



*14<sup>th</sup> International Conference on*

# **COMMUNICATIONS 2022**

Organized by

**University “Politehnica” of Bucharest  
Military Technical Academy ‘Ferdinand I’**

Co-organized by

**Electronica 2000 Foundation**

Under the aegis of

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



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## Conference Program

<b>Thursday, June 16<sup>th</sup>, 2022</b>	
<b>09<sup>00</sup>–11<sup>00</sup></b>	<b>Opening Session</b> <b>Invited paper &amp; Gold Sponsor Presentation</b>
<b>09<sup>00</sup>–09<sup>10</sup></b>	<b><u>Conference Chairs</u></b> <b>Victor CROITORU</b> , University “Politehnica” of Bucharest, <i>Romania</i> <b>Ioan NICOLAESCU</b> , Military Technical Academy ‘Ferdinand I’, <i>Romania</i>
<b>09<sup>10</sup>–10<sup>10</sup></b>	<i>Network Softwarization: Developments and Challenges.</i> <b>Adrian POPESCU</b> , Blekinge Institute of Technology, <i>Sweden</i>
<b>10<sup>10</sup>–10<sup>40</sup></b>	<b>Sponsor Presentation</b> Orange Representative
<b>11<sup>00</sup>–13<sup>00</sup></b>	<b>Parallel Sessions</b>
<b>13<sup>00</sup>–13<sup>30</sup></b>	<b>Lunch</b>
<b>13<sup>30</sup>–14<sup>00</sup></b>	<b>Sponsor Presentations</b> <b><u>Chairs</u></b> <b>Amelia CIOBANU</b> , University “Politehnica” of Bucharest, <i>Romania</i>
<b>14<sup>00</sup>–20<sup>00</sup></b>	<b>Parallel Sessions</b>

**Friday, June 17<sup>th</sup>, 2022**

**09<sup>00</sup>–13<sup>00</sup>**

**Parallel Sessions**

**13<sup>00</sup>–13<sup>30</sup>**

**Lunch**

**13<sup>15</sup>–14<sup>00</sup>**

**Sponsor Presentations**

**Chairs**

**Petrică CIOTÎRNAE**, Military Technical Academy ‘Ferdinand I’, *Romania*

**Amelia CIOBANU**, University “Politehnica” of Bucharest, *Romania*

**14<sup>00</sup>–16<sup>00</sup>**

**Parallel Sessions**



## Parallel Sessions Schedule

### SIGNAL PROCESSING I

Thursday, June 16<sup>th</sup>, 2022

11<sup>00</sup>–13<sup>00</sup>

Chairs:

**Silviu CIOCHINĂ**

University "Politehnica" of Bucharest, Romania

**Ştefan-Adrian TOMA**

Military Technical Academy 'Ferdinand I', Romania

11 <sup>00</sup>	<p><b>Jacob BENESTY</b> INRS-EMT, University of Quebec, Canada</p> <p><b>Laura-Maria DOGARIU</b> <b>Constantin PALEOLOGU</b> <b>Silviu CIOCHINA</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Efficient Identification of Acoustic Linear Systems</i></p>
11 <sup>20</sup>	<p><b>Alexandru BOBARU</b> <b>Corina NAFORNITA</b> Politehnica University of Timisoara, Romania</p> <p><b>Vladimir Cristian VESA</b> Hella Romania, Romania</p>	<p><i>Unsupervised Online Horizontal Misalignment Detection Algorithm for Automotive Radar</i></p>
11 <sup>40</sup>	<p><b>Doru Florin CHIPER</b> <b>Arcadie CRACAN</b> Gheorghe Asachi Technical University of Iasi, Romania</p>	<p><i>A New Integer Algorithm for a VLSI Implementation of DCT Using Obfuscation Technique</i></p>
12 <sup>00</sup>	<p><b>Leontin TUTA</b> <b>Georgiana ROSU</b> <b>Cristina POPOVICI</b> Military Technical Academy Ferdinand I, Romania</p> <p><b>Ioan NICOLAESCU</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Real-Time EEG Data Processing Using Independent Component Analysis (ICA)</i></p>
12 <sup>20</sup>	<p><b>Deren DOGAN</b> <b>Yaser DALVEREN</b> Atilim University, Turkey</p> <p><b>Ali KARA</b> Gazi University, Turkey</p>	<p><i>A Mini-Review on Radio Frequency Fingerprinting Localization in Outdoor Environments: Recent Advances and Challenges</i></p>
12 <sup>40</sup>	<p><b>Sabin BELU</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Fast Canonical Huffman Decoder</i></p>

# COMMUNICATIONS SECURITY

Thursday, June 16<sup>th</sup>, 2022

11<sup>00</sup>–13<sup>00</sup>

Chairs:

**Paul COTAE**

University of the District of Columbia, *United States*

**Victor CROITORU**

University "Politehnica" of Bucharest, *Romania*

11 <sup>00</sup>	<b>Octavian CATRINA</b> <b>Radu Caius LUPU</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Experimental Analysis of Key Exchange Protocols Using the JAKE Framework</i>
11 <sup>20</sup>	<b>Octavian CATRINA</b> <b>Silvia-Ioana STANCIU</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Comparative Performance Evaluation of Key Exchange Protocols</i>
11 <sup>40</sup>	<b>Mihai ILIE</b> <b>Cristian RÎNCU</b> Military Technical Academy Ferdinand I, <i>Romania</i>	<i>Convergence and Security Improvements by Using Automation in DMVPN Networks</i>
12 <sup>00</sup>	<b>Pantelimon-Teodor TIVIG</b> <b>Șerban OBREJA</b> University "Politehnica" of Bucharest, <i>Romania</i> <b>Alexandru BRUMARU</b> SC Invite Systems SRL, <i>Romania</i>	<i>Creating Scalable Distributed Control Plane in SDN to Rule Out the Single Point of Failure</i>
12 <sup>20</sup>	<b>Stefania Loredana NITA</b> Institute for Computers, <i>Romania</i> <b>Marius Iulian MIHAILESCU</b> Spiru Haret University, <i>Romania</i>	<i>Fuel Monitoring System Based on IoT: Overview and Device Authentication</i>
12 <sup>40</sup>	<b>Rebecca ACHEAMPONG</b> <b>Titus C BALAN</b> <b>Alexandre REKERAOH</b> Transilvania University of Brasov, <i>Romania</i> <b>Dorin-Mircea POPOVICI</b> Ovidius University of Constanta, <i>Romania</i>	<i>Security Scenarios Automation and Deployment in Virtual Environment Using Ansible</i>

# WIRELESS COMMUNICATIONS

Thursday, June 16<sup>th</sup>, 2022

14<sup>00</sup>–15<sup>20</sup>

Chairs:

**Calin VLADEANU**

University "Politehnica" of Bucharest, *Romania*

**Angela DIGULESCU**

Military Technical Academy 'Ferdinand I', *Romania*

<b>14<sup>00</sup></b>	<b>Irina Petra MANCIU</b> <b>Dragos Ioan SACALEANU</b> <b>Lucian Andrei PERISOARA</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Evaluation of the Wireless Communication Protocols' Energy Efficiency for Versatile WSN Deployments</i>
<b>14<sup>20</sup></b>	<b>Ekaterina SVERTOKA</b> <b>Ion MARGHESCU</b> <b>Alexandru RUSU</b> University "Politehnica" of Bucharest, <i>Romania</i> <b>Radim BURGET</b> <b>Jiri HOSEK</b> <b>Pavel MASEK</b> Brno University of Technology, <i>Czech Republic</i> <b>Aleksandr OMETOV</b> Tampere University, <i>Finland</i>	<i>Evaluation of Real-Life LoRaWAN Localization: Accuracy Dependencies Analysis Based on Outdoor Measurement Datasets</i>
<b>14<sup>40</sup></b>	<b>Omer Mohammed Khodayer AL-DULAIMI</b> <b>Florin-Lucian CHIPER</b> <b>Calin VLADEANU</b> <b>Alexandru MARTIAN</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Triple-Threshold Energy Detection With Adaptive Intermediate Threshold for Cooperative Spectrum Sensing</i>
<b>15<sup>00</sup></b>	<b>Alexandru-Toma ANDREI</b> <b>Ovidiu GRIGORE</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Combating Deforestation Using Different AGNES Approaches</i>

# FIFTH GENERATION MOBILE NETWORKS

Thursday, June 16<sup>th</sup>, 2022

16<sup>00</sup>–17<sup>40</sup>

Chairs:

**Şerban OBREJA**

University "Politehnica" of Bucharest, Romania

**Line LARSEN,**

Technical University of Denmark, Denmark

16 <sup>00</sup>	<b>Saja Rasem ALDABES</b> <b>Farah HASAN</b> <b>Yanal FAOURI</b> University of Jordan, Jordan	<i>Special Shaped Compact Dual Ultra-Wideband Dielectric Resonator Antenna for Sub-6 GHz and Satellite Wireless Communications</i>
16 <sup>20</sup>	<b>Yazan Mohammad HYASAT</b> <b>Dia ABUALNADI</b> <b>Yanal FAOURI</b> University of Jordan, Jordan	<i>Two Elements Ultra Wideband MIMO Antenna for 5G Communications, WiFi-5 and WiFi-6 Applications</i>
16 <sup>40</sup>	<b>Oana-Mihaela UNGUREANU</b> <b>Calin VLADANU</b> University "Politehnica" of Bucharest, Romania	<i>Leveraging the Cloud-Native Approach for the Design of 5G NextGen Core Functions</i>
17 <sup>00</sup>	<b>Line LARSEN</b> <b>Sarah RUEPP</b> <b>Michael BERGER</b> Technical University of Denmark, Denmark <b>Henrik CHRISTIANSEN</b> TDC, Denmark	<i>RAN Design Guidelines for Energy Efficient 5G Mobile Xhaul Networks</i>
17 <sup>20</sup>	<b>Gordana Raluca BARB</b> <b>Cristina ANDRAS</b> <b>Cornel BALINT</b> Politehnica University of Timisoara, Romania	<i>Performance Analysis of Transport Layer Congestion on 5G Systems</i>

# COMPUTATIONAL INTELLIGENCE

Thursday, June 16<sup>th</sup>, 2022  
16<sup>00</sup>–18<sup>00</sup>

**Chairs:**

**Dimitrie POPESCU**

Old Dominion University, USA

**Radu DOGARU**

University "Politehnica" of Bucharest, Romania

16 <sup>00</sup>	<b>Radu DOGARU</b> <b>Adrian MIRICA</b> <b>Ioana DOGARU</b> University "Politehnica" of Bucharest, Romania	<i>The C-CNN Model: Do We Really Need Multiplicative Synapses in Convolutional Neural Networks?</i>
16 <sup>20</sup>	<b>Alina Florina GLAVAN</b> <b>Victor CROITORU</b> University "Politehnica" of Bucharest, Romania	<i>Cloud Environment Assessment Using Clustering Techniques on Microservices Dataset</i>
16 <sup>40</sup>	<b>James LATSHAW</b> <b>Dimitrie POPESCU</b> <b>John SNOAP</b> Old Dominion University, USA <b>Chad SPOONER</b> NorthWest Research Associates, USA	<i>Using Capsule Networks to Classify Digitally Modulated Signals With Raw I/Q Data</i>
17 <sup>00</sup>	<b>Rodica Paula COTA</b> <b>Daniel ZINCA</b> Technical University of Cluj-Napoca, Romania	<i>Comparative Results of Spam Email Detection Using Machine Learning Algorithms</i>
17 <sup>20</sup>	<b>Maria ONIGA</b> <b>Razvan MICU</b> <b>Andreea GRIPARIS</b> University "Politehnica" of Bucharest, Romania	<i>Deep Neural Networks for Classification of Dermatological Images With Multiple Skin Lesions</i>
17 <sup>40</sup>	<b>Ionuț-Alexandru GÎRLĂ</b> <b>Victor-Emil NEAGOE</b> University "Politehnica" of Bucharest, Romania	<i>A Weakly-Supervised Change Detection for Multispectral Earth Observation Imagery Using a Long Short-Term Memory Classifier With a Virtual Training Data Neural Generator</i>

# ELECTROMAGNETIC COMPATIBILITY

Thursday, June 16<sup>th</sup>, 2022  
18<sup>00</sup>–20<sup>00</sup>

**Chairs:**

**Simona HALUNGA**

University "Politehnica" of Bucharest, Romania

**Leontin TUȚĂ**

Military Technical Academy 'Ferdinand I', Romania

18 <sup>00</sup>	<b>Mircea NICOLAESCU</b> <b>Victor CROITORU</b> University "Politehnica" of Bucharest, Romania <b>Leontin TUTA</b> Military Technical Academy Ferdinand I, Romania	<i>Radiated Fields by Vias and Matched Microstrip Traces in High Speed PCBs</i>
18 <sup>20</sup>	<b>Grigore Robert MUJA</b> <b>Andrei ANGHEL</b> <b>Silviu CIOCHINA</b> <b>Remus CACOVEANU</b> University "Politehnica" of Bucharest, Romania	<i>Assessment of RF Interference Mitigation Methods for Automotive Radars Using Real Data</i>
18 <sup>40</sup>	<b>Mircea NICOLAESCU</b> <b>Victor CROITORU</b> University "Politehnica" of Bucharest, Romania <b>Leontin TUTA</b> Military Technical Academy Ferdinand I, Romania	<i>Microstrip Differential Pair Full Wave Electromagnetic Analysis</i>
19 <sup>00</sup>	<b>Ioan DUMA</b> <b>Teodora STOIAN</b> <b>Robert DOBRE</b> University "Politehnica" of Bucharest, Romania	<i>Backscattering Applications in Loop Make-Up Identification via Spectral Decomposition Methods</i>
19 <sup>20</sup>	<b>Alexandru TATOMIRESCU</b> <b>Alexandru RUSU</b> University "Politehnica" of Bucharest, Romania	<i>C Band FMCW Radar Receiver Architecture for Space Debris Observation</i>
19 <sup>40</sup>	<b>Maria DRAGAN</b> <b>Diana BRÎNARU</b> <b>Simona HALUNGA</b> University "Politehnica" of Bucharest, Romania	<i>Constraints of Fiber Weave Effect on High-Speed Circuits</i>

# ANTENNAS AND PROPAGATION

Thursday, June 16<sup>th</sup>, 2022

18<sup>00</sup>–19<sup>40</sup>

Chairs:

**Ion BOGDAN**

Gheorghe Asachi Technical University, *Romania*

**Ioan NICOLAESCU**

Military Technical Academy 'Ferdinand I', *Romania*

18 <sup>00</sup>	<p><b>Alexandru ALOMAN</b> <b>Nicusor DRUTA</b> <b>Ioan NICOLAESCU</b> Military Technical Academy Ferdinand I, <i>Romania</i></p> <p><b>Miguel POVEDA-GARCÍA</b> Technical University of Cartagena, <i>Spain</i></p> <p><b>Valentin GRECU</b> The Special Telecommunications Service, <i>Romania</i></p>	<p><i>Analysis and Design of a Helical Leaky-Wave Antenna for Satellite Communications</i></p>
18 <sup>20</sup>	<p><b>Farah HASAN</b> <b>Saja Rasem ALDABES</b> <b>Yanal S FAOURI</b> The University of Jordan, <i>Jordan</i></p>	<p><i>Multi Wideband Stacked Cylindrical-Rectangular DRA for S, C, X, and Ku Applications</i></p>
18 <sup>40</sup>	<p><b>Robert WÜNSCHE</b> <b>Marco KRONDORF</b> HTWK Leipzig, <i>Germany</i></p>	<p><i>Neural Network Based LEO Phased Array Antenna Gain Loss Prediction</i></p>
19 <sup>00</sup>	<p><b>Alexandru RUSU</b> <b>Calin BIRA</b> University "Politehnica" of Bucharest, <i>Romania</i></p>	<p><i>Dataset of Spatial Objects Acquired Using Romania's First Ground-Based Space Tracking Radar</i></p>
19 <sup>20</sup>	<p><b>Mircea NICOLAESCU</b> <b>Paul SVASTA</b> University "Politehnica" of Bucharest, <i>Romania</i></p> <p><b>Mihai ENACHE</b> Military Equipment and Technologies Research Agency, <i>Romania</i></p>	<p><i>Full Wave Electromagnetic Analysis of Coupling in High Speed Microstrip Single Ended Lines With Different Separations</i></p>

## SIGNAL PROCESSING II

Friday, June 17<sup>th</sup>, 2022

09<sup>00</sup>–11<sup>00</sup>

Chairs:

**Vincent CHOQUEUSE**

ENIB / CNRS UMR6285 Lab-STICC, France

**Radu PREDA**

University "Politehnica" of Bucharest, Romania

09 <sup>00</sup>	<p><b>Cristian MANOLACHE</b> <b>Horia CUCU</b> University "Politehnica" of Bucharest, Romania</p> <p><b>Mihai BOLDEANU</b> National Institute of Research and Development for Optoelectronics, Romania</p> <p><b>Camelia TALIANU</b> INOE 2000, Romania</p>	<p><i>Unsupervised Deep Learning Models for Aerosol Layers Segmentation</i></p>
09 <sup>20</sup>	<p><b>Adina Elena LUPU (BLAJ)</b> <b>Tudor BLAJ</b> <b>Adriana VLAD</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Cryptographic Mixing Transformations and Message Embedding in Chaotic Systems</i></p>
09 <sup>40</sup>	<p><b>Dominic CHEROIU</b> <b>Mircea RADUCANU</b> <b>Corina MACOVEI</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Fast Image Encryption Algorithm Based on Multiple Chaotic Maps</i></p>
10 <sup>00</sup>	<p><b>Radu PREDA</b> <b>Robert DOBRE</b> <b>Radu BADEA</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Performance Evaluation of a Visible Light Communication System for Indoor Navigation</i></p>
10 <sup>20</sup>	<p><b>Alexandru DINU</b> <b>Adriana VLAD</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Revisiting the Idea of a Representative Linguistic Corpus</i></p>
10 <sup>40</sup>	<p><b>Alexandru FRUNZA</b> <b>Vincent CHOQUEUSE</b> <b>Pascal MOREL</b> <b>Stéphane AZOU</b> ENIB / CNRS UMR6285 Lab-STICC, France</p> <p><b>Alexandru ȘERBĂNESCU</b> Military Technical Academy Ferdinand I, Romania</p>	<p><i>A Comparative Study on Global Compensation Techniques for Coherent Optical Communications</i></p>



# RADIO COMMUNICATION TECHNOLOGIES

Friday, June 17<sup>th</sup>, 2022  
09<sup>00</sup>–11<sup>00</sup>

Chairs:

**Ion MARGHESCU**

University "Politehnica" of Bucharest, Romania

**Cristian PATACHIA – SULTANOIU**

Orange Romania SA, Romania

09 <sup>00</sup>	<p><b>Zheng ZHANG</b> <b>Fang XU</b> <b>Jing ZHAO</b> Beijing Fibrlink Communications Co., Ltd, China</p> <p><b>Qiqi XIAO</b> <b>Jiantao YUAN</b> <b>Rui YIN</b> Zhejiang University City College, China</p>	<p><i>Threshold Optimization in Energy Detection for Full-Duplex Systems</i></p>
09 <sup>20</sup>	<p><b>Gergely HOLLÓSI</b> Budapest University of Technology and Economics, Hungary</p>	<p><i>Distribution of Ultra Wideband (UWB) Receive Timestamps in Dense Indoor Environment Based on the Saleh-Valenzuela Channel Model</i></p>
09 <sup>40</sup>	<p><b>Florin-Lucian CHIPER</b> <b>Alexandru MARTIAN</b> <b>Daniel-Ionut MUSCALU</b> <b>Calin VLADANU</b> <b>Ion MARGHESCU</b> University "Politehnica" of Bucharest, Romania</p>	<p><i>Aerial Drone Defense System Based on Software Defined Radio Platforms</i></p>
10 <sup>00</sup>	<p><b>Razvan LAZAR</b> <b>Constantin CARUNTU</b> Gheorghe Asachi Technical University of Iasi, Romania</p> <p><b>Cristian PATACHIA – SULTANOIU</b> Orange Romania SA, Romania</p>	<p><i>Simulated and Practical Approach to Assess the Reliability of the 5G Communications for the Uu Interface</i></p>
10 <sup>20</sup>	<p><b>Ana GHIULAI</b> <b>Gordana Raluca BARB</b> <b>Florin ALEXA</b> <b>Marius OTESTEANU</b> Politehnica University of Timisoara, Romania</p>	<p><i>Downlink Interference Measurement in 4G/5G Systems With Dynamic Spectrum Sharing</i></p>
10 <sup>40</sup>	<p><b>Nicolae Valentin RUSU</b> <b>Silvia DUMITRACHE</b> <b>Marian ALEXANDRU</b> Transilvania University of Brasov, Romania</p>	<p><i>Software Defined Communications Platform</i></p>

# ELECTRONIC SYSTEMS DESIGN

Friday, June 17<sup>th</sup>, 2022

11<sup>00</sup>–12<sup>20</sup>

Chairs:

**Calin BÎRĂ**

University "Politehnica" of Bucharest, Romania

**Radu HOBINCU**

University "Politehnica" of Bucharest, Romania

<b>11<sup>00</sup></b>	<b>Eugen Ioan POP</b> University "Politehnica" of Bucharest, Romania <b>Daniela GIFU</b> Alexandru Ioan Cuza University, Romania	<i>An e-Business Services Composition Framework</i>
<b>11<sup>20</sup></b>	<b>Catalin PESCARI</b> <b>Andrei SILAGHI</b> <b>Aldo De SABATA</b> <b>Ciprian BLEOJU</b> Politehnica University of Timisoara, Romania	<i>On Using EMC Simulation for Solving Power Integrity Issues</i>
<b>11<sup>40</sup></b>	<b>George-Vlăduț POPESCU</b> <b>Calin BIRA</b> University "Politehnica" of Bucharest, Romania	<i>Python-Based Programming Framework for a Heterogeneous Map-Reduce Architecture</i>
<b>12<sup>00</sup></b>	<b>George-Vlăduț POPESCU</b> <b>Radu HOBINCU</b> University "Politehnica" of Bucharest, Romania	<i>Open-Source, Modular, Graphical FPGA Board-Level Simulator</i>

# INTERNET OF THINGS

Friday, June 17<sup>th</sup>, 2022

11<sup>00</sup>–12<sup>40</sup>

Chairs:

**Emanuel RĂDOI**

University of Brest, *France*

**Sorin ZOICAN**

University "Politehnica" of Bucharest, Romania

11 <sup>00</sup>	<b>Sorin ZOICAN</b> <b>Marius Constantin VOCHIN</b> <b>Roxana ZOICAN</b> <b>Dan GALATCHI</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Neural Network Testing Framework for Microcontrollers</i>
11 <sup>20</sup>	<b>Husam Mahdi AL-ALWASH</b> <b>Eugen BORCOCI</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Optimal Charging Scheme for Electric Vehicles (EVs) in SDN-Based Vehicular Network, Scheduling and Routing</i>
11 <sup>40</sup>	<b>Seyed Salar SEFATI</b> <b>Simona HALUNGA</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Data Forwarding to FoG With Guaranteed Fault Tolerance in Internet of Things (IoT)</i>
12 <sup>00</sup>	<b>Florin RASTOCEANU</b> Romanian Ministry of Defense, <i>Romania</i> <b>Razvan RUGHINIS</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Blockchain Solution for Securing Fog-Computing Communications in IoT Applications</i>
12 <sup>20</sup>	<b>Lucian Andrei PERISOARA</b> <b>Dragos Ioan SACALEANU</b> <b>Cosmin DANISOR</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Automotive Ethernet Architecture for the Connected Dacia Logan Electric Vehicle</i>

# COMMUNICATION NETWORKS AND SYSTEMS

Friday, June 17<sup>th</sup>, 2022

14<sup>00</sup>–16<sup>00</sup>

Chairs:

**Ramona TRESTIAN**

Middlesex University, *United Kingdom*

**Radu BADEA**

University "Politehnica" of Bucharest, Romania

14 <sup>00</sup>	<b>Adriana-Elena RADOI</b> <b>Cristian-Iulian RINCU</b> Military Technical Academy Ferdinand I, Romania	<i>Integration of Data Center Network Technologies</i> <i>VxLAN, BGP, EVPN</i>
14 <sup>20</sup>	<b>Ahmed AL-JAWAD</b> <b>Purav SHAH</b> <b>Ramona TRESTIAN</b> Middlesex University, <i>United Kingdom</i> <b>Ioan-Sorin COMȘA</b> Swiss Distance University of Applied Sciences, <i>Switzerland</i>	<i>LearnSDN: Optimizing Routing Over Multimedia-Based</i> <i>5G-SDN Using Machine Learning</i>
14 <sup>40</sup>	<b>Robert BOTEZ</b> <b>Catalin-Marian PETRUTI</b> <b>Iustin-Alexandru IVANCIU</b> <b>Virgil DOBROTA</b> Technical University of Cluj-Napoca, <i>Romania</i>	<i>Kubernetes-Based Load Balancer as a Service for</i> <i>Private Cloud Infrastructures</i>
15 <sup>00</sup>	<b>Ramona TRESTIAN</b> Middlesex University, <i>United Kingdom</i> <b>Edoardo CELESTE</b> <b>Guodong XIE</b> <b>Pintu LOHAR</b> <b>Malika BENDECHACHE</b> <b>Rob BRENNAN</b> Dublin City University, <i>Ireland</i>	<i>The Privacy Paradox - Investigating People's Attitude</i> <i>Towards Privacy in a Time of COVID-19</i>
15 <sup>20</sup>	<b>Cătălin RIZEA</b> <b>Calin BIRA</b> <b>Mihai STANCIU</b> University "Politehnica" of Bucharest, <i>Romania</i>	<i>Robust Steganographic Algorithm Based on Wavelet</i> <i>Transform</i>

## Workshops Schedule

### 1<sup>ST</sup> INTERNATIONAL WORKSHOP ON COMMUNICATION TECHNOLOGY AND SECURITY IN SMART GRID (CTSS)

**Thursday, June 16<sup>th</sup>, 2022**

**11<sup>00</sup>-12<sup>40</sup>**

**Chairs:**

**Alexandru VULPE**

University "Politehnica" of Bucharest, *Romania*

**Marius VOCHIN**

University "Politehnica" of Bucharest, *Romania*

<b>11<sup>00</sup></b>	<p><b>Kanar Alaa AL-SAMMAK, Ka.</b> <b>Sama Hussein AL-GBURI, Sa.</b> <b>Ion MARGHESCU</b> University "Politehnica" of Bucharest, <i>Romania</i></p>	<p><i>Systems in Smart Metering: A Concise Systematic Literature Review</i></p>
<b>11<sup>20</sup></b>	<p><b>Cristian-Alexandru TĂNASE</b> <b>Alexandru VULPE</b> University "Politehnica" of Bucharest, <i>Romania</i></p>	<p><i>Indoor Location Monitoring and Navigation System for Hospitals</i></p>
<b>11<sup>40</sup></b>	<p><b>Marios KARATISOGLOU</b> <b>Aristeidis FARAO</b> <b>Vaios BOLGOURAS</b> <b>Christos XENAKIS</b> University of Piraeus, <i>Greece</i></p>	<p><i>BRIDGE: BRIDging the Gap bEtween CTI Production and Consumption</i></p>
<b>12<sup>00</sup></b>	<p><b>Cosmin CONTU</b> <b>Andra CIOBANU</b> <b>Eugen BORCOCI</b> <b>Marius Constantin VOCHIN</b> University "Politehnica" of Bucharest, <i>Romania</i> <b>Frank Y. LI</b> University of Agder, <i>Norway</i></p>	<p><i>An Automation Platform for Slice Creation Using Open Source MANO</i></p>
<b>12<sup>20</sup></b>	<p><b>Cristian PATACHIA – SULTANOIU</b> <b>Marius IORDACHE</b> <b>Bogdan RUSTI</b> <b>Oana BADITA</b> Orange Romania SA, <i>Romania</i> <b>Konstantinos TRICHAS</b> Wings ICT Solutions, <i>Greece</i> <b>Juan BRENES</b> Nextworks, <i>Italy</i></p>	<p><i>5G Open Testbeds and Infrastructure Extensions for NetApps Advanced Experiments</i></p>

# 4<sup>TH</sup> INTERNATIONAL WORKSHOP ON RESEARCH & INNOVATION FOR SECURE SOCIETIES (RISS)

Thursday, June 16<sup>th</sup>, 2022  
14<sup>00</sup>–16<sup>20</sup>

Chairs:

**Bogdan IONESCU**

University "Politehnica" of Bucharest, Romania

**Mihai DOGARIU**

University "Politehnica" of Bucharest, Romania

14 <sup>00</sup>	<b>Florin RASTOCEANU</b> <b>Constantin GROZEA</b> Romanian Ministry of Defense, Romania <b>Daniel HRITCU</b> <b>Marilena LAZAR</b> Military Equipment and Technologies Research Agency, Romania	<i>Securing Personal Data in a Video Identification System</i>
14 <sup>20</sup>	<b>Paul IROFTI</b> <b>Andrei-Mihai PATRASCU</b> <b>Andrei HIJI</b> University of Bucharest, Romania	<i>Unsupervised Abnormal Traffic Detection Through Topological Flow Analysis</i>
14 <sup>40</sup>	<b>Roxana MIHAESCU</b> <b>Serban CARATA</b> <b>Mihai CHINDEA</b> <b>Marian GHENESCU</b> Softrust, Romania	<i>Long Range Thermal Image Object Recognition for Perimeter Security</i>
15 <sup>00</sup>	<b>Mihai Gabriel CONSTANTIN</b> <b>Bogdan IONESCU</b> University "Politehnica" of Bucharest, Romania	<i>Two-Stage Spatio-Temporal Vision Transformer for the Detection of Violent Scenes</i>
15 <sup>20</sup>	<b>Melisa UNSALAN</b> <b>Anamaria RADOI</b> University "Politehnica" of Bucharest, Romania <b>Mihai DATCU</b> German Aerospace Center, Germany	<i>SAR Image Classification Using Mixed Spatial-Spectral Information and Pre-Trained Convolutional Neural Networks</i>
15 <sup>40</sup>	<b>Andrei - Cosmin JITARU</b> <b>Bogdan IONESCU</b> University "Politehnica" of Bucharest, Romania <b>Cosmina - Elena BARBU</b> Military Equipment and Technologies Research Agency, Romania	<i>Deep Learning-Based Object Searching and Reporting for Aerial Surveillance Systems</i>
16 <sup>00</sup>	<b>Andrei-Marius AVRAM</b> <b>Mihai-Virgil NICHITA</b> <b>Razvan BARTUSICA</b> <b>Mădălin-Virgil MIHAI</b> The Special Telecommunication Service, Romania	<i>RoSAC: A Speech Corpus for Transcribing Romanian Emergency Calls</i>



	<b>Thursday, June 16<sup>th</sup>, 2022</b>			<b>Friday, June 17<sup>th</sup>, 2022</b>	
<b>09.00-11.00</b>	<b>Opening session Invited papers</b>			<b>Signal Processing II</b>	<b>Radio Communication Technologies</b>
	<b>Sponsor presentation</b>				
<b>11.00-13.00</b>	<b>Signal Processing I</b>	<b>Communication s Security</b>	<b>1<sup>st</sup> International Workshop On CTSS</b>	<b>Electronic Systems Design</b>	<b>Internet of Things</b>
<b>13.30-14.00</b>	<b>Sponsors presentations</b>			<b>Sponsors presentations</b>	
<b>14.00-16.00</b>	<b>Wireless Communications</b>		<b>4<sup>th</sup> International Workshop On RISS</b>	<b>Communication Networks and Systems</b>	
<b>16.00-18.00</b>	<b>Fifth Generation Mobile Networks</b>		<b>Computational Intelligence</b>		
<b>18.00-20.00</b>	<b>Electromagnetic compatibility</b>		<b>Antennas and Propagation</b>		



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