

**R O M A N I A**  
**MINISTRY OF NATIONAL DEFENCE**



**THE 2<sup>nd</sup> INTERNATIONAL SCIENTIFIC CONFERENCE  
EMERGING AND DISRUPTIVE TECHNOLOGIES'  
IMPACT ON GLOBAL SECURITY**



**PROGRAMME**

**November 24-25, 2022  
SIBIU**

# INTERNATIONAL SCIENTIFIC COMMITTEE

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Maria-Lucia RUSU

Rodica HURJUI

## EDT 2022 Programme

Friday, November 25 <sup>th</sup>	
<b>08.30-10.00</b>	Registration of Participants
<b>10.00-12.00</b>	<p style="text-align: center;"><b>Opening Remarks / Auditorium, Bldg. D</b></p> <ul style="list-style-type: none"> <li>• Message of <b>COL Assoc.prof. Constantin GRIGORAŞ, PhD</b>, Vice-Rector for Lifelong Learning and Student Affairs of “Nicolae Bălcescu” Land Forces Academy;</li> <li>• Message of <b>General (ret.) Prof. Teodor FRUNZETI, PhD</b>, President of the Military Sciences Section of the Academy of Romanian Scientists</li> <li>• Message of <b>General (ret.) Ion OPRIŞOR</b>, Presidential Adviser, Presidential Administration;</li> <li>• Message of <b>Mr. Dennis GOEGE, PhD</b>, Vice President Central and Eastern Europe (VP CEE), Lockheed Martin;</li> <li>• Message of <b>Prof.eng. Adrian Alexandru BADEA, PhD</b>, President of the Academy of Romanian Scientists.</li> </ul> <p style="text-align: center;"><b>Plenary Presentations</b></p> <ul style="list-style-type: none"> <li>• <b>Brigadier General Ivan MALAMOV</b>, Rector of “Vasil Levski” National Military University in Veliko Tarnovo, Bulgaria;</li> <li>• <b>Lieutenant General (ret.) Căţalin-Tomiţă TOMESCU, PhD</b>;</li> <li>• <b>Daniel METZ, PhD, Maria-Mihaela GURĂU, PhD.</b></li> </ul> <p style="text-align: center;"><b>Services, Product and Demonstrative Presentations</b></p> <ul style="list-style-type: none"> <li>• Safetech Innovations Services Presentation – <b>Mrs. Olivia COMŞA</b>, Research and Development Manager at Safetech Innovations;</li> <li>• Yotta Volt Romania Product Presentation – <b>Mr. Antonios VANDOULAKIS</b>, CEO Yotta Volt Romania;</li> <li>• XPERI Romania Product Presentation – <b>Mr. Csaba NEMETI.</b></li> <li>• Demonstrative Presentation on Augmented Reality (AR), an Educational Solution for the Development and Optimization of the Methods of Analysis of Task Forces – <b>LTC Claudiu VESA</b>, “Nicolae Bălcescu” Land Forces Academy.</li> </ul>
<b>12.00-14.00</b>	<ul style="list-style-type: none"> <li>• Panel Presentations, Auditorium Bldg. D; 3rd Floor; Room 47.</li> <li>• Equipment Exhibitions (Safe Tech, XPERI, Yottavolt), Auditorium, Bldg. D.</li> </ul>

## **P A N E L S**

- 1. THE IMPACT OF EMERGING AND DISRUPTIVE TECHNOLOGIES ON SOCIETY**
- 2. THE ROLE OF EMERGING AND DISRUPTIVE TECHNOLOGIES ON MILITARY AFFAIRS**
- 3. ARTIFICIAL INTELLIGENCE IN ACHIEVING TECHNOLOGICAL EDGE**
- 4. EMERGING AND DISRUPTIVE TECHNOLOGIES AND TECHNOLOGICAL SUPERIORITY**

The panel presentations will take place in the Auditorium Bldg. D, 3<sup>rd</sup> Floor, Room 47.

Online connection will be available, on Moodle Platform, at:  
<https://bbb1.armyacademy.ro/meet/adm-jtf-c3b-t6y>, <https://bit.ly/EDTIGS>

**Chairpersons:** **Vasile Florin POPESCU**, PhD  
**Liviu COȘEREANU**, PhD  
COL Assoc.Prof. **Lavinu BOJOR**, PhD  
LTC Assoc.Prof. **Paul TUDORACHE**, PhD

**Place:** Auditorium Bldg. D; 3rd Floor; Room: 47

1. *Use of Forecasting Systems in the Military Decision Making Process*, **Alexandru BABOȘ\***, **Corneliu-George IACOB\*\***, **Cristian ENE\*\*\***, \**“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania*, \*\**University of Economic Studies, Bucharest, Romania*, \*\*\**Military School of Information Technology Communications and Cyber Defense, Sibiu, Romania*
2. *Educational Opportunities Provided by the Existence of Critical Infrastructures at the Level of Sibiu County in the Field of Training for Resilience*, **Dorel BADEA**, **Cosmin PIELE**, **Diana RANF**, *“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania*
3. *Eco-Innovation Capability Approach Regarding Military Performance Development*, **Mădălina-Ioana BĂDILĂ\***, **Lucian-Ionel CIOCA\***, **Ioan VIRCA\*\***, \**“Lucian Blaga” University, Sibiu, Romania*, \*\**“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania*
4. *A Proximal Policy Optimization Reinforcement Learning approach to UAV Attitude Control*, **Răzvan-Ionuț BĂLAȘA**, **Marian Ciprian BÎLU**, **Cătălin IORDACHE**, *National Institute for Aerospace Research “Elie-Carafoli” - INCAS, Bucharest, Romania*
5. *The Challenges of Social Media Platforms. Aspects of the Social Media War in Ukraine 2014-2022*, **Lavinu BOJOR**, **Alin CÎRDEI**, \**“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania*

6. *NATO Corp HQ - Land Component- Integration of UAVS*, **Adrian Constantin CIOLPONEA\***, **Ghiță BÂRSAN\*\***, \*Ministry of National Defense, Bucharest, Romania, \*\*“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
7. *The integration of UAS in current combat operations*, **Adrian Constantin CIOLPONEA**, Ministry of National Defense, Bucharest, Romania
8. *A New Global Competition at Risk. Artificial Intelligence as a Means for Gaining Competitive*, **Anca DINICU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
9. *Human-Machine Shared Situational Awareness*, **Ion GRUJDIN**, National Institute for Aerospace Research “Elie-Carafoli” - INCAS, Bucharest, Romania
10. *Autonomous Aerospace Technologies in Spacesyslab - a Robotic - Based Rendezvous and Docking System*, **Achim IONIȚĂ**, **Sandra NICHIFOR**, National Institute for Aerospace Research “Elie-Carafoli” - INCAS, Bucharest, Romania
11. *Working Psychosocial Conditions and Health Effects for Video Display Terminals Users in Some Administrative Activities*, **Raluca Maria IORDACHE\***, **Lucian-Ionel CIOCA\*\***, **Doru Costin DARABONȚ\***, \*The National Research and Development Institute for Occupational Safety, \*\*“Lucian Blaga” University, Sibiu, Romania
12. *Emerging and Disruptive Technologies: The 2Metaverse. Implications on Global Security*, **Daniel METZ\***, **Maria-Mihaela GURĂU**, \*\*“Babeș-Bolyai” University, Cluj-Napoca, Romania
13. *The use of cybernetic systems based on Artificial Intelligence as support for the decision-making process in the military field*, **Eugen Valeriu POPA**, STRATEGIKON, Bucharest
14. *SCADA Traffic Simulation for Controlling Industrial Processes and Infrastructures*, **Vasile Florin POPESCU\***, **Victor GÂNSAC\*\***, **Olivia COMȘA\*\***, **Marius PARVU\*\***, **Sorin PISTOL\*\***, \*National Defence University of Bucharest, Faculty

of Security and Defense, Romania, \*\*SAFETECH Innovation, Romania

15. *SCADA Systems for Industrial Automation and Control Systems in Industry 4.0*, **Vasile Florin POPESCU\***, **Cezar SCARLAT\*\***, \*National Defence University of Bucharest, Faculty of Security and Defense, Romania, \*\*Politehnica University of Bucharest, Romania
16. *An Implementation of a Sensor Blockchain Network*, **Daniel ROȘCA**, “Gheorghe Asachi” Technical University of Iași, Romania
17. *Artificial Intelligence*, **Eugen SITEANU**, **Teodor FRUNZETI**, **Liviu COȘEREANU**, Academy of Romanian Scientists, Bucharest, Romania

Keyboarding Assistance:

*Elena PLEȘANU*

*Cristina ȚUNDRECI*

*Rodica HURJUI*



