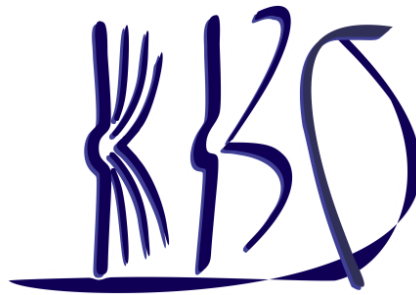


**“NICOLAE BĂLCESCU”
LAND FORCES ACADEMY OF SIBIU**



**THE 30TH INTERNATIONAL SCIENTIFIC CONFERENCE
THE KNOWLEDGE-BASED ORGANIZATION**



PROGRAMME

June 13-15, 2024

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Kirsten WEIDE-ZAAGE, Leibniz University Hannover, Hannover, Germany.

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- Simona-Emilia DORCA
- Elena PLEȘANU
- Maria-Cristina ȚUNDRECI

KBO 2024 Agenda

Day 1: Thursday, June 13	
15.00-22.00	Arrival of the Participants
19.00-20.00	Dinner Venue: Bldg. J1 – Mess Hall
Day 2: Friday, June 14	
07.30-08.00	Breakfast Venue: Bldg. J1 – Mess Hall
08.10-08.25	Romanian Flag Raising Ceremony ¹ Venue: The Parade Ground of “Nicolae Bălcescu” Land Forces Academy
08.30-09.00	Registration of the Participants Venue: “Ștefan cel Mare” Auditorium
09.00-10.00	<p>Official Opening:</p> <ul style="list-style-type: none"> ● arrival of the official guests; ● singing of the “Gaudeamus” student anthem; ● opening remarks from BG Prof.Eng. Ghiță BÂRSAN, PhD, commandant/rector of the LFA; ● message from the President of the Military Science Section of the Academy of Romanian Scientists, GEN (Ret.) Prof. Teodor FRUNZETI, PhD; ● message from the President of the Technical Mechanics Section of the Technical Sciences Academy of Romania, Prof.Eng. Costică ATANASIU, PhD; ● message from the President of the Academy of Romanian Scientists, Prof.Eng. Doina BANCIU, PhD delivered by Prof.Eng. Anton HADĂR, PhD, Vice president of the Academy of Romanian Scientists; ● award of the title of Honorary Senator of the Land Forces Academy to: <ul style="list-style-type: none"> – COL (Ret.) Ovidiu PURDEA-SOMEȘ, Editor-in-chief of “Military Horizon” – the newspaper of “Gemina” 4th Infantry Division and editor-in-chief of The Land Forces Review;

¹ In case of bad weather, the activity will be canceled.

	<ul style="list-style-type: none"> – Prof.Eng. Doina Liana PÎSLĂ, PhD, Director of the Research Center for Industrial Robots Simulation and Testing and Director of the Council for Doctoral Studies of the Technical University of Cluj-Napoca; – Assoc.Prof. Raluca VIMAN-MILLER, PhD, Associate Department Head and Associate Professor at University of North Georgia, USA, Department of Political Science and International Affairs; ● <i>Knowledge, Power and Freedom</i> – presentation by Assoc.Prof. Raluca VIMAN-MILLER, PhD, University of North Georgia; ● <i>Russia’s Hegemonic War Started in the Black Sea</i> – presentation by Assoc.Prof. Silviu NATE, PhD, “Lucian Blaga” University of Sibiu; ● <i>Advances in Simulation of Metal Forming Processes</i> – presentation by Acad. Prof.Eng. Dorel BANABIC, PhD, the President of the Technical Science Section of the Romanian Academy; <p>Venue: “Ștefan cel Mare” Auditorium</p>
10.00-10.30	Coffee break Venue: “Ștefan cel Mare” Auditorium
10.30-13.30	Paper Presentations/Poster Display (Designated Rooms)
13.30-14.30	Lunch Venue: Bldg. J1 – Mess Hall
14.30-17.00	Paper Presentations/Poster Display (Designated Rooms) Tour of the Land Forces Academy
17.00-18.00	Leisure Activities
18.00-22.00	Official Dinner Venue: Bldg. V6 – Mess Hall
Day 3: Saturday, June 15	
08.00-09.00	– Breakfast Venue: Bldg. J1 – Mess Hall
09.00	– Departure of the Participants



**Academia de Științe
Tehnice din România**

**Technical Sciences
Academy of Romania**

ROUND TABLE

organized by the Romanian National Committee for Theoretical and Applied Mechanics on 14 June 2024, in the framework of the 30th International Scientific Conference “THE KNOWLEDGE-BASED ORGANIZATION”, organized at the “Nicolae Bălcescu” Land Forces Academy of Sibiu

1. Opening remarks from Acad. Prof. Eng. **Dorel BANABIC**, PhD, the President of the Technical Science Section of the Romanian Academy.
2. Message from the President of the Technical Mechanics Section of the Technical Sciences Academy of Romania, Prof. Eng. **Costică ATANASIU**, PhD.
3. “Relationship of Romanian associations in the field of theoretical mechanics with international fora” – presentation by Prof. Eng. **Liviu MARSAVINA**, PhD, Head of the Department of Strength of Materials from POLITEHNICA University of Timișoara.
4. Open discussion.

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Venue: “Marshal Averescu” Auditorium
Building: B; 3rd Floor; Room: 81

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Building: B; 3rd Floor; Room: 80

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Building: B; 3rd Floor; Room: 67

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PANEL 1: SECURITY AND DEFENCE

Chairpersons: Paul TUDORACHE
Raluca VIMAN-MILLER

Venue: “Marshal Averescu” Auditorium
Building: B; 3rd Floor; Room: 81

1. *Perceptions of Transformational and Transactional Leadership Behaviors within Military Hierarchies*, **Alexandru BABOȘ***, **Marian Sorin RUSU****, **George BUCĂȚA***, *“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, **51st Special Operations Battalion “Eagles”, Târgu Mureș, Romania
2. *Polish Humanitarian Aid and Military Assistance to Ukraine Fighting Russia*, **Tomasz BAŁ**, University of Law and Administration, Rzeszów, Poland
3. *Horizontal and Vertical Integration of Law of Armed Conflict into Military Academy Curriculum*, **Alin BODESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
4. *Implementing Small Commercial Drones in Land Forces Operations: Considerations for Optimizing ISR (Intelligence, Surveillance, and Reconnaissance)*, **Lavinia BOJOR**, **Laurențiu GRIGORE**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
5. *Environmental Effects of Military Conflicts*, **Daniela CĂRUȚAȘU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
6. *The Use of Artificial Intelligence and Autonomous Weapon Systems in Military Operations*, **Ionuț Alin CÎRDEI**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
7. *European Union Directive on the Fight against Money Laundering and the Financing of Terrorism from the Aspect of Human Rights*, **Boženko ĐEVOIĆ***, **Lidija ĐEVOIĆ****, *Ministry of Defense, Zagreb, Republic of Croatia, **Vista-Consulting d.o.o. Zagreb, Republic of Croatia
8. *Aspects of the Impact of the Modern Security Environment on the Organisation of Ammunition Procurement in Operations*, **Miroslav Stefanov DIMITROV**, **Marin GLUSHEV**, “G. S. Rakovski” National Defence College, Sofia, Bulgaria

9. *Diplomacy in Expansion. Promoting Knowledge through International Relations*, **Anca DINICU, Dumitru IANCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
10. *Interrogation – Contemporary Humint Trends and Challenges*, **Tomasz GOLEBIEWSKI**, NATO HUMINT Centre of Excellence
11. *Countering Unmanned Aircraft Systems – A Multi-Domain Effort*, **Constantin GRIGORAȘ, Octavian-Ștefan MUȘAT**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
12. *Determinations of the Strategic Military Actions on Economic Actions in the Conditions of Information Technology and Nonlinear Warfare*, **Laurențiu GRIGORE, Laviniu BOJOR**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
13. *The Integration of the Western Balkans into the EU*, **Mariya HADZHIPETROVA-LACHOVA**, “Neofit Rilski” South-West University, Blagoevgrad, Bulgaria
14. *Comparative Analysis of the Content of Combat Orders in the Yugoslav People's Army and Operational Orders in the Serbian Armed Forces*, **Miroslav JOVANOVIĆ, Mladen KOJIĆ, Slaviša JOTIĆ, Vinko ŽNIDARŠIČ**, Military Academy, University of Defence, Belgrade, Republic of Serbia
15. *The Soviet Army on the Territory of the Moldovian SSR in the Years 1944-1950 – The Model of an Army of Occupation*, **Anatol LEȘCU**, “Alexandru cel Bun” Military Academy, Chișinău, Republic of Moldova
16. *Security Culture, Evolution, and Particularities*, **Ileana-Gentilia METEA**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
17. *Specific Approaches to Augmenting Logistics Planning in Joint Multinational Operations*, **Gheorghe MINCULETE**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
18. *Analysis on the Actions of Ukrainian Special Operations Forces in the Russian-Ukrainian Conflict (February 2022 – February 2024)*, **Mihai Marcel NEAG, Daniel SOLESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
19. *Operational Efficiency through Optimization of Education and Training Processes in NATO Missions*, **Sorin PÎNZARIU, Andra-Ioana PÎNZARIU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

20. *An Overview of the Most Effective Technical Means Used for Various Military Engineering Mission, with Highlights on Their Interoperability*, **Stelian POPESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
21. *The Influence of Non-Kinetic Actions on Multi-Domain Operations Command and Control*, **Aurelian RAȚIU***, **Claudiu-Marius SĂLĂVĂSTRU****, * “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, **Multinational Corps South-East, Sibiu, Romania
22. *Mission Command in Multi-Domain Operations*, **Claudiu-Marius SĂLĂVĂSTRU***, **Aurelian RAȚIU****, *Multinational Corps South-East, Sibiu, Romania, ** “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
23. *Ecological Component of the Russian-Ukrainian War*, **Olena SHEVCHENKO**, **Kira HORIACHEVA**, Taras Shevchenko National University of Kyiv, Ukraine
24. *The War of Hegemony: Power Against Freedom*, **Mădălina STRECHIE**, University of Craiova, Romania
25. *Deciphering the Physiognomy of the Military Operational Environment – Factors and Characteristics*, **Laura-Alexandra TENE***, **Paul TUDORACHE****, * “Mihai Viteazul” 30th Guards Brigade, Bucharest, Romania, ** “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
26. *Tribute to Those who Defy Death*, **Mircea VLADU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
27. *Selection of Landing Site for Infantry River Crossing Using Aluminum Boat M70: Application of DIBR and Topsis Method*, **Vinko ŽNIDARŠIĆ**, **Katarina DOJIĆ**, **Lazar MILIĆ**, Military Academy, University of Defence, Belgrade, Republic of Serbia

PANEL 2: EDUCATION AND MULTICULTURALITY

Chairpersons: **Gabriela MIHĂILĂ LICĂ**
Brândușa-Oana NICULESCU

Venue: “Marshal Prezan” Auditorium
Building: B; 3rd Floor; Room: 80

1. *Teaching Military Terminology by Means of Translations*, **Anca BÎRSAN**, Communications, Information Technology and Cyber Defense Military School, Sibiu, Romania
2. *Game-Based Learning in Modern Military Education: Digital Wargaming as a Tool for Tactical Training*, **Laviniu BOJOR**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
3. *Team Size and Its Influence on the Teamwork and Communication*, **Ștefania BUMBUC**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
4. *Cultural Diversity between Cross-Cultural Adjustment and Cultural Shock*, **Aniela Ioana CORLĂTEANU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
5. *Mastering Autonomy: The Power of Self-Regulated Learning in Higher Education*, **Isabela-Anda DRAGOMIR**, **Brândușa-Oana NICULESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
6. *The Relevance of Handwriting in a Tech-Driven Academia*, **Daniela Elena DURALIA**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
7. *Linguistic Altitude: The Significance of Formulaic Language in Aviation English*, **Vanya KATSARSKA**, “Georgi Benkovski” Air Force Academy, Dolna Mitropolia, Bulgaria
8. *Mentor and Mentored Person. Relationships and Perspectives*, **Elena-Lucia MARA***, **Lucia-Larissa MORAR****, * “Lucian Blaga” University of Sibiu, Romania, ** “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
9. *Specific Physical Training of Future Officers for Actions in Mountain Environments*, **Fabiana MARTINESCU-BĂDĂLAN**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

10. *Considerations on the Contemporary Revisioning of the American Dream*, **Gabriela MIHĂILĂ LICĂ**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
11. *The Role of Authentic Materials in EFL Education: Maximizing Student Engagement and Language Acquisition*, **Corina Mariana MITRULESCU**, **Alina Gabriela NEGOESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
12. *Rhetoric in Times of Conflict: A Study of Famous War-Time Speeches*, **Alina-Elena ONEȚ**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
13. *The Role and Importance of Interactive Methods in Stimulating Teaching Activities with Medical Students*, **Maria-Dorina PAȘCA**, “George Emil Palade” University of Medicine, Pharmacy, Science and Technology, Târgu Mureș, Romania
14. *The Connection between Organizational Structure and Identity and the Conflict Potential of the Organization*, **Raluca RUSU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
15. *The Motor Capacity – The Basic Pillar of the Training, Consolidation and Perfection of Combat Skills*, **Robert STĂNCIULESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
16. *The Development of Perspectives on Cultural Anthropology with Applicability in the Military Operational Environment*, **Maria Lucia TALMAȚCHI**, **Lucian ISPAS**, **Andra-Ioana PÎNZARIU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
17. *Challenging Mathematic Task-Types for Students Finishing 7th Grade in Bulgarian Schools*, **Pavlin TSONEV**, “Georgi Benkovski” Air Force Academy, Dolna Mitropolia, Bulgaria

PANEL 3: ECONOMIC AND ADMINISTRATIVE SCIENCES

Chairpersons: Teodora-Aurelia DRĂGHICI
Cristina BĂTUȘARU
Marian DOBRANSCHI

Venue: “Dimitrie Cantemir” Auditorium
Building: B; 3rd Floor; Room: 67

Invited speakers:

The Role of the National Bank of Romania in Supporting the General Economic Policy of the State, **Petru GORON, Anca TUDOR, Liliana CACOVEAN**, National Bank of Romania, Sibiu Agency

Posters:

1. *Targeting Russian Oil Refineries*, **Markus BERNHART**, University of Applied Military Sciences, Wiener Neustadt, Austria
2. *Identifying Accounting Information Needs and Sources within Organizations*, **Alina CIUHUREANU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
3. *Growth, Taxes and Guns: A Multifaceted Analysis of Military Expenditure Drivers*, **Marian DOBRANSCHI, Valentin PÎRVUȚ**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
4. *Identity Elements of the Romanian State in Constitutional Context*, **Teodora-Aurelia DRĂGHICI**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
5. *The Minimum Wage under the Pressure of Some Internal and External Factors of Influence*, **Elena FLORIȘTEANU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
6. *The Impact of Digitalization on the Accounting Profession*, **Sebastian FLOȘTOIU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
7. *“Terminator” Factor – AI Targeting Decision-Making and the Law*, **Sabin GUȚAN**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
8. *Economic and Financial Elements of Critical Infrastructure Augmentation*, **Adrian IURA**, “Lucian Blaga” University of Sibiu, Romania

9. *The Dynamics of Adaptive Reuse of the Romanian Industrial Heritage in the Context of Urban Planning*, **Florentina-Cristina MERCIU***, **Cornel PĂUNESCU****, **George-Laurențiu MERCIU***, **Marian-Andrei VINTILĂ***, *University of Bucharest, Romania, **Technical Sciences Academy of Romania, Bucharest, Romania
10. *Public Financial Control – Financial Policy Instrument of the State*, **Ioan-Gabriel POPA**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
11. *Homo Oeconomicus – Expression of the Theory of Rational Economic Choice*, **Marius Mihai RUSU**, “Ștefan cel Mare” University of Suceava, Romania
12. *Financial Stability – A Priority Objective of the Central Banks*, **Leontin STANCIU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
13. *Legal Aspects in Approaching the National Mobilization System from the Administrative Perspective*, **Alexandru STOIAN**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
14. *The Banker of the Future: Characteristics and Trends*, **Mariana Rodica ȚÎRLEA***, **Iurie CAPRIAN****, **“Dimitrie Cantemir” Christian University Bucharest, Romania*, ***State University of Moldova, Chișinău, Republic of Moldova*
15. *The Potential Effect of Video Games on Tourism in Romania. Case Study: Resident Evil Village*, **Marian-Andrei VINTILĂ**, **Florentina-Cristina MERCIU**, University of Bucharest, Romania

PANEL 4: MANAGEMENT AND LEADERSHIP

Chairpersons: Elida-Tomița TODĂRIȚĂ
Maria CONSTANTINESCU
Dan MIRICESCU

Venue: Artillery Room 1

Invited speakers:

1. *Defense Resources Implications of the Conflict in Ukraine on European Countries*, **Maria CONSTANTINESCU**, Dresmara, “Carol I” National Defense University, Bucharest, Romania
2. *Resilience in Leadership within the European Union – A Work in Progress*, **Oana-Elena BRÂNDA**, “Titu Maiorescu” University, Bucharest, Romania
3. *Analysis regarding the Relationship between the Leader and the Team Members in a Production Company in Romania*, **Dan MIRICESCU***, **Elida-Tomița TODĂRIȚĂ****, **“Lucian Blaga” University of Sibiu, Romania, ***“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

Posters:

1. *Building the Urban Organizational Capability for Resilience as a Matter of Updating Security Education of Community*, **Dorel BADEA***, **Elisabeta-Emilia HALMAGHI***, **Andra-Teodora GORSKI****, **Olga-Maria-Cristina BUCOVETȚCHI*****, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ***“Lucian Blaga” University of Sibiu, Romania, ***University POLITEHNICA of Bucharest, Romania
2. *Certain Methodological Milestones in Research on Political-Military Crisis Management*, **Ruslana GROSU**, “Alexandru cel Bun” Military Academy of Armed Forces, Chișinău, Republic of Moldova
3. *Traditional and Modern Sources of Information “Serving” the Image of the Public Employer – A Generational Perspective*, **Dorota KUREK**, War Studies University, Warsaw, Poland
4. *Establishing Leadership and Authority Skills for Future Officers*, **Viorica LEANCĂ**, “Alexandru cel Bun” Military Academy of Armed Forces, Chișinău, Republic of Moldova
5. *Lateral Social Influences in Organizations: Coworker Support*, **Crenguța Mihaela MACOVEI**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

6. *Synergizing Quality and Legislative Software Requirements: A Holistic Approach across the Software Product Lifecycle*, **Nicoleta Mădălina NIȚĂ***, **Sebastian-Emanuel STAN****, **Aurel Mihail TÎȚU*****, *University POLITEHNICA of Bucharest, Romania, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ***“Lucian Blaga” University of Sibiu, Romania
7. *Embracing Sustainability in Military Management: Challenges and Opportunities*, **Andreea PORANCEA-RĂULEA**, **Cristina BĂTUȘARU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
8. *Bibliometric Analysis on the Creation of Joint Added Value through Organizational Social Responsibility*, **Diana Elena RANF***, **Andra-Teodora GORSKI****, **Cosmin PIELE*****, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ***“Lucian Blaga” University of Sibiu, Romania, ***University of Petroșani, Romania
9. *Considerations regarding Aspects of Resistance to Change within an Organization*, **Alexandru-Marius RIZESCU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
10. *The Digitalisation Impact on Education Level – A Bibliometric Analysis*, **Sebastian-Emanuel STAN**, **Gabriel MĂNESCU**, **Constantin GRIGORAȘ**, **Florin Vasile ILIE**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
11. *New Global Supply Chain Pressures Index. An Analysis of the Inflationary Changes Brought about by Global Supply Chains*, **Robert-Cristian TRIF***, **Dănuț-Dumitru DUMITRAȘCU***, **Diana Elena RANF****, **“Lucian Blaga” University of Sibiu, Romania, ***“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
12. *Daily Routine and Performance Analysis – Parallel between Telework and Work from the Office*, **Anca Victoria ȚÎRLEA**, **Claudiu Vasile KIFOR**, **Raluca Elena DĂNUȚ**, **Sergiu Ștefan NICOLAESCU**, **Roxana Florența SĂVESCU**, “Lucian Blaga” University of Sibiu, Romania
13. *Leadership Approaches from the Perspective of Its Particularities in the Military Organization*, **Cornel ZAMFIRESCU**, Valahia University of Târgoviște, Romania

PANEL 5: TECHNICAL SCIENCES AND TECHNOLOGY

Chairpersons: Hortensia GORSKI
Annamaria SÂRBU

Venue: Artillery Room 2

Invited speakers:

IT Services Security, **Sergiu DILIMOT**, Visma Sibiu (Sibiu IT Cluster)

Oral presentations:

1. *SEM/EDX and FTIR/ATR Behavior of Ammonium Perchlorate under Accelerated Aging in a New Solid Rocket Motor Fuel Composition with Superior Explosive and Mechanical Performance*, **Alexandru MARIN***, **Maria-Daniela SANDU***, **George-Ovidiu IORGA***, **Gabriel EPURE***, **Dănuț-Eugeniu MOȘTEANU****, *CBRN Defence and Ecology Research and Innovation Center, Bucharest, Romania, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
2. *Panels Made of Composite Coated Aramid Fabrics, under Spike Weapon Attack*, **Lorena DELEANU***, **Viorel TOTOLICI RUSU***, **George Ghiocel OJOC***, **George Cătălin CRISTEA****, **Mihail BOȚAN****, **Alexandru Viorel VASILIU***, **Christian POPESCU*****, * “Dunărea de Jos” University, Galați, Romania, **National Institute for Aero-space Research (INCAS) “Elie Carafoli”, Bucharest, Romania, ***CBRN Defence and Ecology Research and Innovation Center, Bucharest, Romania
3. *Experimental Study of Twaron T730 for Two Threats*, **Christian POPESCU***, **Simona SANDU***, **Lorena DELEANU****, **Lucian ȘEICIU*****, **Dan CĂLINESCU***, *Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania, **Faculty of Engineering, “Dunărea de Jos” University, Galați, Romania, ***Faculty of Mechanical Engineering and Mechatronics, University POLITEHNICA of Bucharest, Romania

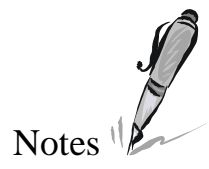
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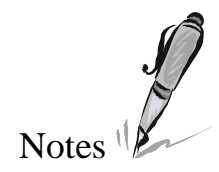
1. *Designing and Testing Multilayer Structures for CBR Air Permeable Protective Suit, with Improved Thermal Burden*, **Florentina ALEXE***, **Raluca-Elena GINGHINĂ***, **Ciprian SAU***, **Claudiu LĂZĂROAIE***, **Dănuț-Eugeniu MOȘTEANU****, *CBRN Defence and Ecology Research and Innovation Center, Bucharest, Romania, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

2. *Considerations on the Impact of Artificial Intelligence on Military Engineering Operations*, **Constantin ANDREI, George BUCĂȚA**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
3. *Modeling of Scenarios Combining Cyber Intelligence Procedures, Methods, Technologies and Techniques*, **Atanas ATANASOV*, Veselina GAGAMOVA*, Ivan HRISTOZOV*, Elitsa PAVLOVA****, * “G. S. Rakovski” National Defence College, Sofia, Bulgaria, **University of National and World Economy, Sofia, Bulgaria
4. *Characterisation of the Electromagnetic Properties of Flower Leaves for 2.45 GHZ ISM Band Biodegradable Electronics Applications*, **Nikolay ATANASOV*, Blagovest ATANASOV**, Nikolay HRISTOV*, Gabriela ATANASOVA***, *South-West University “Neofit Rilski”, Blagoevgrad, Bulgaria, **Technical University of Sofia, Bulgaria
5. *Q-Bernstein-Schurer Operators on a Triangle with One Curved Side*, **Alina BABOȘ**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
6. *Methods, Models, and Methodologies for Numerical Modeling of Projectile Impact on a Plate*, **Mihaela-Cristiana BADEA*, Anton HADĂR*, Vasile NĂSTĂSESCU**, Ghiță BÂRSAN***, Alina ADETU****, Cătălin ADETU******, *University POLITEHNICA of Bucharest, Romania, ** “Ferdinand I” Military Technical Academy, Bucharest, Romania, *** “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ****Romanian Air Force, RoAF Bucharest, Romania
7. *Technological Processes for the Production of Sustainable Aviation Fuels*, **Ivan BENKOV**, “Georgi Benkovski” Air Force Academy, Dolna Mitropolia, Bulgaria
8. *Approaches to Handling Major Incidents Involving Chemical, Biological, Radiological, and Nuclear Hazards*, **Dan CĂLINESCU*, Daniela SANDU*, Răzvan DUMITRESCU*, Christian POPESCU*, Florentina ALEXE*, Claudiu MARGIN****, *Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania, ** “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
9. *Exploring the Impact of Emerging and Disruptive Technologies Development on Evolution of Industry 5.0*, **Marin-Marian COMAN***, Claudiu-Vasile KIFOR**, Cosmin PIELE*****, * “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ** “Lucian Blaga” University of Sibiu, Romania, ***University of Petroșani, Romania

10. *Development and Characterization of Novel Illumination Pyrotechnic Formulations*, **Florin DÎRLOMAN***, **Gabriel-Flavius NOJA****, **Adrian ROTARIU***, **Traian ROTARIU***, **Eugen TRANĂ***, **Ovidiu IORGA*****, **Narcis GÎLCĂ***, **“Ferdinand I” Military Technical Academy, Bucharest, Romania, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, ***CBRN Defence and Ecology Research and Innovation Center, Military Equipment and Technologies Research Agency, Bucharest, Romania
11. *Agile Project Management in the Age of Digital Transformation: Exploring Emerging Trends*, **Hortensia GORSKI***, **Ilie GLIGOREA***, **Adrian BRUDAN****, **Romana OANCEA***, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, **West University of Timișoara, Romania
12. *Electromagnetic Field Monitoring by Fixed Stations in Romania: Data Processing Methods and Outcomes*, **Simona MICLĂUȘ***, **Teodor PETRITA****, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania, **University POLITEHNICA of Bucharest, Romania
13. *Shitsuke, Sustain – The Five Step of the 5S Methodology*, **Nicolae MORO**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
14. *Evaluation of the Temperature Sensitivity of the Lachrymatory Irritant 2-Chlorobenzalmalonitrile by Differential Scanning Calorimetry and Gas Chromatography-Mass Spectrometry*, **Mihail MUNTEANU***, **Maria Daniela SANDU***, **Cristiana EPURE***, **Tudor-Viorel ȚIGĂNESCU****, * CBRN Defence and Ecology Research and Innovation Center, Bucharest, Romania, ***“Ferdinand I” Military Technical Academy, Bucharest, Romania
15. *A New Method for Solving the Integrals of the Mohr-Maxwell Method for Displacements Calculus of Bent Straight Bars*, **Vasile NĂSTĂSESCU***, **Ghiță BÂRSAN****, **“Ferdinand I” Military Technical Academy, Bucharest, Romania, ***“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
16. *Portable Isolation Unit with Positive and Negative Pressure, for Contaminated People’s Transportation*, **Ciprian SAU***, **Raluca-Elena GINGHINĂ***, **Florentina ALEXE***, **Dan CĂLINESCU***, **Dănuț MOȘTEANU****, *Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania, ***“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
17. *Improving Sentiment Analysis with Neural Networks*, **Annamaria SÂRBU**, **Alexandru ROMANIUC**, **Anca GAVRILAȘ**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

18. *Communication Technologies as a Medium for Control and Data Transfer in the Unmanned Aircraft Systems*, **Georgi STANCHEV**, “Georgi Benkovski” Air Force Academy, Dolna Mitropolia, Bulgaria
19. *The Impact of Microplastics and Nanoplastics on Human Digestive, Respiratory and Cardiovascular Systems*, **Adrian Ioan STOIAN**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
20. *Pilot Induced Oscillations of the Small Unmanned Aerial Vehicles*, **Róbert SZABOLCSI**, Óbuda University, Budapest, Hungary
21. *Enhanced Spectrum Monitoring Capabilities Based on Software-Defined Radio Systems: Validation of a Real Time Frequency Hopping Signal Detection*, **Mirela ȘORECĂU*****, **Emil ȘORECĂU*****, **Rareș CÎRSTEA****, **Paul BECHET****, *Technical University of Cluj-Napoca, Cluj-Napoca, Romania, **“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania
22. *Mechanical and Thermal Analysis of a Rocker Arm Shaft Support Based on Finite Element Method*, **Ioan VIRCA**, **Tiberiu GIURGIU**, **Vasile CĂRUȚAȘU**, **Toma PLEȘANU**, “Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania





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