

UNIVERSITY OF THE NATIONAL EDUCATION COMMISSION, POLAND

TOMAS BATA UNIVERSITY IN ZLIN, CZECH REPUBLIC

NATIONAL UNIVERSITY "KYIV AVIATION INSTITUTE", UKRAINE



INTERNATIONAL CONFERENCE ON
CYBER HYGIENE
& **CONFLICT MANAGEMENT**
— IN GLOBAL INFORMATION NETWORKS —

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

PROGRAM



June 25-27, 2026

Kraków - Kyiv - Zlín

Topics

- 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

Conference Co-Chairs

Sergiy Gnatyuk National University “Kyiv Aviation Institute”, Ukraine

Henryk Noga University of the National Education Commission, Poland

Roman Jasek Tomas Bata University in Zlin, Czech Republic

Conference Vice-Chairs

Roman Odarchenko National University “Kyiv Aviation Institute”, Ukraine

Marek Aleksander State Higher Vocational School in Nowy Sacz, Poland

Bronislav Chramcov Tomas Bata University in Zlin, Czech Republic

International Program Committee (IPC)

Jugoslav Achkoski Military Academy “General Mihailo Apostolski”, North Macedonia

Rui Luis Aguiar University of Aveiro, Portugal

Bakhytzhhan Akhmetov Abai Kazakh National Pedagogical University, Kazakhstan

Jamil Al-Azzeh Al Balqa Applied University, Jordan

Rat Berdibayev Almaty University of Power Engineering and Telecommunications, Kazakhstan

Razvan Bocu Transilvania University of Brasov, Romania

Haruna Chiroma University of Hafr Al Batin, Saudi Arabia

Dmytro Chumachenko University of Waterloo, Canada

Maksym Delembovskyi Kyiv National University of Construction and Architecture, Ukraine

Alla Deveciogullari NTU of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Ukraine

Andrii Dudnik Taras Shevchenko National University of Kyiv, Ukraine

Thierry Oscar Edoh University of Bonn, Technical University of Munich, Germany

Emil Faure Cherkasy State Technological University, Ukraine

Solomia Fedushko Lviv Polytechnic National University, Ukraine

Andrii Fesenko National University “Kyiv Aviation Institute”, Ukraine

Valeriia Filinovych National University “Kyiv Aviation Institute”, Ukraine

Michal Gregus Comenius University in Bratislava, Slovak Republic

Maksim Iavich Caucasus University, Georgia

Kamila Kluczewska-Chmielarz University of the National Education Commission, Poland

Ihor Korobiychuk Warsaw University of Technology, Poland

Tetiana Konrad University of the National Education Commission, Poland

Natalia Kryvinska Comenius University in Bratislava, Slovak Republic

Grzegorz Litawa University of the National Education Commission, Poland

Audrius Lopata Kaunas University of Technology, Lithuania

Viktoriia Lukashenko National University “Kyiv Aviation Institute”, Ukraine
Hanna Martyniuk Mariupol State University, Ukraine
Tetiana Okhrimenko National University “Kyiv Aviation Institute”, Ukraine
Valentín Cardeñoso Payo University of Valladolid, Spain
Zarina Poberezhna National University “Kyiv Aviation Institute”, Ukraine
Artem Polozhentsev National University “Kyiv Aviation Institute”, Ukraine
Krzysztof Pytel University of the National Education Commission, Poland
Irina Roddvik Østfold University College, Norway
Nataliya Shakhovska Lviv Polytechnic National University, Ukraine
Oleksii Smirnov Central Ukrainian National Technical University, Ukraine
Vladimer Svanadze Scientific Cyber Security Association, Georgia
Yuriy Syerov Lviv Polytechnic National University, Ukraine
Viktoriia Sydorenko National University “Kyiv Aviation Institute”, Ukraine
Radek Vala Tomas Bata University in Zlin, Czech Republic
Pavel Varacha Tomas Bata University in Zlin, Czech Republic
Maryna Yevdokymenko Kharkiv National University of Radio Electronics, Ukraine
Petr Zacek Tomas Bata University in Zlin, Czech Republic
Maksym Zaliskyi National University “Kyiv Aviation Institute”, Ukraine
Nur Zincir-Heywood Dalhousie University, Canada

Local Organizing Committee

Bohdan Chumachenko National University “Kyiv Aviation Institute”, Ukraine
Agnieszka Gajewska University of the National Education Commission, Poland
Ladislav Dorotik Tomas Bata University in Zlin, Czech Republic
Sofia Dorovska National University “Kyiv Aviation Institute”, Ukraine
Kateryna Ishchuk National University “Kyiv Aviation Institute”, Ukraine
Kamila Kluczewska-Chmielarz University of the National Education Commission, Poland
Tetiana Konrad University of the National Education Commission, Poland
Mariana Krasnoshapka National University “Kyiv Aviation Institute”, Ukraine
Grzegorz Litawa University of the National Education Commission, Poland
Alla Pinchuk National University “Kyiv Aviation Institute”, Ukraine
Radek Vala Tomas Bata University in Zlin, Czech Republic
Daria Vaskivska National University “Kyiv Aviation Institute”, Ukraine
Petr Zacek Tomas Bata University in Zlin, Czech Republic

Publication Chair

Maksym Zaliskyi National University "Kyiv Aviation Institute", Ukraine

CONFERENCE SCHEDULE

Day 1 – June 25, 2026		
09:30 – 10:30	Registration	<i>Main Bldg., 2nd floor</i>
10:30 – 11:00	Welcome	<i>Main Bldg., 2nd floor</i>
11:00 – 13:00	Keynote Lectures	<i>Main Bldg., 2nd floor</i>
13:00 – 14:00	Lunch	
14:00 – 15:30	Workshop on Cyber Hygiene. Track A	<i>Main Bldg., 2nd floor</i>
14:00 – 15:40	Workshop for Young Scientists in Computer Science and Security	<i>Main Bldg., 1st floor</i>
15:30 – 16:00	Coffee break	
16:00 – 17:00	Workshop on Cyber Hygiene. Track A	<i>Main Bldg., 2nd floor</i>
Day 2 – June 26, 2026		
09:00 – 11:45	Workshop on Cyber Hygiene. Track B	<i>online</i>
10:00 – 11:00	Workshop on Advanced Technologies in Cyber Resilience. Track A	<i>Main Bldg., 2nd floor</i>
11:00 – 11:30	Coffee break	
11:30 – 13:00	Workshop on Advanced Technologies in Cyber Resilience. Track A	<i>Main Bldg., 2nd floor</i>
11:30 – 13:00	Workshop on Advanced Technologies in Cyber Resilience. Track B	<i>Main Bldg., 1st floor</i>
13:00 – 14:00	Lunch	
14:00 – 15:30	Workshop on Advanced Technologies in Cyber Resilience. Track B	<i>Main Bldg., 1st floor</i>
14:00 – 15:30	Workshop on Conflict Management in Global Information Networks	<i>Main Bldg., 2nd floor</i>
15:30 – 16:00	Coffee break	
16:00 – 17:00	Workshop on Conflict Management in Global Information Networks	<i>Main Bldg., 2nd floor</i>
Day 3 – June 27, 2026		
10:00 – 12:00	Roundtable	<i>Main Bldg., 2nd floor</i>
12:00 – 13:00	Closing ceremony	<i>Main Bldg., 2nd floor</i>

Opening Ceremony

June 25, 2026

Start at 10:30 (CEST)

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

Moderator – Sergiy Gnatyuk

Registration

09:30 – 10:30

Welcome

10:30 – 11:00

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

Henryk Noga *University of the National Education Commission, Krakow, Poland*

Roman Jasek *Tomas Bata University in Zlin, Czech Republic*

Keynote Lectures

11:00 – 11:30

Emerging threat landscape in 6G networks

Azamat Imanbayev *Kazakh-British Technical University, Almaty, Kazakhstan*

11:30 – 12:00

PAISES-6G: Pioneering AI-Enhanced Secure 6G Services Framework

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

12:00 – 12:30

Quantum adaptive lattice signatures for next generation secure communications

Maksim Iavich *Caucasus University, Tbilisi, Georgia*

12:30 – 13:00

Legal and regulatory framework for counteracting human trafficking in cyberspace

Kateryna Levchenko *Government Commissioner for Gender Equality Policy of Ukraine*

Lunch

13:00 – 14:00



Workshop on Cyber Hygiene

Track A

June 25, 2026

Start at 14:00 (CEST)

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

Moderators – *Roman Odarchenko, Tetiana Konrad*

14:00 – 14:15

Systematic review on quantum algorithms for solving tasks of linear algebra and statistics

Akmaral Ibraimova (D. Serikbayev East Kazakhstan Technical University, Ust-Kamenogorsk, Kazakhstan)

Tetiana Shmahlii (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Grzegorz Litawa (University of the National Education Commission, Krakow, Poland)

Tetiana Okhrimenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

14:15 – 14:30

A multilevel attributed cyberspace model for cyber threat intelligence in ICT systems

Alla Pinchuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

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

Oleh Polihenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Azamat Imanbayev (Kazakh-British Technical University, Almaty, Kazakhstan)

Rat Berdibayev (Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan)

14:30 – 14:45

Experimental validation of the method for enhancing the security of critical information systems

Viktoriia Sydorenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

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

Kamila Kluczevska-Chmielarz (University of the National Education Commission, Poland)

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

Oksana Zhyharevych (Lesya Ukrainka Volyn National University, Lutsk, Ukraine)

14:45 – 15:00

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)

15:00 – 15:15

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)

15:15 – 15:30

Edge AI and computer vision for accessible, cyber-secure, and resilient critical railway infrastructure

Kamila Matusik (University of the National Education Commission, Krakow, Poland)

Francesco Flammini (University of Florence, Florence, Italy)

Coffee break

15:30 – 16:00

Track A

Start at 16:00 (CEST)

16:00 – 16:15

Vulnerability analysis, advanced attack scenarios, and defense strategies in smart city IoT infrastructure

Krystian Gałuszka (University of the National Education Commission, Krakow, Poland)

16:15 – 16:30

Legal status of civilian participants in cyber operations during armed conflict

Valeriia Filinovych (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

16:30 – 16:45

Analytical-simulation modeling of a finite queue for asynchronous HTTP request analysis

Alexander Chizhov (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Andrii Fesenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Agnieszka Gajewska (University of the National Education Commission, Krakow, Poland)

Vladyslav Chizhov (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

16:45 – 17:00

Data processing in operation systems of CNS equipment

Oleksandr Solomentsev (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Maksym Zaliskyi (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)

Anton Plugoviy (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Serhii Halenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)



Workshop on Cyber Hygiene

Track B

June 26, 2026

Start at 09:00 (CEST)

Online mode – <https://meet.google.com/jjh-qztc-rsd>

Moderator – Zarina Poberezhna

09:00 – 09:15

Methodology for exploring the interdependencies between data security in social networks and user connection type

Volodymyr Akhramovych (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Vadym Akhramovych (National Academy of Statistics, Accounting and Auditing, Kyiv, Ukraine)

Olesia Yakovenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Yevheniia Halych (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Vladyslav Pavlenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Nataliia Korshun (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

09:15 – 09:30

DDoS attack detection in large-scale networks using wavelet transform and machine learning

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

Denys Bakhtiarov (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

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

Radek Vala (Tomas Bata University in Zlin, Zlin, Czech Republic)

Andrii Leleko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Dmytro Kocherga (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Yaroslav Tertus (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

09:30 – 09:45

Methods for reconstructing microservice architectures: A thematic literature review

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

Andrii Bekh (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Olena Grinenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Andrii Gizun (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

09:45 – 10:00

A cyber hygiene readiness model for network digital twins in telecommunication infrastructure

Levon Petrosian (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Viktor Gnatyuk (National University "Kyiv Aviation Institute", Kyiv, Ukraine; State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

Roman Jasek (Tomas Bata University in Zlin, Zlin, Czech Republic)

10:00 – 10:15

Conceptual approach to the interaction of zero trust and SOC in cybersecurity system of enterprises

Zarina Poberezhna (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

10:15 – 10:30

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

Zarina Poberezhna (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

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

Dmytro Malnov (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

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

10:30 – 10:45

Marker-based crypto-steganographic system for secure data transmission over open channels

Anna Iliencko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Denys Odnoochko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Sergii Ilyenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Oleksii Smirnov (Central Ukrainian National Technical University, Ukraine)

Hennadii Hulak (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

10:45 – 11:00

A multi-agent system-based approach to determining the indicators importance, affecting education process

Oleksandr Sychov (Ivan Kozhedub Kharkiv National Air Force University, Kharkiv, Ukraine)

Iryna Zakharchenko (Ivan Kozhedub Kharkiv National Air Force University, Kharkiv, Ukraine)

Serhii Toliupa (Kyiv National Economic University, Kyiv, Ukraine)

Nataliia Gulak (Cisco Networking Academy, Kyiv, Ukraine)

Elena Dubchak (Cisco Networking Academy, Kyiv, Ukraine)

Andrii Maistrenko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)

11:00 – 11:15

RFID-based access control system with automated employee attendance tracking

Liubov Berkman (State University of Information and Communication Technologies, Kyiv, Ukraine)

Serhii Otrakh (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Kyiv, Ukraine)

Mariia Prokopchuk (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Kyiv, Ukraine)

11:15 – 11:30

Attention-based CNN-LSTM architecture for smartphone IMU-based human activity recognition in intelligent mobile monitoring systems

Mussa Turdalyuly (META University, Almaty, Kazakhstan)

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

Sergiy Gnatyuk (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Ay Zholdassova (International Engineering and Technological University, Almaty, Kazakhstan)

Aigerim Yerimbetova (META University, Almaty, Kazakhstan)

11:30 – 11:45

A hybrid threat detection approach for intelligent information security monitoring and cyber risk assessment

Tolkyn Mirkassimova (Cybersecurity and cryptology department, Farabi University, Almaty, Kazakhstan; School of Digital Technologies, Narxoz University, Almaty, Kazakhstan)

Saltanat Adilzhanova (Almaty Technological University, Almaty, Kazakhstan)



Workshop for Young Scientists in Computer Science and Security

June 25, 2026

Start at 14:00 (CEST)

University of the National Education Commission, Main Bldg., 1st floor

Moderators – Kamila Kluczewska-Chmielarz, Roman Hamretskyi

Hybrid mode – <https://meet.google.com/ndh-ojuj-acc>

14:00 – 14:10

Test-driven development approach and tools enhanced by artificial intelligence
Vladyslav Pechenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

14:10 – 14:20

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; National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Anna Ilyenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

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

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

14:20 – 14:30

Role and significance of ensuring cybersecurity in the national security system of Ukraine:
Legal aspects of cyber security

Ievgenii Kryvolap (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Juliya Iurynets (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Iryna Ustynova (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Leonid Belkin (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

14:30 – 14:40

Methods for ensuring the security of machine learning models based on social network data

Zhazira Abilkhanova (Farabi University, Almaty, Kazakhstan)

Shynar Musiralieva (Farabi University, Almaty, Kazakhstan)

14:40 – 14:50

Development of attack resistance models in the LMS platform based on AI/ML algorithms
Bakhytzhan Akhmetov (Abay Kazakh National Pedagogical University, Almaty, Kazakhstan)

Dinara Basshykyzy (Al-Farabi Kazakh National University, Almaty, Kazakhstan)

14:50 – 15:00

AI-powered threat intelligence and predictive analytics for cyber insurance
Chetan Prakash Ratnawat (Capgemini America Inc, USA)

15:00 – 15:10

Generative AI for cyber insurance: Transforming claims, fraud detection, and risk advisory
Chetan Prakash Ratnawat (Capgemini America Inc, USA)

15:10 – 15:20

AI and ESG compliance in insurance: Automating cybersecurity and sustainability reporting

Chetan Prakash Ratnawat (Capgemini America Inc, USA)

15:20 – 15:30

AI-augmented underwriting for cyber insurance

Chetan Prakash Ratnawat (Capgemini America Inc, USA)

15:30 – 15:40

Vulnerability surface analysis of the model context protocol in agentic middleware: A 60-day CVE dissection with neuromorphic detection frameworks and distributed tool integrity verification

Akshay Bhanushali (University of Washington, Washington, USA)



Workshop on Advanced Technologies in Cyber Resilience Track A

June 26, 2026

Start at 10:00 (CEST)

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

Moderators – Sergiy Gnatyuk, Kamila Kluczevska-Chmielarz

10:00 – 10:15

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)

10:15 – 10:30

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

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

Viktor Gnatyuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine; State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

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

10:30 – 10:45

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

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

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

Viktor Gnatyuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine; State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

10:45 – 11:00

Review of cybersecurity and recommended practices for energy sector

Henryk Noga (University of the National Education Commission, Krakow, Poland)

Viktoriia Lukashenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Pavel Varacha (Tomas Bata University in Zlin, Zlin, Czech Republic)

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

Coffee break

11:00 – 11:30

Track A

Start at 11:30 (CEST)

11:30 – 11:45

Model for detecting anomalous states of information systems based on an integrated security indicator

Olena Nechyporuk (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Svitlana Kashkevych (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Sławomir Bałuszyński (University of the National Education Commission, Krakow, Poland)

Nataliia Apenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Yevhenii Tupota (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Yevhen Artamonov (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

11:45 – 12:00

Media literacy as a driver of cyber hygiene among technical university students in the context of education digitalization

Olekii Holubnychyi (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Anzhelika Kokarieva (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Lesia Khomenko-Semenova (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Mariia Patrul (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Hanna Selesen (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

12:00 – 12:15

Deterministic frame attribution and homography-based geometric normalization of UAV vision datasets for explosive hazard detection using dual-loop architecture

Andriy Dudnik (Kyiv National Taras Shevchenko University; Interregional Academy of Personnel Management; Open University of Human Development “Ukraine”, Kyiv, Ukraine)

Serhii Vyhovskyi (Interregional Academy of Personnel Management, Kyiv, Ukraine)

Oleksiy Batrak (Open University of Human Development “Ukraine”, Kyiv, Ukraine)

Andriy Fesenko (National University “Kyiv Aviation Institute”, Kyiv, Ukraine)

Olexandr Toroshanko (Kyiv National Taras Shevchenko University, Kyiv, Ukraine)

Vira Mykolaychuk (Kyiv National Taras Shevchenko University, Kyiv, Ukraine)

Dmytro Rezyk (Interregional Academy of Personnel Management, Kyiv, Ukraine)

12:15 – 12:30

A method for detecting manipulated images in large-scale photo datasets based on histogram analytics and multi-color space analysis

Andriy Dudnik (Kyiv National Taras Shevchenko University; Interregional Academy of Personnel Management; Open University of Human Development "Ukraine", Kyiv, Ukraine)

Dmytro Zhuravlov (Interregional Academy of Personnel Management, Kyiv, Ukraine)

Andriy Fesenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Vira Mykolaychuk (Kyiv National Taras Shevchenko University, Kyiv, Ukraine)

Vitalijus Cernej (Interregional Academy of Personnel Management, Kyiv, Ukraine)

Valentyn Datsko (Interregional Academy of Personnel Management, Kyiv, Ukraine)

Maksym Ivasiv (Interregional Academy of Personnel Management, Kyiv, Ukraine)

12:30 – 12:45

Models and algorithms for detecting anomalies in LMS platforms using machine learning

Dmytro Proskurin (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Rat Berdibayev (Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan)

Tetiana Hryniuk (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Sergiy Gnatyuk (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

12:45 – 13:00

A method for software-defined quantum network state assessment and detection of anomalous or degraded communication channels

Marek Aleksander (State Higher Vocational School in Nowy Sacz, Poland)

Yurii Kulakov (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Alla Deveciogullari (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Oksana Zhurakovska (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Olena Havrylenko (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Dmytro Sytnyk (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Track B

June 26, 2026

Start at 11:30 (CEST)

University of the National Education Commission, Main Bldg., 1st floor

Hybrid mode – <https://meet.google.com/hju-eryd-igm>

Moderators – *Tetiana Okhrimenko, Fedir Katushonok*

11:30 – 11:45

Approaches for ensuring long-term verification of electronic signatures

Andrew Okhrimenko (Mariupol State University, Kyiv, Ukraine)

Oleksandr Stokipnyi (National University "Kyiv Aviation Institute", Kyiv, Ukraine)
Vladyslav Kovtun (National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine)

11:45 – 12:00

Real-time Bluetooth low energy vulnerability detection using TinyML on edge devices

Elmir Abdullaiev (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)
Volodymyr Sokolov (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)
Pavlo Skladannyi (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)
Yuliia Kostyuk (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)
Vitalii Strelnikov (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

12:00 – 12:15

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

Semen Doroshenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)
Georgiy Konakhovych (National University "Kyiv Aviation Institute", Kyiv, Ukraine)
Oleksii Holubnychyi (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

12:15 – 12:30

Architecture of AI-agent orchestration for automated testing and cyber threat analysis in DevSecOps environments

Emil Faure (Cherkasy State Technological University, Cherkasy, Ukraine; State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)
Inna Rozlomii (Cherkasy State Technological University, Cherkasy, Ukraine)
Anna Kovalova (National Technical University "Dnipro Polytechnic", Dnipro, Ukraine)
Bohdan Savchuk (National Technical University "Igor Sikorsky Kyiv Polytechnic Institute" Kyiv, Ukraine)
Serhii Naumenko (B. Khmelnytsky National University of Cherkasy, Cherkasy, Ukraine)

12:30 – 12:45

A method for protecting UAV command link transmission using pseudo-random frequency hopping based on a parametric oscillator

Semen Zhyla (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)
Kyrylo Muzychenko (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)
Victor Yerokhin (Military Institute of Telecommunications and Informatization named after the Heroes of Kruty, Kyiv, Ukraine)

12:45 – 13:00

A method for assessing the digital maturity of telecommunications systems based on adaptive management

Roman Odarchenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Oleksiy Assaul (Huawei Ukraine, Kyiv, Ukraine)

Piotr Migo (University of the National Education Commission, Krakow, Poland)

Kateryna Ishchuk (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Lunch

13:00 – 14:00

Track B

Start at 14:00 (CEST)

14:00 – 14:15

Single-electron modules for protecting the digital information from energy attacks in space technology

Oleksandr Melnyk (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Oleksandr Nahaichenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

14:15 – 14:30

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

Stanislava Kudrenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Vitalii Alkema (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Valerii Kozlovskiy (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Diana Kozlovska (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

14:30 – 14:45

Development of machine learning models for predicting Zabbix trigger activations based on time-series system metrics

Ihor Martyniuk (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Nazar Zaika (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)

Hanna Martyniuk (Mariupol State University, Kyiv, Ukraine; Mariupol State University, Kyiv, Ukraine)

Tetiana Okhrimenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

14:45 – 15:00

Observable TLS metadata as a basis for exfiltration-relevant egress violation detection in Kubernetes workloads

Ihor Skostariiev (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Olena Grinenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Sergii Grinenko (National Transport University, Kyiv, Ukraine)

15:00 – 15:15

Knowledge distillation and training variance: An empirical study on run-to-run repeatability

Oleksandr Sukhovi (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

Olena Grinenko (National University "Kyiv Aviation Institute", Kyiv, Ukraine)

15:15 – 15:30

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")

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



Workshop on Conflict Management in Global Information Networks

June 26, 2026

Start at 14:00 (CEST)

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

Moderators – Valeriia Filinovych, Maksym Zaliskyi

Hybrid mode – <https://meet.google.com/jjh-qztc-rsd>

14:00 – 14:15

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)

14:15 – 14:30

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)

14:30 – 14:45

Modeling the future splinternet using AI driven fragmentation scenarios

Maksim Iavich (Caucasus University, Tbilisi, Georgia)

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

14:45 – 15:00

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)

15:00 – 15:15

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

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

Oleksii Prikunov (Vasyl' Stus Donetsk National University, Vinnytsia, Ukraine)

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

15:15 – 15:30

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

Yuliia Kostyuk (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 Bebesko (Borys Grinchenko Kyiv Metropolitan University, Kyiv, Ukraine)

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

Coffee break

15:30 – 16:00

16:00 – 16:15

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)

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

16:15 – 16:30

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)

16:30 – 16:45

Application of artificial intelligence in academic and administrative processes in higher education institutions

Gulistan Yelubay (Abai Kazakh National Pedagogical University, Almaty, Kazakhstan)

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

Selami Eryilmaz (Gazi University, Ankara, Turkey)

Roundtable

June 27, 2026

Start at 10:00 (CEST)

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

Moderator – Sergiy Gnatyuk

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

Closing ceremony

June 27, 2026

Start at 12:00 (CEST)

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

Moderator – Sergiy Gnatyuk

Excursions

June 25, 2026

Participants will visit the modern laboratories and research facilities of the UNIVERSITY OF THE NATIONAL EDUCATION COMMISSION. The excursion will provide an overview of the university's educational and scientific infrastructure, including specialized laboratories, innovation spaces, and technology-enhanced learning environments. Attendees will have the opportunity to learn about ongoing research activities, collaborative projects, and the university's role in fostering academic excellence and innovation.

June 26, 2026

Participants will visit the historic Wieliczka Salt Mine, one of Poland's most remarkable cultural and industrial heritage sites and a UNESCO World Heritage Site. The guided tour will lead through underground chambers, salt-carved sculptures, chapels, and corridors, showcasing centuries of mining traditions and engineering achievements. The excursion offers a unique opportunity to explore the intersection of history, culture, and technology in an extraordinary subterranean environment.

June 27, 2026

Participants will explore the historic center of Kraków, one of the most beautiful and culturally significant cities in Central Europe. The excursion includes a guided walk through the Old Town, featuring its medieval architecture, market square, and renowned landmarks, followed by a visit to the Wawel Royal Castle, a symbol of Poland's national heritage. Attendees will gain insight into the rich history, culture, and architectural legacy of Kraków and the former seat of Polish kings