

UNIVERSITY OF THE NATIONAL EDUCATION COMMISSION, POLAND

TOMAS BATA UNIVERSITY IN ZLIN, CZECH REPUBLIC

NATIONAL UNIVERSITY “KYIV AVIATION INSTITUTE”, UKRAINE



**5th *International Workshop on Conflict
Management in Global Information Networks***
co-located with
**5th International Conference
on Cyber Hygiene & Conflict Management
in Global Information Networks**

PROGRAM

Supported by



June 26-27, 2026

Kraków - Kyiv - Zlín

Topics of 5th International Conference on Cyber Hygiene & Conflict Management in Global Information Networks

- Management of Cyber Incidents, Warfare, and Conflicts
- Modern Information and Communication Technologies
- Secure Digital Content Processing for Modern Applications
- Intelligence Systems of Data Processing
- Secure ICT and Social Services
- AI-based Technologies in Cyber Space
- Legal Aspects of Cyber Security and Digital Resilience
- Conflict Management
- Economic Security Management and Information Protection
- Information, Consciousness, and the Digital Age: An Interdisciplinary Discourse
- Cyber Diplomacy and the Impact of Innovations on Law and International Relations
- Cyber Security and Innovation Technologies in Transport
- Critical Infrastructure Protection and Environmental Safety



Workshops

- Workshop on Cyber Hygiene
- Workshop on Advanced Technologies in Cyber Resilience
- Workshop on Conflict Management in Global Information Networks
- Workshop for Young Scientists in Computer Science and Security

Roundtable

SECURE: Security Education Center for Unified Resilience and Effective Communications (ERASMUS-EDU-2024-CBHE, project id 101179818, 2024-2027) <https://erasmus-secure.eu>

Venue

University of the National Education Commission
ul. Podchorążych 2, 30-084 Kraków, Poland

COMMITTEE MEMBERS

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Sergiy Gnatyuk, National University “Kyiv Aviation Institute”, Ukraine

Maksim Iavich, Caucasus University, Georgia

Roman Odarchenko, National University “Kyiv Aviation Institute”, Ukraine

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Workshop on Conflict Management in Global Information Networks Track A

June 26, 2026

Start at 14:00 (CEST)

University of the National Education Commission, Main Bldg., 2nd floor

Moderators – Valeriia Filinovych, Maksym Zaliskyi

14:00 – 14:15

A hybrid explainable machine learning and deep learning framework for IoT Network anomaly detection

Mussa Turdalyuly (META University, Almaty, Kazakhstan)

Nazerke Baisholan (International Engineering and Technological University, Almaty, Kazakhstan)

Sergiy Gnatyuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Karlygash Baisholanova (Al-Farabi Kazakh National University, Almaty, Kazakhstan)

14:15 – 14:30

The impact of generative artificial intelligence on SEO metrics and web content performance

Olha Anisimova (Vasyl’ Stus Donetsk National University, Vinnytsia, Ukraine)

Oleksii Prihunov (Vasyl’ Stus Donetsk National University, Vinnytsia, Ukraine)

Halyna Lukash (Vasyl’ Stus Donetsk National University, Vinnytsia, Ukraine)

14:30 – 14:45

Cybersecurity-metric-driven software quality assessment for critical information and communication systems

Roman Hamretskyi (Independent Researcher, Kyiv, Ukraine)

Viktor Gnatyuk (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

Krzysztof Pytel (University of the National Education Commission, Krakow, Poland)

14:45 – 15:00

A Reproducible methodology for investigating network attacks on corporate infrastructure using an open-source cyber rang

Maksym Delembovskyi (Kyiv National University of Construction and Architecture, Kyiv, Ukraine)

15:00 – 15:15

Modelling of information security threats for airport infrastructure based on digital twin technology

Zarina Poberezhna (Transport Academy of Ukraine, Kyiv, Ukraine)

Tetiana Konrad (University of the National Education Commission, Krakow, Poland)

Dmytro Malnov (Transport Academy of Ukraine, Kyiv, Ukraine)

Ladislav Dorotík (Tomas Bata University in Zlin, Zlin, Czech Republic)

15:15 – 15:30

Modeling the future splinternet using AI driven fragmentation scenarios

Maksim Iavich (Caucasus University, Tbilisi, Georgia)

Vladimer Svanadze (Business and Technology University, Tbilisi, Georgia)

Coffee break

15:30 – 16:00

Track A

Start at 16:00 (CEST)

16:00 – 16:15

Computational methods for best mathematical model building using a new adequacy criterion

Valerii Kuzmin (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Yuliia Petrova (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Alina Osipchuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

16:15 – 16:30

Fast computational methods for panoramic spectrum analysis with hardware artifacts compensation for SDR-based direction finding applications

Fedir Katushonok (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Olga Shcherbyna (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Oleksandr Zadorozhnyi (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Anatolii Simchuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

16:30 – 16:45

Logical inference models based on fuzzy production rules for intelligent cyberthreat detection systems

Yuliia Kostiuik (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

Pavlo Skladannyi (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine; Institute of Mathematical Machines and Systems Problems of the National Academy of Sciences of Ukraine, Kyiv, Ukraine)

Karyna Khorolska (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

Bohdan Bebeshko (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

Volodymyr Sokolov (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

16:45 – 17:00

Baggage X-ray datasets with prohibited items: A survey

Serhii Bielov (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Maksym Zaliskyi (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Krzysztof Sułkowski (University of the National Education Commission, Krakow, Poland)

Olga Shcherbyna (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Roman Saiko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Sebastian Janczura (University of the National Education Commission, Krakow, Poland)

17:00 – 17:15

Trust-aware reliability-based aggregation framework for resilient federated learning in critical infrastructure systems

Stanislava Kudrenko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

Vitalii Alkema (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

Valerii Kozlovskyi (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

Diana Kozlovska (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

17:15 – 17:30

Comprehensive analysis of machine learning classification metrics, algorithmic models, and the nuances of the neutral class

Oleksandr Tkachenko (Central Ukrainian National Technical University, Kropyvnytskyi, Ukraine)

Anna Ilyenko (Scientific Cyber Security Association of Ukraine)

Yelyzaveta Meleshko (Central Ukrainian National Technical University, Kropyvnytskyi, Ukraine)

Oleksandr Ulichev (Central Ukrainian National Technical University, Kropyvnytskyi, Ukraine)

Workshop on Conflict Management in Global Information Networks

Track B

June 27, 2026

Start at 09:00 (CEST)

University of the National Education Commission, Main Bldg., 2nd floor

Moderators – Valeriia Filinovych, Maksym Zaliskyi

09:00 – 09:15

Security-aware centralized network configuration management with automated compliance verification

Oleksandra Yeremenko (Kharkiv National University of Radio Electronics, Kharkiv, Ukraine)

Maksym Trubeko (Kharkiv National University of Radio Electronics, Kharkiv, Ukraine)

Roman Savchenko (Kharkiv National University of Radio Electronics, Kharkiv, Ukraine)

09:15 – 09:30

Authentication of air traffic controllers in LDACS networks based on voice biometrics

Semen Doroshenko (LLC Cast Iron MT, Kyiv, Ukraine)

Georgiy Konakhovych (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

Oleksii Holubnychyi (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

09:30 – 09:45

Information system for the strategic recruitment and retention of academic talent at the technical university

Roman Odarchenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Mariana Krasnoshapka (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Anzhela Lelechenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Bohdan Chumachenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Serhii Chumachenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Artem Polozhentsev (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

09:45 – 10:00

Problems of criminalising cyberterrorist offences and their financing in Ukraine: doctrinal analysis and proposals for legislative amendments

Vladyslav Kubalskyi (V. M. Koretsky Institute of State and Law of the National Academy of Sciences of Ukraine, Kyiv, Ukraine)

Pavlo Kasyanov (Institute for Applied System Analysis, Kyiv, Ukraine; Kyiv School of Economics, Kyiv, Ukraine)

Maksym Kysil (V. M. Koretsky Institute of State and Law of the National Academy of Sciences of Ukraine, Kyiv, Ukraine)

10:00 – 10:15

Legal status of civilian participants in cyber operations during armed conflict

Valeriia Filinovich (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

Assel Mukasheva (Kazakh-British Technical University, Almaty, Kazakhstan)

10:15 – 10:30

Test-driven development approach and tools enhanced by artificial intelligence

Vladyslav Pechenko (3Shape Ukraine, Kyiv, Ukraine)

Serhii Kryvyi (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

10:30 – 10:45

Zero trust architecture for cyber resilience: Mathematical modelling and human factor minimisation

Roman Topala (RMRF, Kyiv, Ukraine)

Bronislav Chramcov (Tomas Bata University in Zlin, Zlin, Czech Republic)

Viktor Gnatyuk (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

10:45 – 11:00

Weak passwords and absence of 2FA: Analysis of a ransomware attack on a university

Mukhit Urazymbetov (Abai Kazakh National Pedagogical University, Almaty, Kazakhstan)

Bakhytzhan Akhmetov (Abai Kazakh National Pedagogical University, Almaty, Kazakhstan)