Kalman Filter for Advanced Driver Assistance Radar Systems</i>
11⁴⁰	Filip ROȘU NXP Semiconductors, Romania	<i>Cartesian Tracking for Advanced Driver Assistance Imaging Radar Systems</i>
12⁰⁰	Camelia ELISEI-ILIESCU Constantin PALEOLOGU Politehnica University of Bucharest, Romania Jacob BENESTY INRS-EMT, University of Quebec, Canada Cristian STANCIU Cristian ANGHEL Silviu CIOCHINĂ Politehnica University of Bucharest, Romania	<i>A Decomposition-Based RLS Algorithm with Variable Forgetting Factors</i>
12²⁰	Lucian EVDOCHIM Politehnica University of Bucharest, Romania Aleksei E. ZHDANOV Vasilii BORISOV Ural Federal University, Russia Dragoș DOBRESCU Politehnica University of Bucharest, Romania Leonid DOROSINSKY Ural Federal University, Russia	<i>Blood Mixers for Transfusion Therapy: Blood Flow Estimation Based on PPG Technique</i>
12⁴⁰	Răzvan SCRIPCARU Dragoș NASTASIU Angela DIGULESCU Denis STĂNESCU Military Technical Academy Ferdinand I, Romania Cornel IOANA Universite de Grenoble, France Alexandru ȘERBĂNESCU Military Technical Academy Ferdinand I, Romania	<i>On the Potential of Phase Diagram Analysis to Identify the Wide Band Modulations</i>

COMMUNICATION SECURITY I

Thursday, June 18th, 2020

11⁰⁰–13⁰⁰

Chairs:

Paul COTAE

University of the District of Columbia, *United States*

Victor CROITORU

Politehnica University of Bucharest, *Romania*

11 ⁰⁰	Mohammed ABUTAHA Islam Ayman AMAR Palestine Polytechnic University, <i>Palestine</i>	<i>Enhancement of an Encryption System Performance Using MPI</i>
11 ²⁰	Veronica GAVRILĂ Lidia BĂJENARU Mihaela TOMESCU Ciprian DOBRE National Institute for Research and Development in Informatics, <i>Romania</i>	<i>Security Measures Analysis Related to INTELLIT Platform</i>
11 ⁴⁰	Madălina I ALDEA Daniel GHEORGHICA Kapsch SRL, <i>Romania</i> Victor CROITORU Politehnica University of Bucharest, <i>Romania</i>	<i>Software Vulnerabilities Integrated Management System</i>
12 ⁰⁰	Iulian ACIOBĂNIȚEI Vlad DEDIȚĂ Mihai Lică PURA Victor Valeriu PATRICIU Military Technical Academy Ferdinand I, <i>Romania</i>	<i>SABRES - A Proof of Concept for Enhanced Cloud Qualified Electronic Signatures</i>
12 ²⁰	Iulian ACIOBĂNIȚEI Mihai Lică PURA Ionuț LUCULESCU Military Technical Academy Ferdinand I, <i>Romania</i>	<i>Qualified Electronic Signature SaaS Solution for Google Docs & Google Sheets Documents</i>
12 ⁴⁰	Elena Cristina RUICĂ Mihai Lică PURA Iulian ACIOBĂNIȚEI Military Technical Academy Ferdinand I, <i>Romania</i>	<i>Implementing Cloud Qualified Electronic Signatures for Documents Using Available Cryptographic Libraries: A Survey</i>

IMAGE PROCESSING I

Thursday, June 18th, 2020
14⁰⁰–16⁰⁰

Chairs:

Iulian Constantin VIZITIU

Military Technical Academy 'Ferdinand I', Romania

Alexandru Cosmin GRIVEI

Military Technical Academy 'Ferdinand I', Romania

14 ⁰⁰	Victor Emil NEAGOE Paul DIACONESCU Politehnica University of Bucharest, Romania	<i>An Ensemble of Deep Convolutional Neural Networks for Drunkenness Detection Using Thermal Infrared Facial Imagery</i>
14 ²⁰	Adriana MOLDER Cristian MOLDER Iulian Constantin VIZITIU Military Technical Academy Ferdinand I, Romania Silviu DUMITRESCU Carol Davila Central Military Emergency University Hospital, Romania	<i>Characterization of Atheroma Plaques Echogenicity and Texture for Computer-Aided Diagnosis in Cardiovascular Diseases</i>
14 ⁴⁰	Mihai DOGARIU Liviu Daniel ȘTEFAN Mihai Gabriel CONSTANTIN Bogdan IONESCU Politehnica University of Bucharest, Romania	<i>Human-Object Interaction: Application to Abandoned Luggage Detection in Video Surveillance Scenarios</i>
15 ⁰⁰	Silvia OVREIU Politehnica University of Bucharest, Romania Irina CRISTESCU Florian BALTĂ Carol Davila University of Medicine and Pharmacy, Romania Alina SULTANA Elena OVREIU Politehnica University of Bucharest, Romania	<i>Early Detection of Glaucoma Using Residual Networks</i>
15 ²⁰	Adriana MOLDER Cristian MOLDER Iulian Constantin VIZITIU Military Technical Academy Ferdinand I, Romania Dan MISCHIANU Carol Davila University of Medicine and Pharmacy, Romania Silviu DUMITRESCU Carol Davila Central Military Emergency University Hospital, Romania	<i>Stroke Risk Assessment Using Atheroma Plaque Surface Features Evaluation</i>
15 ⁴⁰	Alexandru-Cosmin GRIVEI Military Technical Academy Ferdinand I, Romania	<i>SVMIRE - An Open Source SVM Image Retrieval with Relevance Feedback System for Earth Observation Data Classification</i>

WIRELESS COMMUNICATIONS

Thursday, June 18th, 2020
14⁰⁰–16⁰⁰

Chairs:

Adrian Florin PĂUN

Politehnica University of Bucharest, *Romania*

Angela DIGULESCU

Military Technical Academy 'Ferdinand I', *Romania*

14⁰⁰	<p>Septimiu MISCHIE Liliana MATIU-IOVAN Politehnica University Timișoara, <i>Romania</i></p>	<p><i>Heading Computation Using Magnetometer, Inertial Sensors and Bluetooth Communication</i></p>
14²⁰	<p>Sara L MACDONALD The MITRE Corporation, <i>USA</i> Dimitrie POPESCU Otilia POPESCU Old Dominion University, <i>USA</i></p>	<p><i>Incremental Expectation Maximization for Estimating Dynamic Primary User Activity in Cognitive Radio</i></p>
14⁴⁰	<p>Omer Mohammed Khodayer AL-DULAIMI Mahmood Jalal Ahmad AL SAMMARRAIE Călin VLĂDEANU Alexandru MARȚIAN Politehnica University Timișoara, <i>Romania</i> Dimitrie POPESCU Old Dominion University, <i>USA</i></p>	<p><i>Cooperative Spectrum Sensing for Three Secondary Users with Sequential Relaying for Cognitive Radio</i></p>
15⁰⁰	<p>Șerban Georgică OBREJA Alexandru VULPE Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Evaluation of an Indoor Localization Solution Based on Bluetooth Low Energy Beacons</i></p>
15²⁰	<p>Paul STOICA Military Technical Academy Ferdinand I, <i>Romania</i> Sanjoy BASAK Royal Military Academy, <i>Belgium</i> Cristian MOLDER Military Technical Academy Ferdinand I, <i>Romania</i> Bart SCHEERS Royal Military Academy, <i>Belgium</i></p>	<p><i>Review of counter-UAV Solutions Based on the Detection of Remote Control Communication</i></p>
15⁴⁰	<p>Marius PREDĂ Victor Valeriu PATRICIU Military Technical Academy Ferdinand I, <i>Romania</i></p>	<p><i>Simulating RPL Attacks in 6LoWPAN for Detection Purposes</i></p>

VEHICULAR ELECTRONIC SYSTEMS

Thursday, June 18th, 2020
16⁰⁰–18⁰⁰

Chairs:

Sorin ZOICAN

Politehnica University of Bucharest, Romania

Șerban Georgică OBREJA

Politehnica University of Bucharest, Romania

16⁰⁰	<p>Sorin ZOICAN Marius VOCHIN Roxana ZOICAN Dan GALAȚCHI</p> <p><i>Politehnica University of Bucharest, Romania</i></p>	<p><i>Neural Network-based Data Communication System in Internet of Vehicles</i></p>
16²⁰	<p>Onyekachukwu Augustine EZENWIGBO Jose RAMIREZ Gayathri KARTHICK Glenford MAPP Ramona TRESTIAN</p> <p><i>Middlesex University, United Kingdom</i></p>	<p><i>Exploring the Provision of Reliable Network Storage in Highly Mobile Environments</i></p>
16⁴⁰	<p>Filip CONSTANTIN George SUCIU Sabina BOSOC</p> <p><i>BEIA Consult International, Romania</i></p> <p>Răzvan CRĂCIUNESCU <i>Politehnica University of Bucharest, Romania</i></p>	<p><i>Internet Controlled Car</i></p>
17⁰⁰	<p>Cosmin CONTU Iulian CIOARCA Monica ENE Laura NICHIFOR PEPPERBIT, Romania</p>	<p><i>Study on Optimal Convolutional Neural Networks Architecture for Traffic Sign Classification Using Augmented Dataset</i></p>
17²⁰	<p>Ștefan MIHAI Purav SHAH Glenford MAPP Huan X NGUYEN Ramona TRESTIAN</p> <p><i>Middlesex University, United Kingdom</i></p>	<p><i>Towards Autonomous Driving: A Machine Learning- based Pedestrian Detection System Using 16-Layer LiDAR</i></p>
17⁴⁰	<p>Ștefan MIHAI Nedzhmi DOKUZ Meer Saqib ALI Purav SHAH Ramona TRESTIAN</p> <p><i>Middlesex University, United Kingdom</i></p>	<p><i>Security Aspects of Communications in VANETs</i></p>

COMPUTATIONAL INTELLIGENCE

Thursday, June 18th, 2020
16⁰⁰–18⁰⁰

Chairs:

Victor Emil NEAGOE

Politehnica University of Bucharest, Romania

Mihai Lică PURA

Military Technical Academy 'Ferdinand I', Romania

16 ⁰⁰	Alina Florina GLĂVAN Viorel Constantin MARIAN Politehnica University of Bucharest, Romania	<i>Cognitive Edge Computing Through Artificial Intelligence</i>
16 ²⁰	Constantin NILĂ Ioana APOSTOL Victor Valeriu PATRICIU Military Technical Academy Ferdinand I, Romania	<i>Machine Learning Approach to Quick Incident Response</i>
16 ⁴⁰	Florin ENACHE Victor GREU Petrică CIOTÎRNAE Florin Gabriel POPESCU Military Technical Academy Ferdinand I, Romania	<i>Model and Algorithms for Optimizing a Human Computing System Oriented to Knowledge Extraction by Use of Crowdsourcing</i>
17 ⁰⁰	Liviu Daniel ȘTEFAN Șeila ABDULAMIT Mihai DOGARIU Mihai Gabriel CONSTANTIN Bogdan IONESCU Politehnica University of Bucharest, Romania	<i>Deep Learning-based Person Search with Visual Attention Embedding</i>
17 ²⁰	Mircea WEINGART Politehnica University of Bucharest, Romania Orest VASCAN Crescendo Company, Romania	<i>Semi-Autonomous Navigation Control System for Human Retina Surgery Tool</i>
17 ⁴⁰	Alina SULTANA Horvath BALAZS Silvia OVREIU Șerban OPRIȘESCU Politehnica University of Bucharest, Romania Cătălina NEGHINĂ University Lucian Blaga, Romania	<i>Infantile Hemangioma Detection Using Deep Learning</i>

NATURAL LANGUAGE AND SPEECH PROCESSING

Thursday, June 18th, 2020

18⁰⁰–19²⁰

Chairs:

Adriana VLAD

Politehnica University of Bucharest, *Romania*

Ştefan Adrian TOMA

Military Technical Academy 'Ferdinand I', *Romania*

18 ⁰⁰	<p>Alexandru DINU Adriana VLAD Bogdan HANU Adrian MITREA</p> <p>Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>The Statistical Independence for Words in Printed Romanian Language</i></p>
18 ²⁰	<p>Sergiu EFTIMIE Radu MOINESCU Ciprian RĂCUCIU</p> <p>Military Technical Academy Ferdinand I, <i>Romania</i></p>	<p><i>Insider Threat Detection Using Natural Language Processing and Personality Profiles</i></p>
18 ⁴⁰	<p>Cătălina MĂRĂNDUC Alexandru Ioan Cuza University, <i>Romania</i> Victoria BOBICEV Roman UNTILOV Technical University of Moldova, <i>Moldova</i></p>	<p><i>Parsing Romanian Texts</i></p>
19 ⁰⁰	<p>Claudiu POPESCU Lăcrimioara GRAMA Corneliu RUSU</p> <p>Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>On the Use of Positive Definite Symmetric Kernels for Summary Extraction</i></p>

ANTENNAS AND PROPAGATION

Thursday, June 18th, 2020
18⁰⁰–19⁴⁰

Chairs:

Ioan NICOLAESCU
 Military Technical Academy 'Ferdinand I', Romania
Ion BOGDAN
 Gheorghe Asachi Technical University, Romania

18⁰⁰	<p>Zaid SALEH Yanal S FAOURI University of Jordan, Jordan</p>	<p><i>Triple Feed Triangular Microstrip Antenna for Polarization Diversity</i></p>
18²⁰	<p>Muneeb SHOAB Shafayat ABRAR Habib University, Pakistan</p>	<p><i>Planar Inverted-F Antenna for Portable Devices: An Empirical Study of the Resonant Frequency and Fractional Bandwidth</i></p>
18⁴⁰	<p>Ioan NICOLAESCU Laurențiu BUZINCU Lucian ANTON Military Technical Academy Ferdinand I, Romania</p>	<p><i>UWB Antenna for a Radar Sensor</i></p>
19⁰⁰	<p>Cristian ANDRIESEI Gheorghe Asachi Technical University, Romania</p>	<p><i>Experiments to Assess the Implementation of a 4 GHz Proximity Detector for Smart Crosswalk</i></p>
19²⁰	<p>Bogdan TRIP Vlad BUTNARIU Valentin VELICU The Special Telecommunications Service, Romania Simona HALUNGA Politehnica University of Bucharest, Romania Alexandru BOITAN The Special Telecommunications Service, Romania</p>	<p><i>Analysis of the Compromising Audio Signal from the Emission Security Perspective</i></p>

SIGNAL PROCESSING II

Friday, June 19th, 2020
09⁰⁰–11⁰⁰

Chairs:

Ion BĂNICĂ

Politehnica University of Bucharest, *Romania*

Constantin PALEOLOGU

Politehnica University of Bucharest, *Romania*

09 ⁰⁰	<p>Leontin TUȚĂ Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Mircea NICOLAESCU Politehnica University of Bucharest, <i>Romania</i></p> <p>Georgiana ROȘU Alexandru Cosmin GRIVEI Victor Bogdan BĂRBULESCU Military Technical Academy Ferdinand I, <i>Romania</i></p>	<p><i>A Robust Adaptive Filtering Method Based on Independent Component Analysis (ICA)</i></p>
09 ²⁰	<p>Lucian EVDOCHIM Politehnica University of Bucharest, <i>Romania</i></p> <p>Aleksei E. ZHDANOV Vasili BORISOV Ural Federal University, <i>Russia</i></p> <p>Dragoș DOBRESCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Reflection Coefficient in Pressure Pulse of Human Blood Flow</i></p>
09 ⁴⁰	<p>Doru Florin CHIPER Laura Teodora COTOROBAI Technical University Gh. Asachi, <i>Romania</i></p>	<p><i>A New VLSI Algorithm for an Efficient VLSI Implementation of Type IV DST Based on Short Band-Correlation Structures</i></p>
10 ⁰⁰	<p>Cristina DESPINA-STOIAN Angela DIGULESCU Alexandru ȘERBĂNESCU Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Roua YOUSSEF Emanuel RĂDOI University of Brest & Lab-STICC, <i>France</i></p>	<p><i>Comparison of Adaptive Filtering Strategies for Self-Interference Cancellation in LTE Communication Systems</i></p>
10 ²⁰	<p>Eduard Valentin TOMA Anca Mihaela Ruxandra TOMA Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>A Comparative Study of Alamouti and Golden Space-Time Block Codes</i></p>
10 ⁴⁰	<p>Valentin Adrian NIȚĂ Dumitru STANOMIR Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Real-time Temporal Audio Watermarking for Mobile Communication</i></p>

RADIO COMMUNICATION TECHNOLOGIES

Friday, June 19th, 2020
09⁰⁰–11⁰⁰

Chairs:

Ion MARGHESCU

Politehnica University of Bucharest, *Romania*

Florin Gabriel POPESCU

Military Technical Academy 'Ferdinand I', *Romania*

09⁰⁰	<p>Alexandru MARȚIAN Florin Lucian CHIPER Omer Mohammed Khodayer AL-DULAIMI Mahmood Jalal Ahmad AL SAMMARRAIE Călin VLĂDEANU Ion MARGHESCU</p> <p><i>Politehnica University of Bucharest, Romania</i></p>	<p><i>Comparative Analysis of Software Defined Radio Platforms for Spectrum Sensing Applications</i></p>
09²⁰	<p>Anghel BOTOS Vasile BOTA</p> <p><i>Technical University of Cluj-Napoca, Romania</i></p>	<p><i>Theoretical Performance Evaluation of a Concatenated Rateless-FEC Coding Scheme</i></p>
09⁴⁰	<p>Burak TASCI Yavuz EROL</p> <p><i>Firat University, Turkey</i></p>	<p><i>PSoC Based Embedded RF Link Design</i></p>
10⁰⁰	<p>Andra Georgiana TIMOFTE Florin RADU Alexandra BALAN Titus Constantin BALAN</p> <p><i>Transilvania University of Braşov, Romania</i></p>	<p><i>SDR-based Platform for Processing the Images Transmitted Through the WLAN 802.11A Protocol</i></p>
10²⁰	<p>Florin RADU Andra TIMOFTE Alexandra BALAN Florin SANDU</p> <p><i>Transilvania University of Braşov, Romania</i></p>	<p><i>LTE Communications Using an SDR Platform</i></p>
10⁴⁰	<p>Florin DIACONESCU</p> <p><i>Military Technical Academy Ferdinand I, Romania</i></p>	<p><i>Impulse Radio UWB Blind Detection Using Cross Recurrence Plot</i></p>

IMAGE PROCESSING II

Friday, June 19th, 2020

11⁰⁰–13⁰⁰

Chairs:

Constantin VERTAN

Politehnica University of Bucharest, *Romania*

Daniela FAUR

Politehnica University of Bucharest, *Romania*

11 ⁰⁰	<p>Andrei Marius AVRAM Politehnica University of Bucharest, <i>Romania</i></p> <p>Luciana Maria MOROGAN Ștefan Adrian TOMA Military Technical Academy Ferdinand I, <i>Romania</i></p>	<p><i>OpenNIG - Open Neural Image Generator</i></p>
11 ²⁰	<p>Cristian LUPAȘCU Cezar PLEȘCA Mihai TOGAN certSIGN, <i>Romania</i></p>	<p><i>Privacy Preserving Morphological Operations for Digital Images</i></p>
11 ⁴⁰	<p>Alexandru Cosmin GRIVEI Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Corina VĂDUVA Mihai DATCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Assessment of Burned Area Mapping Methods for Smoke Covered Sentinel-2 Data</i></p>
12 ⁰⁰	<p>Victor Bogdan BĂRBULESCU Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Andreea GRIPARIS Mihai DATCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>A Bag-of-Words Framework for Natural Disaster Evaluation on Sentinel-2 Image</i></p>
12 ²⁰	<p>Mohammed Tali ALMALCHY Sarmad ALGAYAR Nirvana POPESCU Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Atrial Fibrillation Automatic Diagnosis Based on ECG Signal Using Pretrained Deep Convolution Neural Network and SVM Multiclass Model</i></p>
12 ⁴⁰	<p>Adrian FOCȘA Mihai DATCU Politehnica University of Bucharest, <i>Romania</i></p> <p>Ștefan Adrian TOMA Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Andrei ANGHEL Remus CACOVEANU University Politehnica of Bucharest, <i>Romania</i></p>	<p><i>Opportunistic Bistatic SAR Image Classification Using Sub-aperture Decomposition</i></p>

INTERNET OF THINGS

Friday, June 19th, 2020
11⁰⁰–13⁰⁰

Chairs:

Adrian POPESCU
Blekinge Institute of Technology, Sweden
Emanuel RĂDOI
University of Brest, France

11 ⁰⁰	<p>George SUCIU Teodora UȘURELU BEIA Consult International, Romania Răzvan CRĂCIUNESCU Politehnica University of Bucharest, Romania</p>	<p><i>IoT and Automation Solutions for Cities and Industry of Tomorrow</i></p>
11 ²⁰	<p>Mădălina Mioara ANGHELOF George SUCIU BEIA Consult International SRL, Romania Răzvan CRĂCIUNESCU Cristina MARGHESCU Politehnica University of Bucharest, Romania</p>	<p><i>Intelligent System for Precision Agriculture</i></p>
11 ⁴⁰	<p>Ekaterina SVERTOKA Alexandru RUSU Ion MARGHESCU Politehnica University of Bucharest, Romania</p>	<p><i>State of the Art of Industrial Wearables: A Systematic Review</i></p>
12 ⁰⁰	<p>Claudia Melania CHITUC Leibniz-Institut für Bildungsforschung und Bildungsinformation, Germany</p>	<p><i>Interoperability Standards in the IoT-enabled Future Learning Environments: An Analysis of the Challenges for Seamless Communication</i></p>
12 ²⁰	<p>Alexandru SAVA Sorin ZOICAN Politehnica University of Bucharest, Romania</p>	<p><i>Wireless Sensors Network Framework for Developing Boards Using Contiki Operating System</i></p>
12 ⁴⁰	<p>Claudia Melania CHITUC Leibniz-Institut für Bildungsforschung und Bildungsinformation, Germany</p>	<p><i>Towards Seamless Communication in the Web of Things: Are Standards Sufficient to Ensure Interoperability?</i></p>

ELECTROMAGNETIC COMPATIBILITY

Friday, June 19th, 2020
14⁰⁰–16⁰⁰

Chairs:

Octavian FRATU
 Politehnica University of Bucharest, *Romania*
Leontin TUȚĂ
 Military Technical Academy 'Ferdinand I', *Romania*

14⁰⁰	<p>Eugen STANCU Simona HALUNGA Octavian FRATU Carmen FLOREA Mădălina BERCEANU Cristian CAPOTĂ</p> <p>Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>Spectral Analysis in the 2.4 GHz WIFI Band in Bucharest</i></p>
14²⁰	<p>Adrian Petru BUTA Andrei Marius SILAGHI Aldo DE SABATA</p> <p>Politehnica University of Timișoara, <i>Romania</i></p> <p>Ladislau MATEKOVITS Politecnico di Torino, <i>Italy</i></p>	<p><i>Multiple-Notch Frequency Selective Surface for Automotive Applications</i></p>
14⁴⁰	<p>Octavian PĂCURAR Andrei SILAGHI Aldo DE SABATA</p> <p>Politehnica University of Timișoara, <i>Romania</i></p>	<p><i>Measurement and Simulation of Electrostatic Discharge in the Automotive Industry</i></p>
15⁰⁰	<p>Mircea NICOLAESCU Politehnica University of Bucharest, <i>Romania</i> Dan STOICA Military Equipment and Technologies Research Agency, <i>Romania</i></p>	<p><i>Two PCB Traces Coupling Analysis</i></p>
15²⁰	<p>Georgiana ROȘU Leontin TUȚĂ Ana HALCA</p> <p>Military Technical Academy Ferdinand I, <i>Romania</i></p> <p>Simona BICHERU Radu HERTZOG</p> <p>Military Medical Research Center, <i>Romania</i></p> <p>Octavian BALTAG Grigore T. Popa University of Medicine and Pharmacy, <i>Romania</i></p>	<p><i>Experimental Platform for Studying the Impact of Environmental Electromagnetic Fields on Living Organisms</i></p>
15⁴⁰	<p>Mircea NICOLAESCU Victor CROITORU</p> <p>Politehnica University of Bucharest, <i>Romania</i></p> <p>Leontin TUȚĂ Military Technical Academy Ferdinand I, <i>Romania</i></p>	<p><i>Electromagnetic Analysis of Cross Talk in Electronic Digital Modules</i></p>

COMMUNICATION NETWORKS AND SYSTEMS

Friday, June 19th, 2020
14⁰⁰–16⁰⁰

Chairs:

Marius VOCHIN

Politehnica University of Bucharest, Romania

Petrică CIOTÎRNAE

Military Technical Academy 'Ferdinand I', Romania

14 ⁰⁰	Octavian CATRINA Politehnica University of Bucharest, Romania	<i>Performance Analysis of Secure Floating-Point Sums and Dot Products</i>
14 ²⁰	Robert BOTEZ Călin Marian IURIAN Iustin Alexandru IVANCIU Virgil DOBROTĂ Technical University of Cluj-Napoca, Romania	<i>Deploying a Dockerized Application with Kubernetes on Google Cloud Platform</i>
14 ⁴⁰	Alexandru EFTIMIE Eugen BORCOCI Politehnica University of Bucharest, Romania	<i>SDN Controller Implementation Using OpenDaylight: Experiments</i>
15 ⁰⁰	Eugen POP IPA SA, Romania Daniela GIFU Alexandru Ioan Cuza University of Iași, Romania	<i>Performance Evaluation for an E-Business Platform</i>
15 ²⁰	Pantelimon Teodor TIVIG Eugen BORCOCI Politehnica University of Bucharest, Romania	<i>Critical Analysis of Multi-Controller Placement Problem in Large SDN Networks</i>
15 ⁴⁰	Kashinath BASU Aws HAMDULLAH Frank BALL Oxford Brookes University, United Kingdom	<i>Architecture of a Cloud-based Fault-Tolerant Control Platform for Improving the QoS of Social Multimedia Applications on SD-WAN</i>

COMMUNICATION SECURITY II

Friday, June 19th, 2020
16⁰⁰-17⁴⁰

Chairs:

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

16 ⁰⁰	Louise Bergman MARTINKAUPPI Qiuping HE Dragoş ILIE Blekinge Institute of Technology, Sweden	<i>On the Design and Performance of Chinese OSCCA-approved Cryptographic Algorithms</i>
16 ²⁰	Radu Caius LUPU Octavian CATRINA Politehnica University of Bucharest, Romania Nicolas MORO IMEC-NL, Netherlands	<i>Security Threats Identification and Definition in Early Design Phases of Automotive IT Services</i>
16 ⁴⁰	Liliana ZISU Military Technical Academy Ferdinand I, Romania	<i>Quantum High Secure Direct Communication with Authentication</i>
17 ⁰⁰	Răzvan STOLERIU Mihai TOGAN Military Technical Academy Ferdinand I, Romania	<i>A Secure Screen and App Lock System for Android Smart Phones Using Face Recognition</i>
17 ²⁰	Marius Iulian MIHĂILESCU Dapyx Solution, Romania Ştefania Loredana NIŢĂ University of Bucharest, Romania	<i>Three-factor Authentication Scheme Based on Searchable Encryption and Biometric Fingerprint</i>

SATELLITE AND SPACE COMMUNICATIONS

Friday, June 19th, 2020
16⁰⁰–17⁴⁰

Chairs:

Alexandru RUSU
 Politehnica University of Bucharest, *Romania*
Andrei ANGHEL
 Politehnica University of Bucharest, *Romania*

16⁰⁰	<p>Viorel BOSTAN Nicolae SECRIERU Valentin ILCO Vladimir MELNIC Alexei MARTINIUC Vladimir VĂRZARU</p> <p>Technical University of Moldova, <i>Moldova</i></p>	<p><i>TUMnanoSAT Nanosatellite and KiboCube Program</i></p>
16²⁰	<p>Kareem Abdulameer DIFAR Ali Hussein NEMA Moataz Jalil JASIM</p> <p>Ministry of Higher Education and Scientific Research, <i>Iraq</i></p> <p>Amer Abbood AL-BEHADILI Mustansiriyah University, <i>Iraq</i></p>	<p><i>Evaluation of the Strenght of Reflection and Dispersion of High Frequency in the Ionosphere by VOACAP Model</i></p>
16⁴⁰	<p>Victor Emil NEAGOE Paul DIACONESCU</p> <p>Politehnica University of Bucharest, <i>Romania</i></p>	<p><i>CNN Hyperspectral Image Classification Using Training Sample Augmentation with Generative Adversarial Networks</i></p>
17⁰⁰	<p>Teodor MITREA Vlad VASILE Monica BORDA</p> <p>Technical University of Cluj-Napoca, <i>Romania</i></p> <p>Corina NAFORNIȚĂ Politehnica University of Timișoara, <i>Romania</i></p> <p>Alexandru ROMANIUC Land Forces Academy, <i>Romania</i></p>	<p><i>Study of Attacks on Satellite Navigation System Receivers</i></p>
17²⁰	<p>Andra PĂSTRĂV Raluca SIMEDRONI Tudor PALADE Paul DOLEA</p> <p>Technical University of Cluj-Napoca, <i>Romania</i></p> <p>Dimitrie POPESCU Old Dominion University, <i>USA</i></p> <p>Emanuel PUȘCHIȚĂ Technical University of Cluj-Napoca, <i>Romania</i></p>	<p><i>Evaluation of UWB Transmission in Highly Reflective Environments</i></p>

Thursday, June 18th, 2020		
09.00-11.00	Opening session Sponsor presentation	
	Invited papers	
11.00-13.00	Signal Processing I	Communication Security I
13.40-14.00	Sponsor presentations	
14.00-16.00	Image Processing I	Wireless Communications
16.00-18.00	Vehicular Electronic Systems	Computational Intelligence
18.00-19.40	Natural Language and Speech Processing	Antennas and Propagation

Friday, June 19th, 2020		
09.00-11.00	Signal Processing II	Radio Communication Technologies
11.00-13.00	Image Processing II	Internet of Things
13.40-14.00	Sponsor presentations	
14.00-16.00	Electromagnetic Compatibility	Communication Networks and Systems
16.00-18.00	Communication Security II	Satellite and Space Communications

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