



# COMM2026

## The 16<sup>th</sup> International Conference on COMMUNICATIONS

28-29 May, Bucharest, Romania



# IEEE





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

# **COMMUNICATIONS 2026**

**Anniversary Edition: 30 years since the first edition in 1996.**

Organized by

**Military Technical Academy 'Ferdinand I'**

**National University of Science and Technology POLITEHNICA  
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**C**  **MM2026**

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# Conference Program

**Thursday, May 28<sup>th</sup>, 2026**

09:00–  
09:30

## **Participants Registration**

Palatul Cercului Militar Național, Entrance : Constantin Mille Street, *First-Floor Lobby*

## **Welcome Speeches**

*Entrance: Constantin Mille Street, First-Floor, Room: Marmură*

09:30–  
09:40

## **Conference Chairs**

**Ștefan-Adrian TOMA**, Military Technical Academy ‘Ferdinand I’, *Romania*

**Șerban Georgică OBREJA**, National University of Science and Technology Politehnica Bucharest, *Romania*

## **Opening Speeches**

*Entrance: Constantin Mille Street, First-Floor, Room: Marmură*

09:40–  
10:00

**Constantin Iulian VIZITIU**, Rector of Military Technical Academy ‘Ferdinand I’, *Romania*

**Ioan NICOLAESCU**, Military Technical Academy ‘Ferdinand I’, *Romania*

**Victor CROITORU**, National University of Science and Technology Politehnica Bucharest, *Romania*

## **Invited Papers**

*Entrance: Constantin Mille Street, First-Floor, Room: Marmură*

## Invited Papers

*Entrance: Constantin Mille Street, First-Floor,  
Room: Marmură*

### Chairs

**Ștefan – Adrian TOMA**, Military Technical Academy  
'Ferdinand I', *Romania*

**Sorin ZOICAN**, National University of Science and  
Technology Politehnica Bucharest, *Romania*

10:00-  
10:30

### **Scalable and Energy Efficient Hybrid SMF/FSO-Based Fault Resilient Optical Access Network**

Durgesh Kumar; Amit Kumar Garg; **Vijay Janyani**  
Malaviya National Institute of Technology Jaipur, India

10:30-  
11:00

### **Advanced Technologies in Antenna Measurements: How to Combine the Reduction of Measurement Time with High Accuracy of the Antenna Measurement Processes?**

**Manuel Sierra Castañer**, Escuela Técnica Superior de  
Ingenieros de Telecomunicación (ETSIT) - Politehnica  
Madrid, Spain

### **Coffee Break and Exhibition**

11:00-  
11:30

Palatul Cercului Militar Național, Entrance : Constantin  
Mille Street,  
*Entrance: Constantin Mille St. / Regina Elisabeta  
Blvd.,  
Lower ground floor, Room: Bizantină*

## Invited Paper

Entrance: Constantin Mille St., First-Floor, Room:  
Marmură

### Chairs

**Ștefan – Adrian TOMA**, Military Technical Academy  
'Ferdinand I', Romania

**Sorin ZOICAN**, National University of Science and  
Technology Politehnica Bucharest, Romania

11:30-  
12:00

### **Computer Vision, Machine Learning/AI and Robotics in Planetary Science and Exploration**

**Ara Nefian**, Tech Lead and Staff Engineer at Sairdrone,  
NASA, USA

## Sponsors Presentations

Entrance: Constantin Mille St., First-Floor,  
Room: Marmură

### Chairs

**Petrică CIOTÎRNAE**, Military Technical Academy 'Ferdinand  
I', Romania

**Octaviana DATCU**, National University of Science and  
Technology Politehnica Bucharest, Romania

12:00-  
12:30

### **Dual-Use Technologies Research and Innovation**

**Cristian PATACHIA – SULTANOIU, Răzvan MIHAI**  
Orange Romania S.A.

12:30-  
12:45

**RomTek Electronics S.R.L.**

12:45-  
13:00

**Prysmian Cabluri și Sisteme S.A.**

13:00-  
14:00

**Lunch**

	<p><i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i></p> <p style="text-align: center;"><b>Parallel Sessions</b></p>	
14:00– 16:20	<p><b>Special session: AOCN - Advanced Optical Communications Systems and Networks</b></p> <p><i>Entrance: Regina Elisabeta Blvd, First-Floor, Room: Norwegiană</i></p>	<p><b>Special session: Signal Processing &amp; AI facing the current industrial challenges</b></p> <p><i>Entrance: Regina Elisabeta Blvd, Ground Floor, Room: Spectacole</i></p>
16:00– 17:00	<p style="text-align: center;"><b>Exhibition and Poster Session</b></p> <p><i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i></p>	
16:00– 17:00	<p style="text-align: center;"><b>Coffee Break</b></p> <p><i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i></p> <p style="text-align: center;"><b>Parallel Sessions</b></p>	
17:00– 19:00	<p><b>Next-Generation Communications &amp; Adaptive Systems</b></p> <p><i>Entrance: Regina Elisabeta Blvd, First-Floor, Room: Norwegiană</i></p>	<p><b>Communication and Information Systems Security</b></p> <p><i>Entrance: Regina Elisabeta Blvd, Ground Floor, Room: Spectacole</i></p>
19:00– 21:00	<p style="text-align: center;"><b>Gala Dinner</b></p> <p><i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i></p>	

## Friday, May 29th, 2026

### Parallel Sessions

09:00– 11:00	<b>Autonomous Systems, UAVs &amp; Intelligent Sensing</b> <i>Entrance: Regina Elisabeta Blvd, First- Floor, Room: Norvegiană</i>	<b>Session 1 –Workshop on Research &amp; Innovation for Secure Societies (RISS)</b> <i>Entrance: Regina Elisabeta Blvd, Ground Floor, Room: Spectacole</i>
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### Exhibition and Poster Session

11:00– 11:30	<i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i>	
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### Coffee Break

11:00– 11:30	<i>Entrance: Constantin Mille St. / Regina Elisabeta Blvd., Lower ground floor, Room: Bizantină</i>	
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### Parallel Sessions

11:30– 13:30	<b>Artificial Intelligence</b> <i>Entrance: Regina Elisabeta Blvd, First- Floor, Room: Norvegiană</i>	<b>Session 2 – Workshop on Research &amp; Innovation for Secure Societies (RISS)</b> <i>Entrance: Regina Elisabeta Blvd, Ground Floor, Room: Spectacole</i>
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### Closing Session, Best Paper and Diploma of Appreciation Awards

13:30– 14:00	<i>Entrance: Regina Elisabeta Blvd, Ground Floor, Room: Spectacole</i>	
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# Activities Schedule

May 28 <sup>th</sup>	Marmură	Norvegiană	Spectacole	Bizantină
09:30 -10:00	Welcome and Opening Speeches			
10:00 - 11:00	Invited Paper			
11:00 - 11:30				Exhibition Coffee Break
11:30 - 12:00	Invited Paper			
12:00 - 13:00	Sponsor Presentation			
13:00 - 14:00				Lunch
14:00 – 16:20	Advanced Optical Communications Systems and Networks		Signal Processing & AI Facing the Current Industrial Challenge	
16:00 – 17:00				Poster Session Coffee Break

<b>May 28<sup>th</sup></b>	<b>Marmură</b>	<b>Norvegiană</b>	<b>Spectacole</b>	<b>Bizantină</b>
17:00 – 19:00		Next-Generation Communications & Adaptive Systems	Communication and Information Systems Security	
19:00 – 21:00				Gala Dinner
<b>May 29<sup>th</sup>, 2026</b>	<b>Marmură</b>	<b>Norvegiană</b>	<b>Spectacole</b>	<b>Bizantină</b>
09:00-11:00		Autonomous Systems, UAVs & Intelligent Sensing	Workshop on Research & Innovation for Secure Societies	
11:00-11:30				Poster Session RISS Coffee Break
11:30 – 13:30		Artificial Intelligence	Workshop on Research & Innovation for Secure Societies	
13:30 – 14:00				Closing Session

# Special Sessions

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## AOCN - Advanced Optical Communications Systems and Networks

May 28<sup>th</sup>, 14:00 – 16:20

Entrance: Regina Elisabeta Blvd, First-Floor, Room:  
*Norvegiană*

*Session  
Chairs*

*Virginia ZETU  
FiberCon, Romania  
Ramona GĂLĂTUȘ*

*Technical University of Cluj-Napoca,  
Romania*

14:00

**Distributed Acoustic Sensing (DAS): A Tutorial for  
Defense and Security Applications**

*Buccheri Fabrizio*

Prysmian Cabluri și Sisteme S.A., Romania

14:20

**Mitigating Phase Jumps in Coherent Optical Constant-  
Envelope OFDM Systems Using Derivative-Based  
Clipping**

*Hourzadehgharabolagh Zahra<sup>1,2</sup>, Vincent Choqueuse<sup>1,2</sup>,  
Pascal Morel<sup>1,2</sup>, Mihai Telescu<sup>1</sup>, Noel Tanguy<sup>1</sup>, Stéphane  
Azo<sup>2</sup>*

<sup>1</sup> University of Brest, CNRS/Lab-STICC, Brest, France

<sup>2</sup> Ecole Nationale d'Ingénieurs de Brest (ENIB), Bretagne INP, France

14:40

Performance Analysis of Hybrid 5G-FSO  
Communications in UAV Swarms *Annamaria Sârbu<sup>1</sup>;*

*Mirela Şorecău<sup>1</sup>; Emil Şorecău<sup>1</sup>; Kevin Tebbe<sup>2</sup>*

<sup>1</sup>Land Forces Academy Nicolae Bălcescu Sibiu, Romania

<sup>2</sup>Helmut Schmidt University, Germany

15:00

Fluorescence-Based Detection of  $\pi$ -Deficient  
Trinitrotoluene-like Matrix with Portable Spectrometric  
Platform

*Tosa Nicoleta<sup>1</sup>; Ramona V. Galatus<sup>2</sup>*

<sup>1</sup>National Institute for Research and Development of Isotopic and  
Molecular Technologies, Romania

<sup>2</sup>Technical University of Cluj-Napoca, Romania

15:20

Oversampling Interpolation Strategies for Digital-to-  
Analog Conversion of Asymmetrically Clipped FSK  
Unipolar Modulations

*Clara Chateigner<sup>1</sup>; Yannis Le Guennec<sup>1,2</sup>; Cyrille Siclet<sup>1</sup>;*  
*Laurent Ros<sup>1,2</sup>*

<sup>1</sup> University Grenoble Alpes, Gipsa-Lab, France

<sup>2</sup>CNRS, Grenoble INP

15:40

Structural Vibration Assessment of Microduct Fiber-  
Optic Tubing Using Fiber Bragg Grating Sensing and  
Portable Optical Interrogation

*Ramona V. Galatus<sup>1</sup>; Bornea Ci Andra<sup>1</sup>; Zetu Virginia<sup>2</sup>;*  
*Ovidiu Buza<sup>1</sup>; Damien Kinet<sup>3</sup>*

<sup>1</sup> Technical University of Cluj-Napoca, Romania

<sup>2</sup> FiberCon, Romania

<sup>3</sup>University of Mons, Belgium

Performance and Step Size Sensitivity Analysis of  
Polarization-Tracking Algorithms in Coherent Optical  
Systems

*Cojocaru Valeria<sup>1</sup>; Alexandru Frunza<sup>1</sup>; Vincent  
Choqueuse<sup>2</sup>; Stéphane Azou<sup>2</sup>*

16:00

<sup>1</sup>Military Technical Academy Ferdinand I, Bucharest, Romania

<sup>2</sup>CNRS/Lab-STICC & Ecole Nationale d'Ingénieurs de Brest (ENIB),  
France

# Signal Processing & AI Facing the Current Industrial Challenge

May 28th, 14:00 – 16:20

Entrance: Regina Elisabeta Blvd, Ground Floor,  
Room: Spectacole

Session  
Chairs

*Dragoş NASTASIU*  
*Cristina DESPINA-STOIAN*  
*Military Technical Academy Ferdinand I,*  
*Bucharest, Romania*

14:00

Fault Managed Power: Enabling Modern  
Communications Infrastructure

*Luigi Russo*

Prysmian Cabluri și Sisteme S.A., Romania

14:20

Experimental Facility for Electrical Transient Generator  
from AI Perspective

*Lecourt Camille<sup>1</sup>; Mihai-Cristian Naltu<sup>2</sup>; Noredine  
Hadjsaid<sup>1</sup>; Gerald Gan<sup>3</sup>; Jeremy Gan<sup>3</sup>; Low Yu Ber<sup>3</sup>*

<sup>1</sup> Grenoble Institute of Technology, France

<sup>2</sup> National University of Science and Technology Politehnica  
Bucharest, Romania

<sup>3</sup> AEG Singapore, Singapore

14:40

Machine Learning-Assisted Operation Monitoring  
Analytics on a Hydro Power Plant

*Ahungwa Gregory Ahungwa<sup>1</sup>; Cornel Ioana<sup>1</sup>; Vincent  
Bouillet<sup>2</sup>*

<sup>1</sup>Grenoble Institute of Technology, France

<sup>2</sup> SuperGrid-Institute, France

- 15:00 **Transients Classification in Power Cable Monitoring  
Based on a Tridiagonal Hermite Transform**  
*Đorđe Stanković<sup>1</sup>; Anđjela Draganić<sup>1</sup>; Xiumei Li<sup>2</sup>; Cornel  
Ioana<sup>3</sup>; Irena Orović<sup>1</sup>*  
<sup>1</sup>University of Montenegro, Montenegro  
<sup>2</sup> Hangzhou Normal University, China  
<sup>3</sup>Institute National Polytechnique de Grenoble, France
- 15:20 **Ultrasonic Signal-Based Efficiency Estimation of Double-  
Regulated Hydraulic Turbines**  
*Marius Nati<sup>1</sup>; Angela Digulescu<sup>1</sup>; Carmen Badina<sup>2</sup>; Yanis  
Hadj Said<sup>3</sup>*  
<sup>1</sup> Military Technical Academy Ferdinand I, Bucharest, Romania  
<sup>2</sup> EDF-DTG, France  
<sup>3</sup>Altrans Energies, France
- 15:40 **Generative and Model-Informed Learning for Position-  
Aware Partial Discharge Monitoring**  
*Dragoș Nastasiu<sup>1</sup>; Denis Stanescu<sup>1</sup>; Angela Digulescu<sup>1</sup>;  
Cristina Despina-Stoian<sup>1</sup>; Cornel Ioana<sup>2</sup>*  
<sup>1</sup> Military Technical Academy Ferdinand I, Bucharest, Romania  
<sup>2</sup> Grenoble Institute of Technology, France
- 16:00 **Enhancing Sidescan Imagery from a Multifrequency  
Interferometric Sonar Using Sonar Equation**  
*Mathieu Serratrice<sup>1,2</sup>; Matthew Geen<sup>2</sup>; Jitendra  
Sewada<sup>2</sup>*  
<sup>1</sup> Université Grenoble Alpes, Gipsa-lab, France  
<sup>2</sup> ITER Systems

# Poster Session

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May 28th, 16:00 – 17:00

Entrance: Constantin Mille St. / Regina Elisabeta Blvd.

Lower ground floor, Room: *Bizantină*

Session  
Chairs

*Petrică CIOTÎRNAE*

*Military Technical Academy Ferdinand I,  
Bucharest, Romania*

*Dragoș-Daniel ȚARĂLUNGĂ*

*National University of Science and  
Technology Politehnica Bucharest, Romania*

**Mission-Ready 5G: Secure Core Architecture with Real-Time Tactical Alert Orchestration**

*Elena Tinca; Manuela Petronela Toma*

Military Technical Academy Ferdinand I, Bucharest, Romania

**Design and Performance Analysis of a Microstrip Patch Antenna and a Corporate-Fed Two-Element Array for 5G NR n78 at 3.6 GHz**

*Claudiu Olteanu; Ioan Nicolaescu; Laurentiu Buzincu*

Military Technical Academy Ferdinand I, Bucharest, Romania

**SDN Controllers Placement in Large Networks - Comparative Study**

*Maria Daniela Tache; Eugen Borcoci*

National University of Science and Technology Politehnica  
Bucharest, Romania

Performance Evaluation of the OAIBOX 5G Standalone System in Compliance with 3GPP Standards

*Marius-Daniel Tonciu; Cristina Despina-Stoian; Dragoş Nastasiu; Angela Digulescu; Iulian Vizitiu*

Military Technical Academy Ferdinand I, Bucharest, Romania

A Sequential Multi-Level Multimodal Biometric Access Control System

*Danut Armencescu; Petrica Ciotirnae*

<sup>1</sup> Military Technical Academy Ferdinand I, Bucharest, Romania

Resilient GNSS Architecture to Spoofing and Meaconing Through Galileo OS-NMA Message Authentication, and Distributed Trust Governance Based on Blockchain Technologies

*Petrica Ciotirnae<sup>1</sup>; Adrian Florin Paun<sup>2</sup>; Robert Florescu<sup>3</sup>; Anais Sachian<sup>3</sup>*

<sup>1</sup> Military Technical Academy Ferdinand I, Bucharest, Romania

<sup>2</sup> National University of Science and Technology Politehnica Bucharest, Romania

<sup>3</sup> BEIA Consult International, Romania

Performance Evaluation of LEO Satellite Mega-Constellations for Future Non-Terrestrial Networks

*Răgman Alexandru Răzvan; Denis Stanescu*

<sup>1</sup> Military Technical Academy Ferdinand I, Bucharest, Romania

Comparative Analysis of MIMO and SISO System Performance Based on Indoor Measurements Using USRP B210

*Denisa Bianca Anghel; Cristina Despina-Stoian; Iulian Vizitiu*

Military Technical Academy Ferdinand I, Bucharest, Romania

Benchmarking Classical and Deep Learning Methods for  
Image Restoration Under Simulated Environmental  
Distortions

*Andreea Zdrânc; Dragoş Nastasiu*

Military Technical Academy Ferdinand I, Bucharest, Romania

Technical Countermeasures to Reduce the Risk of Voice  
Conversations Interception in Closed Spaces

*Robert Mart; Petrica Ciotirnae*

Military Technical Academy Ferdinand I, Bucharest, Romania

# Parallel Sessions

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## Next-Generation Communications & Adaptive Systems

May 28th, 17:00 – 19:00

Entrance: Regina Elisabeta Blvd, First-Floor, Room:  
Norvegiană

Session  
Chairs

*Damian GORGOTEANU*

*Military Technical Academy Ferdinand I,  
Bucharest, Romania*

*Alexandru RUSU*

*National University of Science and  
Technology Politehnica Bucharest, Romania*

**A Scalable IoT and Sensor Network Architecture for  
Smart Agricultural Monitoring and Adaptive Control**  
*Anzhelika Borbak<sup>1</sup>; Robert Streche<sup>1</sup>; Andrei Danila<sup>1</sup>;  
Theodor-Marian Pintilie<sup>1</sup>; Cristina Mihaela Dobre<sup>1</sup>;  
George Suciu<sup>2</sup>*

17:00

<sup>1</sup>Beia Consult International, Romania

<sup>2</sup>National University of Science and Technology Politehnica  
Bucharest, Romania

**Adaptive Network for Emergency Situations**

*Miruna Calinoiu; Alexandru Frunza; Cristian Rincu*  
Military Technical Academy Ferdinand I, Romania

17:20

- 17:40 **A Regularized RLS Adaptive Algorithm with Variable Forgetting Factor**  
*Cristina-Florina Anghel<sup>1</sup>; Camelia Elisei-Iliescu<sup>1</sup>; Constantin Paleologu<sup>1</sup>; Jacob Benesty<sup>2</sup>; Radu Otopeleanu<sup>1</sup>; Cristian Stanciu<sup>1</sup>; Cristian Anghel<sup>1</sup>; Silviu Ciochina<sup>1</sup>*  
<sup>1</sup>National University of Science and Technology Politehnica Bucharest, Romania  
<sup>2</sup>INRS-EMT, University of Quebec, Canada
- 18:00 **Analysis of Satellite Constellation for Quantum Entanglement Distribution over ITU-Modeled Atmospheric Channels**  
*Arhip Petrică<sup>1</sup>; Filip Ioan Ceară<sup>2</sup>; Alexandru Frunza<sup>1</sup>; Denis Stanescu<sup>1</sup>*  
<sup>1</sup>Military Technical Academy Ferdinand I, Romania  
<sup>2</sup>National University of Science and Technology Politehnica Bucharest, Romania
- 18:20 **Adaptive Energy-Aware Duty Cycle Optimization Algorithm for IoT Wireless Sensor Networks**  
*Oana Mihaela Vultur*  
Stefan cel Mare University of Suceava, Romania
- 18:40 **ORO 6G-PATH Testbed: Deployment, Architecture and Experimental Capabilities**  
*Elena Oproiu<sup>1</sup>; Ioan Constantin<sup>1</sup>; Marius Iordache<sup>1</sup>; Cristian Patachia - Sultanoiu<sup>1</sup>; Razvan Mihai<sup>2</sup>*  
<sup>1</sup>Orange Romania, Romania  
<sup>2</sup>National University of Science and Technology Politehnica Bucharest, Romania

# Communication and Information Systems Security

May 28<sup>th</sup>, 17:00 – 19:00

Entrance: Regina Elisabeta Blvd, Ground  
Floor, Room: Spectacole

Session  
Chairs

*Iulian ACIOBĂNIȚEI*

*Military Technical Academy Ferdinand I,  
Bucharest, Romania*

*Octavian CATRINA*

*National University of Science and  
Technology Politehnica Bucharest, Romania*

**Biometric Bootstrapping of Quantum Key Distribution  
via Remote Video Identification**

*Claudiu Guster; Eugen Ioan Pop; Mihnea - Alexandru  
Moisescu;*

17:00

*Miruna - Elena Iliuță*

*National University of Science and Technology Politehnica  
Bucharest, Romania*

**Secure Multiparty Function Evaluation Using Polynomial  
Approximation**

*Octavian Catrina*

17:20

*National University of Science and Technology Politehnica  
Bucharest, Romania*

**Stream Ciphers Used in Mobile Communications:  
Implementation and Comparative Analysis of the ZUC-  
256 and SNOW-V Algorithms**

17:40

*Tudor Eduard Ionut; Leontin Tuta*

*Military Technical Academy Ferdinand I, Romania*

18:00

**Endpoint Security Evasion: A Survey of Detection Mechanisms and Injection Techniques**  
*Elena Camelia Negoescu; Ștefan Ionuț Enache; Mihai Togan*  
Military Technical Academy Ferdinand I, Romania

18:20

**Blockchain-Enabled Attribute-Based Access Control with Decentralized Revocation for Industrial IoT Edge Computing (D-ABAC)**  
*Marius Iulian Mihailescu<sup>1</sup>; Stefania Loredana Nita<sup>2</sup>; Valentina Marasc<sup>1,3</sup>; Liliana Zisu<sup>2</sup>; Asalomia Laurentiu Bogdan<sup>4</sup>; Marius Rogobete<sup>5</sup>*  
<sup>1</sup>Spiru Haret University, Romania  
<sup>2</sup>Military Technical Academy Ferdinand I, Romania  
<sup>3</sup>National University of Science and Technology Politehnica Bucharest, Romania  
<sup>4</sup>Northern Marine Management, Romania  
<sup>5</sup>Titu Maiorescu University, Romania

18:40

**Rule-Based and Hybrid Machine Learning Approaches to Network Intrusion Detection**  
*Alexandra-Victoria Ciuvăț<sup>1</sup>; Cujbă Mihai-Cătălin<sup>2</sup>; Medvei Mirabela-Melinda<sup>2</sup>*  
<sup>1</sup>Military Technical Academy Ferdinand I, Romania  
<sup>2</sup>National University of Science and Technology Politehnica Bucharest, Romania

# Autonomous Systems, UAVs & Intelligent Sensing

May 29<sup>th</sup>, 9:00 – 11:00

Entrance: Regina Elisabeta Blvd, First-Floor,  
Room: *Norvegiană*

*Session  
Chairs*

*Cristian PATACHIA - SULTANOIU  
Orange Romania, Romania  
Razvan MIHAI*

*National University of Science and Technology  
Politehnica Bucharest, Romania*

09:00

**HADES: Height-Aware Automated Delivery and Ejection  
System for UAV-Deployed Payload and Counter-UAV  
Support**

*Mihai Barbu; Cristian Molder; Ștefania Ștefănescu*  
Military Technical Academy Ferdinand I, Bucharest, Romania

09:20

**Decentralized Swarm Robotics Exploration Using Levy  
Flight and Short-Term Memory**

*Andrei Dutceac; Iulian Vizitiu*  
Military Technical Academy Ferdinand I, Bucharest, Romania

09:40

**Adaptive Point-Target Tracking for Automotive Radar  
Using a Minimal IMM Framework**

*Voislava-Denisa Davidovici; Daniel Varcui; Atila Gabriel  
Ham; Corina Naforntita; Alexandru Isar; Ioan Naforntita*  
Politehnica University of Timisoara, Romania

10:00

Performance Optimization of Trimmed-Mean CFAR  
Detectors in Multi-Target Automotive Scenarios  
*Daniel Varcui; Voislava-Denisa Davidovici; Atila Gabriel  
Ham; Corina Nafornita* Politehnica University of Timisoara,  
Romania

10:20

Low-Cost Drone Detection System Using RF Method  
*Constantin Pintilie<sup>1</sup>; Damian Gorgoteanu<sup>2</sup>*  
<sup>1</sup>BlueSpace Technology S.A, Romania  
<sup>2</sup>Military Technical Academy Ferdinand I, Bucharest, Romania

10:40

Design and Evaluation of RF Communication for a Custom  
UAV System  
*Teodor-Mihail Giurgica<sup>1</sup>; Ioana Corina Bogdan<sup>2</sup>; Andrei  
Chiper<sup>2</sup>; Catalin Milchis<sup>2</sup>; Annamaria Sârbu<sup>1</sup>; Simona  
Miclaus<sup>1</sup>; Titus C Balan<sup>2</sup>*  
<sup>1</sup> Land Forces Academy Nicolae Bălcescu Sibiu, Romania  
<sup>2</sup> Transilvania University of Brasov, Romania

# Artificial Intelligence

May 29<sup>th</sup>, 11:30 – 13:30

Entrance: Regina Elisabeta Blvd, First-Floor,  
*Room: Norvegiană*

*Session  
Chairs*

*Anamaria RĂDOI*

*National University of Science and  
Technology Politehnica Bucharest, Romania*

*Alexandru FRUNZĂ*

*Military Technical Academy Ferdinand I,  
Bucharest, Romania*

**SessionSense: Detecting Web Attacks Through Session-  
Level Behavioral Feature Engineering**

*Cujbă Mihai-Cătălin<sup>1</sup>; Costin Gabriel Chiru<sup>1</sup>; Bica Ion<sup>2</sup>;*

*Alexandra-Victoria Ciuvăţ<sup>2</sup>*

11:30

<sup>1</sup>National University of Science and Technology Politehnica  
Bucharest, Romania

<sup>2</sup> Military Technical Academy Ferdinand I, Bucharest, Romania

**Latency, Reasoning, and Hallucination: A Logical DoS  
Benchmark for Open-Source LLMs**

11:50

*Anca Gavriţa; Luciana Maria Morogan*

Military Technical Academy Ferdinand I, Bucharest, Romania

**Oil Spill Detection in SAR Images Using Transformer-  
Based Architectures**

12:10

*Melisa Unsalan; Anamaria Radoi*

<sup>1</sup>National Institute for Research and Development of Isotopic and  
Molecular Technologies, Romania

12:30

Real-Time Vision-Based Perception for Urban ADAS  
Using Large-Scale Camera Networks Using YOLO26

*George-Codrin Hariga; Costin Anton Boiangiu*

National University of Science and Technology Politehnica  
Bucharest, Romania

12:50

Body Language Semantics for Context-Independent  
Emotion Recognition via Retrieval-Augmented  
Generation

*Constantin-Bogdan Popescu; Corneliu Florea*

National University of Science and Technology Politehnica  
Bucharest, Romania

13:10

Temporal Windowing for Cross-Session Wi-Fi CSI  
Presence Detection

*Andrei Țaga<sup>1</sup>; Razvan Craciunescu<sup>1,2</sup>; Razvan Mihai<sup>1,3</sup>;  
Mihnea Udrea<sup>1</sup>; Constantin Pintilie*

<sup>1</sup> National University of Science and Technology Politehnica  
Bucharest, Romania

<sup>2</sup>Future Networks Lab, Romania

<sup>3</sup>Orange, Romania

<sup>4</sup>BlueSpace Technology S.A, Romania

# Workshop On Research & Innovation for Secure Societies (RISS)

May 29<sup>th</sup>, 09:00 – 12:15

Entrance: Regina Elisabeta Blvd, Ground  
Floor, Room: Spectacole

Session  
Chairs

*Bogdan Emanuel IONESCU*  
National University of Science and Technology  
Politehnica Bucharest, Romania  
*Ruxandra TAPU*  
National University of Science and Technology  
Politehnica Bucharest, Romania

09:00-  
10:15

## **Session 1 - WORKSHOP ON RESEARCH & INNOVATION FOR SECURE SOCIETIES (RISS)**

Transformer-Based Detection of Satire, Sarcasm, and Irony in  
Romanian Text

09:00

*George Bara, Emil Şteţco, Daniel Bran*  
ZETTA Critical AI, Romania & Technical University of Cluj-Napoca,  
Romania

Semantic and Relational Toponym Geolocation from  
Romanian Texts: An LLM-Driven, on Premise Architecture  
with Ambiguity-Aware Disambiguation

09:15

*Emil Şteţco; George Bara; Daniel Bran*  
ZETTA Critical AI, Romania & Technical University of Cluj-Napoca,  
Romania

09:30	<p>PolyglotFakeFacts - a Multilingual Dataset for Fake News Detection Across Politics, Security, and Social Domains  <i>Alexandru Ciobanu; Bogdan Emanuel Ionescu</i>  National University of Science and Technology Politehnica Bucharest,  Romania</p>
09:45	<p>Readability Improvement with Open-Source LLMs: A Comparative Evaluation on Romanian Language  <i>Lucian Gruia; Ruxandra Tapu</i>  National University of Science and Technology Politehnica Bucharest,  Romania</p>
10:00	<p>Decoupling Articulation from Language: Phonetic Interfaces for Romanian Visual Speech Recognition  <i>Ruxandra Tapu<sup>1,2</sup>; Bogdan Mocanu<sup>1,2</sup></i>  <sup>1</sup>Institut Telecom / Telecom SudParis, France  <sup>2</sup>National University of Science and Technology Politehnica Bucharest,  Romania</p>
10:15	<p><i>Joint Named Entity Recognition and Relation Extraction for Romanian: A BERT-Based Approach with Class Balancing</i>  <i>Dragoş-Mitruţ Vasile<sup>1</sup>; Mihai Coca<sup>2</sup>; Ştefan-Adrian Toma<sup>2</sup>;</i>  <i>Ciprian-Octavian Truică<sup>1</sup></i>  <sup>1</sup>National University of Science and Technology Politehnica Bucharest,  Romania  <sup>2</sup>Military Technical Academy Ferdinand I, Romania</p>
10:15 - 11:30	<p>Exhibition and Poster Session RISS  Entrance: Constantin Mille St. / Regina Elisabeta Blvd.,  Lower ground floor, Room: Bizantină</p>

## Dynamic Infrared Thermography for Quantitative Assessment of Melanocytic Lesions

*Maria Oniga<sup>1</sup>; Andrei Eliazar Iacob<sup>1</sup>; Alina Elena Sultana<sup>1</sup>; Razvan Condorovici<sup>1</sup>; Daniel Octavian Costache<sup>2</sup>; Anton Mihai Ţilea<sup>3</sup>*

<sup>1</sup>National University of Science and Technology Politehnica Bucharest, Romania

<sup>2</sup>Carol Davila University of Medicine and Pharmacy, Romania

<sup>3</sup>Central Military Emergency University Hospital Carol Davila, Romania

## An Empirical Evaluation for Linux Security Tasks via Local LLM

*Raimondo Graceffa; Alexandra Bianca Racareanu; Lucian Gruia*

National University of Science and Technology Politehnica Bucharest, Romania

## EEG Signal Processing for Assessing Mannitol Response in Stroke Patients

*Ionuț Manea<sup>1</sup>; Daneasa Andrei<sup>2</sup>; Vlad Eugen Tiu<sup>2</sup>; Georgeta-Mihaela Neagu<sup>1</sup>; Cristina Aura Panea<sup>2</sup>; Dragos Daniel Taralunga<sup>1</sup>*

<sup>1</sup>National University of Science and Technology Politehnica Bucharest, Romania

<sup>2</sup>Carol Davila University of Medicine and Pharmacy, Romania

## From Supervised Reasoning to Reward-Optimized Policy Adaptation: A GRPO Framework for Trustworthy Numeric Decision Support

*Gheorghe-Adrian Dina; Bogdan Emanuel Ionescu*

National University of Science and Technology Politehnica Bucharest, Romania

## Fine-Grained Zero-Shot Vehicle Make and Model Recognition: A Survey and Future Directions

*Pavel Adriana; Andrei Vizureanu*

National University of Science and Technology Politehnica Bucharest,  
Romania

**Clinical Information Extraction from Echocardiography  
Reports Using Domain-Specific Transformer Models**

*Iulian-Costin Neaga; Gigoi Stefan Alexandru; Georgeta-  
Mihaela Neagu; Dragos Daniel Taralunga*

National University of Science and Technology Politehnica Bucharest,  
Romania

**Logistic-Map-Inspired Activation for CNN-Based Speech  
Emotion Recognition**

*Mirela Magdalena Marinescu; Octaviana Datcu; Mihai  
Stanciu*

National University of Science and Technology Politehnica Bucharest,  
Romania

### **Coffee Break**

**11:00 -  
11:30**

Entrance: Constantin Mille St. / Regina Elisabeta Blvd.,  
Lower ground floor, Room: Bizantină

**11:00 -  
12:15**

### **Session 2 - WORKSHOP ON RESEARCH & INNOVATION FOR SECURE SOCIETIES (RISS)**

**License Plate Image Reconstruction: Experimental Evaluation  
with a Focus on Dataset Construction**

**11:00**

*Miruna-Mihaela Modiga, Antonio-Ciprian Heaşcă, Ştefan-  
Adrian Toma*

Military Technical Academy Ferdinand I, Bucharest, Romania

11:15	<p style="text-align: center;">Design Requirements for Context-Adaptive Tactical AR HUDs: Evidence from a User Survey <i>Cristian Molder</i> Military Technical Academy Ferdinand I, Romania</p>
11:30	<p style="text-align: center;">Learning Selective Vision-Language Inference for Vehicle Make and Model Recognition <i>Bogdan Mocanu<sup>1,2</sup>; Ruxandra Tapu<sup>1,2</sup></i> <sup>1</sup>National University of Science and Technology Politehnica Bucharest, Romania <sup>2</sup>Institut Telecom / Telecom SudParis, France</p>
11:45	<p style="text-align: center;">Crowd Behavior Monitoring in a Surveillance Scenario <i>Mihai Dogariu; Mihai Gabriel Constantin; Bogdan Emanuel Ionescu</i> National University of Science and Technology Politehnica Bucharest, Romania</p>
12:00	<p style="text-align: center;">Aggressive Driving Detection from Surveillance Videos <i>Mihai Dogariu; Bogdan Mocanu</i> National University of Science and Technology Politehnica Bucharest, Romania</p>
12:15	<p style="text-align: center;">Post-Quantum Secure Communication on Resource- Constrained UAVs for Mission-Critical Infrastructure Protection <i>Andrei Istrate<sup>1</sup>; Cosmin Rusea<sup>1</sup>; Florin Rastoceanu<sup>2</sup>; Madalin- George Boboc<sup>3</sup>; Cosmin Gruescu<sup>3</sup>; Constantin Grozea<sup>2</sup>; Ilie Constantin Bogdan<sup>3</sup></i> <sup>1</sup>National University of Science and Technology Politehnica Bucharest, Romania <sup>2</sup>Ministry of Defense, Romania <sup>3</sup>Military Equipment and Technologies Research Agency, Romania</p>





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