

ROMANIA
MINISTRY OF NATIONAL DEFENCE



“NICOLAE BĂLCESCU”
LAND FORCES ACADEMY IN SIBIU



ACADEMY OF ROMANIAN SCIENTISTS
MILITARY SECTION

INTERNATIONAL SCIENTIFIC CONFERENCE

EMERGING AND DISRUPTIVE TECHNOLOGIES’
IMPACT ON GLOBAL SECURITY



PROGRAMME

November 18, 2021
SIBIU

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EDT 2021 Programme

Thursday, November 18	
10:00-10:15	Opening Remarks/Auditorium General (ret.) Prof. Teodor FRUNZETI, PhD BG Prof.Eng. Ghiță BÂRSAN, PhD
10:15-10:45	Plenary Presentations/Auditorium General (ret.) Ion OPRÎȘOR, Presidential Adviser, Head of the Department of National Security <i>- The Impact of Emerging and Disruptive Technologies on Security</i> Prof.Eng. Alexandru-Adrian BADEA, PhD, AOSR President <i>- Online message on behalf of AOSR</i>
10:45-11:00	Demonstrative presentation of some applications based on Augmented Reality (AR) and Virtual Reality (VR) /Auditorium
11:30-14:00	Presentations on Sections/Designated Laboratories*

* Presentations on Sections will be delivered on Moodle Platform

PANEL 1: EMERGING AND DISRUPTIVE TECHNOLOGIES WITH MILITARY IMPACT

Chairpersons: Major General (ret.), Professor **Gheorghe CALOPĂREANU**, PhD
Colonel Associate Professor Engineer **Ioan VIRCA**, PhD

Place: Applied Informatics I. Databases Lab
Room: 46; Building: D; 2nd Floor

1. *Artificial Intelligence as a Decision-Making Tool for Military Leaders*, **Alexandru BABOȘ**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
2. *Reflections on the Role of Higher Education Institutions in Introducing Emerging Technologies into the Educational Process in the Face of the Pandemic Challenge COVID-19*, **George BUCĂȚA**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
3. *Considerations on Countering the Actions Aimed at Banning Access and Restricting Freedom of Action (A2AD)*, **Ionuț Alin CÎRDEI**, **Laviniu BOJOR**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
4. *The Influence of Disruptive Technologies in the Field of Defense*, **Ileana METEA**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
5. *Quantum Internet and Security of Military Communications*, **Florin POPESCU***, **George BUCĂȚA****, **Sorin PISTOL*****, *"Carol I" National Defense University, Bucharest, Romania, **"Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania, ***"European Commission" European Asylum Support Office, Brussels, Belgium
6. *The Potential Impact of the 4th Industrial Revolution Technologies on Revolutionizing the NATO Land Forces*, **Paul TUDORACHE**, **Aurelian RAȚIU**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
7. *The Challenges of Simulation Training of the Troops in the Context of the Emerging Technologies*, **Cristian ȚECU***, **Sorin PÎNZARIU****, *Joint National Training Center, Cincu, Romania, **"Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania
8. *Applications of Augmented Technologies in the Educational Military Field*, **Ioan VIRCA**, **Ghiță BÂRSAN**, **Romana OANCEA**, **Claudiu VESA**, "Nicolae Bălcescu" Land Forces Academy, Sibiu, Romania

PANEL 2: EMERGING AND DISRUPTIVE TECHNOLOGIES IMPACT ON POLITICS AND SOCIETY

Chairpersons: Brigadier General (ret), Professor **Viorel BUȚA**, PhD
Associate Professor **Anca DINICU**, PhD

Place: Applied Informatics IV. Cyber Security Lab
Room: 47; Building: D; 2nd Floor

1. *Strategies and Policies for New Technologies: the United Nations, the United States and the European Union*, **Alina ALEXANDRU**, “Carol I” National Defence University, Bucharest, Romania
2. *An EDTs Perspective on the Social Security in Academia*, **Mădălina-Ioana BĂDILĂ***, **Lucian-Ionel CIOCA***, **Ioan VIRCA****, **“Lucian Blaga”* University of Sibiu, Romania, ***“Nicolae Bălcescu”* Land Forces Academy, Sibiu, Romania
3. *The Multidimensional Impact on Society of Cyber Attacks Targeting the Energy Critical Infrastructure Sector*, **Anca DINICU**, **Romana OANCEA**, **Ghiță BÂRSAN**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
4. *The Impact of Emerging and Disruptive Technologies on Security*, **Ion OPRÎȘOR**, Presidential Administration of Romania
5. *Emerging and Disruptive Technologies*, **Ion-Alexandru PLĂVICIOSU**, Academy of Romanian Scientists, Bucharest, Romania
6. *Impact of Weather Change Technologies on Global Security*, **Olena SHEVCHENKO**, **Kira HORIACHEVA**, “Taras Shevchenko” National University of Kyiv, Kyiv, Ukraine
7. *Prediction of the EDT Trends – National and Supranational Activities*, **Mladen VIHER**, **Marijan PALJEVIĆ**, **Dalibor GERNHARDT**, Croatian Defence Academy, Centre for Defence and Strategic Studies, Zagreb, Croatia

PANEL 3: ECONOMIC IMPACT OF EMERGING AND DISRUPTIVE TECHNOLOGIES

Chairpersons: Brigadier General (ret.) **Mircea UDRESCU**
Colonel (ret.) Engineer **Liviu COȘEREANU**, PhD
Professor **Sorin PÎNZARIU**, PhD

Place: Applied Informatics III. Cyber Security Lab
Room: 48; Building: D; 2nd Floor

1. *Could Virtual Currencies Replace Classic Money and Influence the Activities of Banks?*, **Alexandru-Cosmin DUMITRU**, “Carol I” National Defence University, Bucharest, Romania
2. *The Potential of Virtual Currencies to Contribute to the Welfare of Individuals and the Global Economic Development*, **Alexandru-Cosmin DUMITRU**, “Carol I” National Defence University, Bucharest, Romania
3. *Impact of Disruptive Technologies on Defence*, **Teodor FRUNZETI***, **Liviu COȘEREANU***, **Tiberius TOMOIAGĂ****, *Romanian Academy of Sciences, Bucharest, Romania, **Military Equipment and Technologies Research Agency, Bucharest, Romania
4. *The Banking Financial System as a Critical Infrastructure of the Current and Future Society*, **Laurențiu Mihail GRIGORE**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
5. *The Transpersonal War - Constituent of the Hybrid War*, **Aliodor MANOLEA**, “Hyperion” University, Bucharest, Romania
6. *Emerging Technologies and National Security: the Impact of IOT in Critical Infrastructures Protection and Defence Sector*, **Petrișor PĂTRAȘCU**, “Carol I” National Defence University, Bucharest, Romania
7. *Emerging Technologies: Innovation, Demassification, Effectiveness, Revolutions in Military Affairs*, **Mircea UDRESCU**, **Eugen SITEANU**, Academy of Romanian Scientists, Bucharest, Romania
8. *Hybrid Emerging and Destructive Technologies with Implications on National and European Security and Sovereignty*, **Mircea UDRESCU**, **Eugen SITEANU**, Academy of Romanian Scientists, Bucharest, Romania

