

Programme of the 5th International Workshop on Intelligent Information Technologies & Systems of Information Security (IntelITSIS-2024)

Time regarding the Kylv		
Countries which represent authors	Time in countries regarding the time of Ukraine	
United States of America	- 6	
United Kingdom	- 2	
Poland	- 1	
Czech Republic	- 1	
Slovakia	- 1	
Austria	- 1	
Algeria	- 1	
Serbia	- 1	
Egypt	The same	
Lithuania	The same	
Estonia	The same	

Time regarding the Kyiv

Khmelnytskyi, Ukraine, March 28, 2024

IMPORTANT!!! All Ukrainian participants of Workshop should be connected to all sessions from shelters in order to ensure uninterrupted work during air alarms! We will not stop the Workshop's sessions in case of an air alarm!

All workshop participants should have a backup connection option (charged mobile phone with a connected mobile internet) to ensure uninterrupted operation in case of emergencies – power outages, etc.

Timetable of the Workshop

Time (Kyiv)	March 28 th 2024
9.30	Welcome & Plenary Session
9.45	Section Session 1
	Intelligent Information Technologies
11.45	Coffee Break
12.00	Section Session 1
	Intelligent Information Technologies
13.45	Coffee Break
14.00	Section Session 2
	Systems of Information Security
17.15	Coffee Break
17.30	Awards and Close Ceremony

Presentation timing:

Session presentations – 10 minutes + 5 minutes Q&A (15 minutes for 1 speaker!).

Testing of Connection:

March 28th, 2024, 09.15-09.30 (9.15 AM – 09.30 AM), Kyiv time

Zoom links:

Plenary	https://us02web.zoom.us/j/89579767497?pwd=bWFFYThQbm1VSIM3SVdnRDNOampBZ
session	<u>z09</u>
	Meeting ID: 895 7976 7497
	Password: 123456
Session 1	https://us02web.zoom.us/j/89579767497?pwd=bWFFYThQbm1VSIM3SVdnRDNOampBZ
Intelligent	<u>z09</u>
Information	Meeting ID: 895 7976 7497
Technologie	Password: 123456
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Session 2	https://us02web.zoom.us/j/89579767497?pwd=bWFFYThQbm1VSIM3SVdnRDNOampBZ
Systems of	<u>z09</u>
, Information	
Security	Password: 123456

Plenary Sessions' Schedule

Plenary sessions	Invited presentations
Welcome & Plenary	09.30-09.40
Session	Greetings from the IntelITSIS Organizers:
	Tetiana Hovorushchenko, Khmelnytskyi National University,
March 28 th 2024	Ukraine (General Chair of the Workshop)
09.30-09.45	Oleg Syniuk , Vice-Rector of Khmelnytskyi National University, Ukraine
Moderators:	Sergii Lysenko , Khmelnytskyi National University, Ukraine
Tetiana	(International Program Committee Chair)
Hovorushchenko,	Yelyzaveta Hnatchuk , Khmelnytskyi National University,
Sergii Lysenko	Ukraine (Organizing Committee Chair)
	09.40-09.45
	Trends of the IntelITSIS-2024
	Tetiana Hovorushchenko, Khmelnytskyi National University,
	Ukraine
Awards and Close	17.30-17.45
Ceremony	Awards and Close Ceremony
March 28 th 2024	
17.30-17.45	
Moderators:	
Tetiana	
Hovorushchenko,	
Sergii Lysenko	

Section Sessions' Schedule

Section Sessions	Presentations
Section Session 1	Eugene Fedorov, Olga Nechyporenko, Oleg Grygor and Maryna
Intelligent Information	Leshchenko
Technologies	Creation of Supply Chain Management Methods Based on Multi-Agent
reennoiogies	Systems and Metaheuristics
March 28 th 2024	systems and metaneoustics
09.45-11.45	Sergii Babichev, Maksym Korobchynskyi, Myhailo Rudenko and Hanna
05.45-11.45	Batenko
Moderators:	Applying Biclustering Technique and Gene Ontology Analysis for Gene
Tetiana	Expression Data Processing
Hovorushchenko,	Expression Data Processing
Yelyzaveta Hnatchuk,	Vira Liubchenko
Olga Pavlova	Machine Learning Techniques for Predicting Software Code Properties
Olga Faviova	Using Design Metrics
	Using Design Metrics
	Oleksandr Romanyuk and Yevhen Zavalniuk
	Deep Learning-Based Determination of Optimal Triangles Number of
	Graphic Object's Polygonal Model
	Graphic Object's Polygonal Model
	Pohdan Kovalskyi Myroslava Duhnovysh, Totyana Holuhnyk, Lyudmyla
	Bohdan Kovalskyi, Myroslava Dubnevych, Tetyana Holubnyk, Lyudmyla
	Mayik and Zoryana Selmenska The information technology for the formation of high quality visual
	The information technology for the formation of high-quality visual
	content of newspaper publications
	Tatiana Havarushchanka Vuriji Vajshur Dmytra Madzatvji Artam
	Tetiana Hovorushchenko, Yurii Voichur, Dmytro Medzatyi, Artem
	Boyarchuk and Alina Hnatchuk Mothod for Datermining the Security Level of Software
	Method for Determining the Security Level of Software
	Oleksandr Tymchenko, Bohdana Havrysh, Orest Khamula, Bohdan
	Kovalskyi and Igor Bagniuk
	Informationally-technological provision of environmental nature reserves
	monitoring
	nontoring
	Tetiana Tereshchenko, Olena Khytra, Yelyzaveta Hnatchuk, Alina
	Hnatchuk and Houda El Bouhissi
	Decision support system for assessing the economic development
	potential of a territorial community
Section Session 1	Vitaliy Pavlyshyn, Eduard Manziuk, Olexander Barmak, Iurii Krak, Robertas
Intelligent Information	Damasevicius
Technologies	Modeling Environment Intelligent Transport System for Eco-Friendly
i comologica	Urban Mobility
March 28 th 2024	si san mosinty
12.00-13.45	Olexander Ryzhanskyi, Eduard Manziuk, Olexander Barmak, Iurii Krak,
12:00-13:43	Nebojsa Bacanin
Moderators:	An Approach to Optimizing CO2 Emissions in Traffic Control via
Tetiana Hovorushchenko,	
Yelyzaveta Hnatchuk,	nengereennent Leanning
Olga Pavlova	Liudmyla Gryzun, Olexiy Lytovchenko
Olga Paviova	Predicting COVID-19 incidences based on machine learning
	reacting covid-15 incluences based on machine rearning

	Volodymyr Kysil, Peter T. Popov, Olga Drachuk, Valentyna Hnenna and Inna Martyniuk
	Martyniuk Concept of Information Technology for Diagnosis and Prognosis of Glaucoma Based on Machine Learning Methods
	Serhiy Balovsyak, Olga Kroitor, Khrystyna Odaiska, Abdel-Badeeh M. Salem and Serhii Stets
	Car Image Recognition using Convolutional Neural Network with EfficientNet Architecture
	Olga Pavlova, Ivan Rudyk and Houda EL Bouhissi Post-processing of video surveillance systems alarm signals using the YOLOv8 neural network
	Tetiana Hovorushchenko, Oleg Voichur, Olha Hovorushchenko, Artem Boyarchuk and Iryna Zasornova
	The Concept of Information Technology for Ensuring Accessibility to Art Objects for the Visually Impaired Persons
Section Session 2	Vasyl Yatskiv, Elena Nyemkova, Serhii Kulyna, Halyna Kulyna and Stepan Ivasiev
Systems of Information Security	Data Encryption Method Based on the Redundant Residue Number System
March 28 th 2024	Viacheslav Kovtun and Oksana Kovtun
14.00-17.15	Service-Oriented Model for Handling mMTC Subscribers' Traffic in a 5G Cluster
Moderators: Oleh Savenko, Sergii Lysenko , Andrii Nicheporuk	Liubomyr Sikora, Nataliia Lysa , Olga Fedevych and Yurii Lysyi Decision-making logic in operational emergency situations for hierarchical systems management
	Mykola Stetsyuk, Viktor Cheshun, Yuriy Stetsyuk, Oleksandr Kozelskiy and Abdel-Badeeh M. Salem
	A model of a DDoS attack scenario on elements of specialized information technology and methods of combating cybercriminals
	Dmytro Denysiuk, Tomas Sochor, Mariia Kapustian, Antonina Kashtalian and Oleh Savenko
	Methods for Detecting Software Implants in Corporate Networks
	Artem Kachur, Sergii Lysenko, Oleh Bodnaruk and Piotr Gaj Methods of improving security and resilience of VR systems' architecture
	Volodymyr Sabat, Lyubomyr Sikora, Bohdan Durniak, Vitalii Matsiuk and Pavlo Hibey
	Methods for assessing the risk of an emergency in the security system for the information complex of printing enterprises
	Sergii Lysenko, Oleksandr Bokhonko, Volodymyr Vorobiyov and Piotr Gaj Method for identifying cyberattacks based on the use of social engineering over the phone

Volodymyr Sabat, Bohdan Durniak, Myroslava Kulynych, Olena Havrylyshyn and Pavlo Hibey Using semantic analysis of document text in building risk models in the threats system
Yevheniy Sierhieiev, Vadym Paiuk, Anatoliy Sachenko, Andrii Nicheporuk, , Andrzej Kwiecien A graph-based vulnerability detection method
Olena Veprytska, Vyacheslav Kharchenko Analysis of AI powered attacks and protection of UAV assets: quality model-based assessing cybersecurity of mobile system for demining
Serhii Danchuk, Olena Geidarova, Andrii Nicheporuk, Andrzej Kwiecien Method of detecting cyberattacks on communication channels based on spectral clustering and machine learning methods
Pavlo Rehida, Oleg Savenko, Anatoliy Sachenko, Andriy Drozd, Petro Vizhevski A trust model that ensures the correctness of computing in grid computing system