

UNIVERSITY OF THE NATIONAL EDUCATION COMMISSION, POLAND

TOMAS BATA UNIVERSITY IN ZLIN, CZECH REPUBLIC

NATIONAL UNIVERSITY "KYIV AVIATION INSTITUTE", UKRAINE



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

**PROGRAM**

*Supported by*

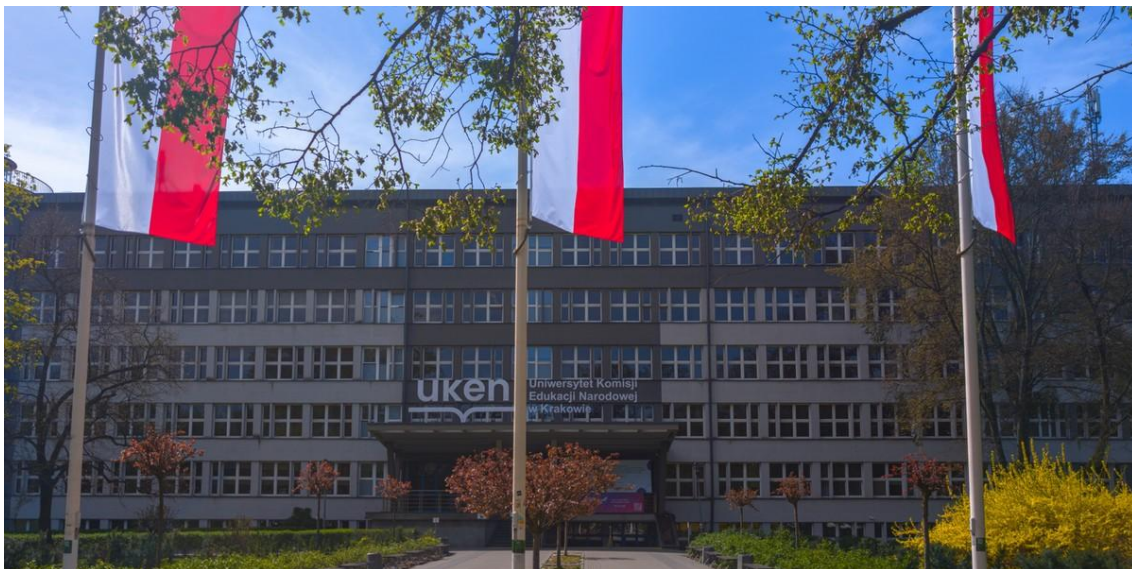


**June 25-26, 2026**

**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

## Editors

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

**Maksim Iavich**, Caucasus University, Georgia

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

**Marek Aleksander**, State Higher Vocational School in Nowy Sacz, Poland

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**Tetiana Okhrimenko**, Scientific Cyber Security Association of Ukraine, Ukraine

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**Jamil Al-Azzeh**, Al Balqa Applied University, Jordan

**Vishnu Narayan Mishra**, Indira Gandhi National Tribal University, India

**Zhengbing Hu**, University of Bonn, Central China Normal University, China



# Workshop on Cyber Hygiene

## Track A

June 25, 2026

Start at 14:00 (CEST)

University of the National Education Commission, Main Bldg., 2<sup>nd</sup> floor

*Moderators – Roman Odarchenko, Tetiana Konrad*

14:00 – 14:15

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)*

14:15 – 14:30

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, Kyiv, Ukraine)*

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

*Andriy Fesenko (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, 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)*

14:30 – 14:45

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

*Alexander Chizhov (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

*Andrii Fesenko (State Scientific and Research Institute of Cybersecurity Technologies and Information Protection, Kyiv, Ukraine)*

*Agnieszka Gajewska (University of the National Education Commission, Krakow, Poland)*  
*Vladyslav Chizhov (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

14:45 – 15:00

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)*

15:00 – 15:15

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)*

15:15 – 15:30

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

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

### **Coffee break**

15:30 – 16:00

## **Track A**

Start at 16:00 (CEST)

16:00 – 16:15

Quantum adaptive lattice signatures for next generation secure communications

*Maksim Iavich (Caucasus University, Tbilisi, Georgia)*

16:15 – 16:30

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

*Denys Odnoochko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

*Anna Iliencko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

*Sergii Ilyenko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

*Oleksii Smirnov (Central Ukrainian National Technical University, Ukraine)*

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

16:30 – 16:45

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, Kyiv, Ukraine)*

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

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

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

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

*Dmytro Reznik (Interregional Academy of Personnel Management, Kyiv, Ukraine)*

*Pavlo Tkachuk (Interregional Academy of Personnel Management, Kyiv, Ukraine)*

16:45 – 17:00

Methods for reconstructing microservice architectures: A thematic literature review

*Olena Grinenko (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)*

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

*Artem Morhun (LLC Grammarly Ukraine, Kyiv, Ukraine)*

*Andrii Bekh (Technology Oriented S.R.L., Kyiv, Ukraine)*

17:00 – 17:15

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)*

17:15 – 17:30

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)*

# Workshop on Cyber Hygiene

## Track B

June 26, 2026

Start at 09:00 (CEST)

University of the National Education Commission, Main Bldg., 2<sup>nd</sup> floor

*Moderator – Zarina Poberezhna*

09:00 – 09:15

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 (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

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

*Tetiana Okhrimenko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

09:15 – 09:30

Review of cybersecurity and recommended practices for energy sector

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

*Viktoriia Lukashenko (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

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

*Oleksandr Dobrynychuk (Scientific Cyber Security Association of Ukraine, Kyiv, Ukraine)*

09:30 – 09:45

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)*

09:45 – 10:00

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)*

10:00 – 10:15

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)*

10:15 – 10:30

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)*

*Valentyna Danylchenko (State University of Information and Communication Technologies, Kyiv, Ukraine)*

10:30 – 10:45

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

*Levon Petrosian (Individual Entrepreneur Petrosian Levon H., Kyiv, Ukraine)*

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

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

10:45 – 11:00

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)*