



**THE 5th INTERNATIONAL SCIENTIFIC CONFERENCE
EMERGING AND DISRUPTIVE TECHNOLOGIES'
IMPACT ON GLOBAL SECURITY**



CALL FOR PAPERS

**March 26-27, 2026
SIBIU, ROMANIA**

INTERNATIONAL SCIENTIFIC COMMITTEE

CO-CHAIRPERSONS:

Dumitru TODOSIUC (Sibiu, Romania), **Teodor FRUNZETI** (Bucharest, Romania), **Doina Liana PÎSLĂ** (Cluj-Napoca, Romania)

MEMBERS:

Susana ALVAREZ-OTERO, University of Oviedo, Spain
Tiberiu Alexandru ANTAL, Technical University of Cluj-Napoca, Romania
Cătălin APOSTOLESCU, Titu Maiorescu University, Bucharest, Romania
Alexandru BABOȘ, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Dorel BADEA, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Cristina BĂTUȘARU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Alina BABOȘ, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Ghiță BÂRSAN, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Alin BODESCU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Laviniu BOJOR, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Mircea BOȘCOIANU, Transilvania University of Brașov, Romania
Daniel BREZINA, Armed Forces Academy of General M. R. Štefánik, Liptovský Mikuláš, Slovakia
George BUCĂȚA, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Olga BUCOVEȚCHI, University POLITEHNICA of Bucharest, Romania
Ștefania BUMBUC, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Simona-Gabriela BUNGĂU, University of Oradea, Romania
Darrell Norman BURRELL, Marymount University, United States of America
Marcin BUTLEWSKI, Poznan University of Technology, Poznan, Poland
Piera CENTOBELLI, University of Naples Federico II, Italy
Cătălin CIOACĂ, “Henri Coandă” Air Force Academy, Brașov, Romania
Lucian Ionel CIOCA, “Lucian Blaga” University, Sibiu, Romania
Dumitru CIORBĂ, Technical University of Moldova, Republic of Moldova
Ella Magdalena CIUPERCĂ, National Institute for Research and Development in Informatics, Bucharest, Romania
Ionuț-Alin CÎRDEI, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Maria CONSTANTINESCU, Dresmara, “Carol I” National Defense University, Bucharest, Romania
Liviu COȘEREANU, Academy of Romanian Scientists, Bucharest, Romania
Ștefan-Antonio DAN-ȘUTEU, “Carol I” National Defence University, Bucharest Romania
Agnieszka DEJA, Maritime University of Szczecin, Poland
Aldo DE SABATA, Politehnica University Timișoara, Romania
Angela DIGULESCU-POPESCU, Military Technical Academy “Ferdinand I”, Bucharest, Romania
Anca DINICU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Miriam ERTZ, University of Quebec in Chicoutimi, Canada
Teodor FRUNZETI, The Academy of Romanian Scientists, Bucharest, Romania
Ramona-Voichița GALATUS, Technical University of Cluj-Napoca, Romania
Alexandru GEORGESCU, National Institute for Research and Development in Informatics, Bucharest, Romania
Tiberiu GIURGIU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Ilie GLIGOREA, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Hortensia GORSKI, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Janusz GRABARA, Jan Długosz University in Czestochowa, Poland
Michal HRŇCIAR, Armed Forces Academy of General M. R. Štefánik, Liptovský Mikuláš, Slovakia
Dumitru IANCU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Dragoș Daniel ION-GUȚĂ, “Elie Carafoli” National Aerospace Research-Development Institute, Bucharest, Romania
Daniela JOIȚA, Titu Maiorescu University, Bucharest, Romania
Sougata KARMAKAR, Indian Institute of Technology Guwahati, India
Polinpapiliño KATINA, University of South Carolina Upstate, Spartanburg, South Carolina, USA
Jaroslav KOMPAN, Armed Forces Academy of General M. R. Štefánik, Liptovský Mikuláš, Slovakia
Sebastian KOT, Czestochowa University of Technology, Czestochowa, Poland
Ivan MAJCHÚT, Armed Forces Academy of General M. R. Štefánik, Liptovský Mikuláš, Slovakia
Ladislau MATEKOVITS, Politecnico di Torino, Torino, Italy
Gabriel MĂNESCU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Ieva MEIDUTE-KAVALIAUSKIENE, General Jonas Žemaitis Military Academy of Lithuania, Vilnius, Lithuania
Daniel METZ, 1 Decembrie 1918 University of Alba-Iulia, Romania
Simona MICLĂUȘ, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Marco Donald MIGLIORE, University of Cassino and Southern Lazio, Italia
Mădălina MILITARU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Gheorghe MINCULETE, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Anna MOLNAR, Ludovika University of Public Service, Budapest, Hungary
Dănuț-Eugeniu MOȘTEANU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Romana OANCEA, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Titu PARASCHIV, Titu Maiorescu University, Bucharest, Romania
Silviu Mihai PETRIȘOR, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Adrian PÎSLĂ, Technical University of Cluj-Napoca, Romania
Toma PLEȘANU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Victor PRICOP, “Elie Carafoli” National Aerospace Research-Development Institute, Bucharest, Romania
Iustin PRIESCU, Titu Maiorescu University, Bucharest, Romania
Emanuel PUȘCHIȚĂ, Technical University of Cluj-Napoca, Romania
Sara Ravan RAMZANI, Gisma University of Applied Sciences, Berlin, Germany
Diana RANF, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Aurelian RAȚIU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Ciprian RĂCUCIU, Titu Maiorescu University, Bucharest, Romania
Adrian Nicolae ROTARIU, Military Technical Academy “Ferdinand I”, Bucharest, Romania
Traian ROTARIU, Military Technical Academy “Ferdinand I”, Bucharest, Romania
Raluca RUSU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Jumadiil SAPUTRA, Universiti Malaysia Terengganu, Malaysia
Lilia SAVA, Technical University of Moldova, Republic of Moldova
Annamaria SÂRBU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Ștefan SCHAUER, Austrian Institute of Technology, Vienna, Austria
Rasa SMALIUKIENE, General Jonas Žemaitis Military Academy, Vilnius, Lithuania
Jerzy SMARDZEWSKI, Poznan University of Life Sciences, Poland
Sebastian-Emanuel STAN, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Adrian STOIAN, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Roman ȘTURM, University of Ljubljana, Slovenia
Darko SUKA, University Of East Sarajevo, East Sarajevo, Bosnia and Herzegovina
Róbert SZABOLCSI, Obuda University, Budapest, Hungary
Emil ȘORECĂU, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Adriana ȘTEFAN, “Elie Carafoli” National Aerospace Research-Development Institute, Bucharest, Romania
Siniša TEVELLY, Technical School Zagreb, Zagreb, Croatia
Tiberius TOMOIAĞĂ, Military Equipment and Technologies Research Agency, Bucharest, Romania
Paul TUDORACHE, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
Romulus Valeriu Flaviu TURCU, Babeș-Bolyai University, Cluj-Napoca, Romania
Aurel Mihail ȚÎȚU, “Lucian Blaga” University, Sibiu, Romania;
Liviu Călin VAIDA, Technical University Cluj-Napoca, Romania
Ioan VIRCA, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

GENERAL TOPICS AND PANELS

I. EMERGING AND DISRUPTIVE SOLUTIONS: TECHNICAL AND SYSTEMIC PERSPECTIVES

1. Artificial Intelligence and Machine Learning in Disruptive Solutions
2. Blockchain and Data Security: Impact and Emerging Applications, from Crypto-Assets to Trusted Infrastructures and Digital Identity
3. The Role of AI and IoT in Complex Architectures: Challenges and Opportunities in Managing the Resilience of Critical Systems and Services
4. Quantum, Edge, and Neuromorphic Computing and Their Disruptive Potential in Complex Systems: Possible Practical Applications and Scaling Challenges in Security, Engineering, and Economics
5. Collaborative Robotics and Interconnected Autonomous Systems
6. Big Data Analytics Mechanisms for System Optimization and Decision-Making, and the Regulation of Rapid Innovation (AI, Biotech, Data Governance)
7. Civil–Military Cooperation in Innovation and Technology Transfer
8. Agile Military Communication Architectures and Countermeasures in the Electromagnetic Spectrum
9. Technological Sustainability and Energy Efficiency in Digital Ecosystems
10. The Strategic Diplomacy of Innovation: Between Technological Progress and Geopolitical Balance

II. EMERGING AND DISRUPTIVE TECHNOLOGIES: OPERATIONAL PERSPECTIVES IN DEFENSE AND SECURITY

1. Drones and Autonomous Robots in Defense and Security Missions – UAVs, UGVs, USVs, and Swarm Systems; Autonomous Operations in Contested Environments
2. Artificial Intelligence in Cyber Threat Analysis and Prevention, and Real-Time Decision-Making – Autonomous and Semi-Autonomous Command-and-Control (C2) Systems, AI-Based Decision Support and Predictive Analytics in Military Operations
3. Augmented and Virtual Reality for Military Training and Simulation as Essential Tools for Personnel Preparation and Operational Planning
4. Integration of Uncrewed Platforms into Multi-Domain Operations (Air, Maritime, Land, Space, Cyber, Information)
5. Emerging Technologies in Surveillance and Reconnaissance (Video, Audio, Sensors), Edge Computing, and 6G Networks for Tactical Operations
6. Defensive and Offensive AI in Cyber Operations within the Global Security Environment
7. Innovative Solutions in Transportation and Materials for Enhanced Operational Mobility and Supply Chain Resilience
8. Emerging Technologies for Intelligent Vehicles, Hybrid Propulsion, Ultra-Light Materials, and Resilient Structures for Logistics and Combat Equipment
9. Autonomous Weapons and the Ethics of Digital Warfare: Challenges for International Humanitarian Law
10. The Role of Technological Diplomacy in Reconfiguring the Global Military Balance of Power: Current Challenges for the International Security System

ORGANIZING COMMITTEE

CHAIRPERSON: Dorel BADEA

MEMBERS:

| | |
|-----------------------|-------------------|
| Lavinia AGAVRILLOAIEI | Annamaria SÂRBU |
| Alina BABOȘ | Alexandru STOIAN |
| Vasile CĂRUȚAȘU | Mirela ȘORECĂU |
| Alina CIUHUREANU | Cristian ȚOPA |
| Constantin GRIGORAȘ | Radu MONORANU |
| Vlad MUNTEAN | Ștefan VANCEA |
| Gabriel NOJA | Mirela CĂPÎLNEAN |
| Emanuelle PERTĂ | Iulia BOBOI |
| Alexandru PINTILI | Simona DORCA |
| Marius PRICOPI | Dana MATEI |
| Diana RANF | Cristina ȚUNDRECI |
| Raluca RUSU | |

DEADLINES

- Paper submission: ~~January 15, 2026~~ **January 30, 2026**
- Notification of paper acceptance: ~~February 06, 2026~~ **February 24, 2026**
- Payment confirmation: ~~February 20, 2026~~ **February 27, 2026**

REGISTRATION

- Information about registration and paper submission are available at: https://www.armyacademy.ro/engleza/conference_EDT.php
- An author can submit two papers at most; max. three co-authors per article
- Papers presented at the conference will be considered for publication, in a special issue of the ACTA TEHNICA NAPOCENSIS (<https://wos-journal.info/journalid/3242>)

Paper selection:

- the International Scientific Committee will consider all papers received until the submission deadline;
- the authors will use the ACTA TEHNICA NAPOCENSIS paper template and will strictly follow the instructions provided in it;
- all papers received until the submission deadline will be double-blind reviewed by members of the International Scientific Committee;
- for authors whose language is not English we strongly recommend to use a proofreading service (preferably by an English native speaker or specialist).

Payment details:

- 140 Euro/article, for the publication in the conference proceedings (includes accommodation and meals for one author);
- 80 Euro/person, for the co-authors of an article (only if they will participate in the conference and includes accommodation and meals);
- 65 Euro/person, for the co-authors of an article (only if they will participate in the conference and includes only meals, without accommodation);
- 200 Euro/2 articles (includes accommodation and meals);
- 120 Euro/article or 180 Euro/2 articles - for the International Scientific Committee's Members, Organizing Committee's Members, Scientific Reviewers, teaching staff and military instructors belonging to "Nicolae Bălcescu" Land Forces Academy.

The fee is not to be paid until you receive the evaluation results.

Beneficiary: UM 01512 Sibiu

CUI: 4241117 SWIFT code: RNCBROBU

Foreign participants will pay in the account No. RO30RNCB0227036038450143 opened at ROMANIAN COMMERCIAL BANK.

Romanian participants will pay in the account No. RO57RNCB0227036038450142 opened at ROMANIAN COMMERCIAL BANK.

CONTACT:

Dana MATEI

email: conference.edt@armyacademy.ro

tel. +40269432990 int. 1347