



Coanda Scientific Events

Partners:

SC Carfil SA, Brasov



Romanian Committee for the History and
Philosophy of Science and Technology (CRIFST) of
the Romanian Academy, Bucharest



The 12th Edition of the International Conference
**Redefining Community in
Intercultural Context RCIC'25**
Military Ethics in the Age of Hybridity

The 26th Edition of the International Conference AFASES, 2025
**Scientific Research and
Education in the Air Force**

BRASOV

22-24 May, 2025



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Romanian Committee for the History and
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the Romanian Academy, Bucharest



Thursday, 22nd May, 2025

19:00 Welcome cocktail at “Henri Coandă” Air Force Academy, Officers’ Dining Facility

Friday, 23rd May, 2025

9:00 – 10:00 Registration of participants – “Henri Coandă” Air Force Academy’s Auditorium

10:00 - 10:15 CONFERENCE OPENING – “Henri Coandă” Air Force Academy’s Auditorium

Brig Gen(AF) Assoc Prof **Marius ȘERBESZKI, PhD** (Rector of “Henri Coandă” Air Force Academy)

10:15 - 11:45 PLENARY LECTURES - “Henri Coandă” Air Force Academy’s Auditorium

General (Ret) **Ștefan DĂNILĂ** (Former Chief of General Staff/ Integrated Intelligence Defence and Security Solutions, Bucharest, Romania)

Nick McCARTER (Chief Executive Officer, Chartis Federal/ Periscope Aviation, McLean, VA, United States of America)

Ella Magdalena CIUPERCĂ (National Institute for Research and Development in Informatics, ICI, Bucharest, Romania)

11:45 - 12:00 Coffee Break

12:00 - 13:30 PARALLEL PANELS

13:30 - 14:30 Lunch Break/ Officers’ Dining Facility

14:30 - 16:00 PARALLEL PANELS

16:15 - 17:30 PARALLEL PANELS

18:00 - 23:00 Conference Dinner, The Columns Hall, Officers’ Club

Saturday, 24th May, 2025

10:00 - 14:00 Guided tour. The Black Church, The First Romanian School

14:00 Departure of participants

Redefining Community in Intercultural Context RCIC'25

Military Ethics in the Age of Hybridity

RCIC '25 CONFERENCE PROGRAMME

Friday, 23rd May, 2025 12:00-13:30

ETHICS IN THE AGE OF HYBRIDITY / ROOM F.E.3-11	COGNITIVE WARFARE/ ROOM F.E.2-11
<p>Chairs: Aura CODREANU & Raluca LEVONIAN</p> <ol style="list-style-type: none"> 1. Mariselda TESSAROLO (University of Padua) – Ethics and the Spirit of the Times: Logic of the General vs. Logic of the Singular 2. Emanuele STOCHINO (University of Milan) – Evolution of Resilience and Hybridity in the Psycho-Social Field and Their Use in Certain Aspects of Armed Service Practice 3. Daniela Felicia ROMAN (Military Academy of the Armed Forces, Chişinău) – Military Ethics, Gender, and Warfare 4. Răzvan-Lucian ANDRONIC (“Henri Coandă” Air Force Academy, Braşov), Vasile MARINEANU, Iulian ȚĂRANU (Military Psychology Society, Bucharest), Ole BOE (The Norwegian Police University College, Oslo) – Methodologies for Assisting Veterans with Post-Traumatic Stress Syndrome in NATO Countries 5. Aura CODREANU (Regional Department of Defense Resources Management Studies, 'Carol I' National Defense Academy, Brasov) – Moral Disengagement in Contemporary Warfare. Ethical Implications of Remote and AI-driven Combat Technologies 6. Nicolae SFETCU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – The Ethics of Artificial Intelligence for Humanity: Risks and Challenges 	<p>Chairs: Ella CIUPERCĂ & Ioana LEUCEA</p> <ol style="list-style-type: none"> 1. Adrian LESENCIUC, Iasmina-Georgiana SAUCIUC (“Henri Coandă” Air Force Academy, Braşov), Agata IAGIEŁŁO-TONDERA (Military University of Technology, Warsaw)– <i>Nobody</i>: The Name behind Informational Blindness. The Russian Information Warfare in Ukraine 2. Ancuța RUSU (“Henri Coandă” Air Force Academy, Braşov) – Military Ethics in the Light of Cognitive Warfare 3. Diana SOARE (The National University of Political Studies and Public Administration, SNSPA, Bucharest) – European Defense and Current Hybrid Threats 4. Teodora-Ioana MORARU (“Mihai Viteazul” National Intelligence Academy, Bucharest) – Classifying Russian PSYOPS and Countermeasures. Implications for European Security 5. Cosmina NECULCEA (“Henri Coandă” Air Force Academy, Braşov) – The Role of Mass-Media in Ukraine War. Case Study: Kursk Incursion. 6. Ammar El BENNI (Romanian Senate, Bucharest) – War on Gaza Strip 2023-2024

COMMUNITIES AND INTERCULTURAL COMMUNICATION/ ROOM F.E.3-11	HYBRIDITY AND VIRTUAL COMMUNITIES/ ROOM F.E.2-11
<p data-bbox="178 286 703 315">Chairs: Daniela NAGY & Răzvan ANDRONIC</p> <p data-bbox="97 358 786 459">1. Adina-Elena BOCAI (“Mircea cel Bătrân” Naval Academy, Constanta) – Undermining Media Credibility, a Threat of National Security</p> <p data-bbox="97 501 786 745">2. Angela-Karina AVĂDĂNEI (“Mihai Viteazul” National Intelligence Academy, Bucharest), Adrian LESENCIUC (“Mihai Viteazul” National Intelligence Academy, Bucharest/ “Henri Coandă” Air Force Academy, Braşov) – Romanian-Hungarian Relations in Mixed Communities. A Case Study of Intercultural Communication Patterns in Sfântu-Gheorghe</p> <p data-bbox="97 788 786 925">3. Mihai VACARIU (Faculty of Journalism and Communication Sciences, University of Bucharest) – Manipulation and Disinformation in the 2024 Romanian Presidential Elections</p> <p data-bbox="97 967 786 1068">4. Raluca LEVONIAN (“Ovidius” University of Constanţa, Constanţa, Romania) – Legitimation Strategies in EU Parliamentary Discourse on International Security</p> <p data-bbox="97 1111 786 1196">5. Tania MORARU-ZAMFIR (“Henri Coandă” Air Force Academy, Braşov) – On Some Semantic Properties of the Romanian “At/To”</p> <p data-bbox="97 1238 786 1375">6. Daniela NAGY (“Henri Coandă” Air Force Academy, Braşov) – What’s in a ‘Word’? Analyzing Military Acronyms, Abbreviations and Initialisms in the Context of Efficient Communication in English</p>	<p data-bbox="863 286 1441 315">Chairs: Ioana LEUCEA & Daniela Felicia ROMAN</p> <p data-bbox="813 358 1492 638">1. Ella-Magdalena CIUPERCĂ (National Institute for Research and Development in Informatics, ICI Bucharest), Veronica MIHALACHE (Independent researcher), Alexandru STOIAN (National Institute for Research and Development in Informatics – ICI Bucharest) - Fighting Online Harassment: A Double-Edged Sword of Emerging Technologies and Legal Frameworks</p> <p data-bbox="813 680 1492 817">2. Carola FREY (The National School of Political Science and Public Administration, Bucharest) – AI: The Beast that Feeds the Beast in the Perfect Storm of Hybrid Warfare</p> <p data-bbox="813 860 1492 963">3. Ioana LEUCEA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – What About the Transition from Digital Era to Gutenberg Galaxy?</p> <p data-bbox="813 1005 1492 1176">4. Mihai-Ştefan VĂCARU-SORA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – From Totalitarian Legacy to Collective Security. A Constructivist and CLA-Based Study of Eastern NATO Countries</p> <p data-bbox="813 1218 1492 1346">5. Ioana LEUCEA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – Words, images and identities: competing for influence into the strategic communication realm.</p> <p data-bbox="813 1388 1492 1559">6. Alexandru ALEXANDRU (The National School of Political Science and Public Administration, Bucharest) – The Role of Artificial Intelligence in Shaping Military Ethics amid Hybrid Threats: A Romanian Perspective on Conspiracy Theories and International Communication</p> <p data-bbox="813 1601 1492 1771">7. Nicolae SFETCU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Challenges and risks of Artificial Intelligence in Electronic Warfare</p>

The 26th Edition of the International Conference AFASES, 2025

Scientific Research and Education in the Air Force

AFASES 2025 CONFERENCE PROGRAMME

Friday, 23rd May, 2025 12:00-13:30

MILITARY SCIENCES. HISTORY OF MILITARY SCIENCE & TECHNOLOGY / ROOM F.E.3-4	HUMANITIES & SOCIAL SCIENCES/ ROOM F.E.2-10
<p>Chairs: Tiberiu TĂNASE & Traian OSTAIE</p> <p>1. Sevladin STOYKOV, Ivo RADULOV, Zhivo PETROV (Rakovski National Defence College, Sofia) – The Role of the Rakovski National Defence College in Increasing the Resilience of the National Security System</p> <p>2. Traian OSTAIE (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Learned Lessons through Clausewitz Perspective</p> <p>3.Tiberiu TĂNASE, Camelia-Elena GOLEANU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Information, a Weapon of War</p>	<p>Chairs: Marius MILANDRU & Cristian DRAGOMIR</p> <p>1. Angela-Karina AVĂDĂNEI (“Mihai Viteazul” National Intelligence Academy, Bucharest), Adrian LESENCIUC (“Mihai Viteazul” National Intelligence Academy, Bucharest/ “Henri Coandă” Air Force Academy, Braşov) – Hungarian Language Media in Romania: Setting Minority Perceptions of Russia’s War Against Ukraine</p> <p>2. Margarita GAVRILOVA (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Proactive Learning-Shifting Towards a More Innovative Higher Education</p> <p>3. Pavlin TSONEV (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Enhancing Student Assessment: a Dual-Method Approach</p> <p>4. Valya TSVETANOVA (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Framing Aerodynamic Terminology: a Linguistic Approach Preliminary Study </p> <p>5.Marius MILANDRU (“Henri Coandă” Air Force Academy, Braşov) – Implementation of Project Management within the Military Organization</p>

AERONAUTICAL AND ATMOSPHERIC SCIENCES [I]/ ROOM F.E.3-4	ENGINEERING AND APPLIED SCIENCES/ ROOM F.E.2-10
<p>Chairs: Vasile PRISACARIU & Danail DAMYANOV</p> <p>1. George-Răzvan BUICAN, Robert APREOTESEI (Transilvania University, Brasov) – Design and Experimental Evaluation of an Ion Wing Prototype</p> <p>2. George-Răzvan BUICAN, Alexandrina IVAȘCU, Andrei BENCZE (Transilvania University, Brasov) –Bio Composite Materials as a Sustainable Solution for Modern Industries</p> <p>3. Andrei BENCZE, George-Răzvan BUICAN (Transilvania University, Brasov) – Design Optimization Using FEM for Cargo Floor Strut</p> <p>4. Andrei BENCZE (Transilvania University, Brasov) – Study on the Use of 3D Printed Parts for Aircrafts and Drones</p> <p>5. Darius BOGHIEZ, George-Răzvan BUICAN (Transilvania University, Brasov) – Design and Experimental Evaluation of an Ion Engine Prototype</p> <p>6.Danail DAMYANOV (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Structural Analysis. The Malfunctions of the Gas Turbine Engine Ai-25TI</p> <p>7. Vasile PRISACARIU, Alexandru-Ioan CIUR, (“Henri Coandă” Air Force Academy, Brașov) – Aerodynamic Analysis Regarding the Flight Parameters of Modern Jet Trainers</p> <p>8. Alexandru-Nicolae TUDOSIE (University of Craiova), Elena-Elisa DRAGOMIR (In Flight Test Research and Innovation Center, Craiova), Daniel-Cristian DRAGOMIR (University of Craiova) – Automatic Control of a Supersonic Air Inlet with Variable Inner Cross-Section</p>	<p>Chairs: Cornel ARAMĂ & Liviu GĂINĂ</p> <p>1. Gabriel ANASTASIU (“Dragos Voda” National College, Câmpulung Moldovenesc), Andreea Valentina ANASTASIU (Polytechnic University, Cluj-Napoca), – Aspects of Hamming Encryption Using Raspberry PI Pico</p> <p>2.Cornel ARAMĂ (“Henri Coandă” Air Force Academy, Brașov) – A Study on Methods to Apply the Energy Conservation Theorem in the Investigation of Traffic Accidents Using Detailed Breakdown of Energies</p> <p>3.Nicolae CONSTANTIN, Anișor NEDELCU (Transilvania University, Brasov) – Enhancing Flood Response in Romania: The Role of AI and Integrated Alarm Systems</p> <p>4.Andrei LUCHIAN (Transilvania University, Brasov) – Cybersecurity in Airports – Challenges, Technologies, and Protection Strategies for Critical Infrastructure</p> <p>5.Liviu GĂINĂ, Alin MECLEA (“Henri Coandă” Air Force Academy, Brașov) – Energy Independence: An Essential Pillar for Critical Infrastructure Resilience</p>

Friday, 23rd May, 2025 16:15-17:30

AERONAUTICAL AND ATMOSPHERIC SCIENCES [II]/ ROOM F.E.3-4	AERONAUTICAL AND ATMOSPHERIC SCIENCES [III]/ ROOM F.E.2-10
<p style="text-align: center;">Chairs: Ionică CÎRCIU & Mihai PRICOP</p> <p>1. Ionică CÎRCIU (“Henri Coandă” Air Force Academy, Braşov) – Versatility, Adaptability and Flexibility of Helicopter Armament Variants</p> <p>2. Constantin Adrian MIHAI, Romulus LUNGU (Polytechnic University, Bucharest) – Nonlinear Dynamics and Adaptive Control Using The Dynamic Inversion Concept and Neural Networks for a Guidance Gyrosystem (GG) With One Gyroscope and Two Suspension Gimbals (GAR) Part 1. Obtaining the Nonlinear Dynamic Model</p> <p>3. Constantin Adrian MIHAI, Romulus LUNGU (Polytechnic University, Bucharest) – Nonlinear Dynamics and Adaptive Control Using The Dynamic Inversion Concept and Neural Networks for a Guidance Gyrosystem (GG) With One Gyroscope and Two Suspension Gimbals (GAR) Part 2. Adaptive Control Architecture Design and Validation</p> <p>4. Mihai PRICOP, Ionuţ BUNESCU, Vlăduţ HOTHAZIE, Mihăiţă Gilbert STOICAN, Leonida NICULESCU (“Elie Carafoli” National Institute for Aerospace Research and Development, Bucharest) – Impact Theory Applied for Hypersonic Vehicles</p> <p>5. Mihai PRICOP, Ionuţ BUNESCU, Vlăduţ HOTHAZIE, Mihăiţă Gilbert STOICAN (“Elie Carafoli” National Institute for Aerospace Research and Development, Bucharest) – Identification of Optimal Dihedral Angle of an X-Wing Loitering Munition</p>	<p style="text-align: center;">Chairs: Adrian PITICAR & Eduard MIHAI</p> <p>1. Adrian PITICAR, Alexandru TUDOR (“Henri Coandă” Air Force Academy, Braşov) – Increase in freezing level height in Romania over the 1980-2024 period</p> <p>2. Marilena-Ioana ZUZEAC, Bogdan ANTONESCU (University of Bucharest) – The Climatology of Aviation Hazards Impacting Romanian Airports</p> <p>3. Vasile PRISACARIU, Răzvan MĂNESCU (“Henri Coandă” Air Force Academy, Braşov) – Considerations for of Atmospheric and Environmental Data Acquisition with Quadcopter UAV</p> <p>4. Simona ANDREI, Mariana ADAM, Alexandru DANDOCSE (National Institute for Research and Development in Optoelectronics - INOE 2000) – The use of CAMS products for supporting the atmospheric monitoring and air quality assessment in Romania.</p> <p>5. Marius TUTUNEA (“Henri Coandă” Air Force Academy, Braşov) – Research of the Ground Mobile UAV Stations Used in Search and Rescue Missions</p> <p>6. Eduard MIHAI (“Henri Coandă” Air Force Academy, Braşov) – The Future of Air Navigation in the Context of Evolving Artificial Intelligence</p>