Schedule

Section I. Cybersecurity and Cryptography

1.	Computing of Odd Degree Isogenies on Supersingular Twisted Edwards Curves Anatoly Bessalov, Volodymyr Sokolov, Pavlo Skladannyi, Oleksii Zhyltsov	1–11
2.	Construction Features and Analysis of Warfare Information Model with Impulse Perturbations under Poisson Approxima- tion Conditions (short paper) Ihor Samoilenko, Anatolii Nikitin, Ganna Verowkina, Tetiana Nikitina	12–17
3.	New Cryptosystems of Noncommutative Cryptography based on Eulerian Semigroups of Multivariate Transformations (short paper) Vasyl Ustimenko, Oleksandr Pustovit	18–26
4.	Prospective Areas of Research in the Development of Post- Quantum Cryptography Vasyl Sheketa, Svitlana Chupakhina, Mariya Leshchenko, Larysa Tymchuk, Kostiantyn Chub	27–36
5.	Organizational and Technical Model of National Cybersecurity and Cyber Protection Roman Boyarchuk, Mykola Khudyntsev, Oleksiy Lebid, Oleksandr Trofymchuk	37–46
6.	Game-Theoretic View on Decentralized Proof Generation in zk- SNARK-based Sidechains Yuri Bespalov, Alberto Garoffolo, Lyudmila Kovalchuk, Hanna Nelasa, Roman Oliynykov	47–59
7.	Security Analysis Models for Multimedia Information Resources in Social Networks (short paper) Stanislav Milevskyi, Volodymyr Aleksiyev, Olha Korol, Oleksandr Milov, Serhii Yevseiev	60–67
8.	Studies on Cloud-based Cyber Incidents Detection and Identification in Critical Infrastructure Sergiy Gnatyuk, Rat Berdibayev, Zhadyra Avkurova, Oleksii Verkhovets, Madina Bauyrzhan	68–80

9.	Network Security Approach based on Traffic Engineering Fast ReRoute with support of Traffic Policing Oleksandr Lemeshko, Oleksandra Yeremenko, Maryna Yevdokymenko, Anastasiia Shapovalova, Valentyn Lemeshko	81–90
10.	Cybercrimes Investigation via Honeypots in Cloud Environments (short paper) Vitalii Susukailo, Sviatoslav Vasylyshyn, Ivan Opirskyy, Volodymyr Buriachok, Olena Riabchun	91–96
11.	Method of Diagnostic of Non-Positional Code Structures in the System of Residue Classes Basing on the Usage of an Alternative Number Set Informativeness Victor Krasnobayev, Alexander Kuznetsov, Anna Kononchenko, Tetiana Kuznetsova	97–106
12.	Prerequisites for Developing a Methodology for Estimating and Increasing Cryptographic Strength based on Many-Valued Logic Functions Artem Sokolov, Nadiia Kazakova, Lydia Kuzmenko, Mariia Mahomedova	107–116
13.	Improvement of Steganographic Methods based on the Analysis of Image Color Models (short paper) Serhii Buchyk, Sergey Tolyupa, Yaroslav Symonychenko, Anna Symonychenko, Artem Platonenko	117–124
14.	Application of Arithmetic Coding Methods in Cryptographic Information Protection Systems Dmytro Havrylov, Olexandr Shaigas, Oksana Stetsenko, Yurii Babenko, Valerii Yroshenko	125–136
15.	Formation of Requirements for the Electronic Record-Book in Guaranteed Information Systems of Distance Learning (short paper) Hennadii Hulak, Larysa Kriuchkova, Pavlo Skladannyi, Ivan Opirskyy	137–142
16.	Methods for Decoding Informational Codes of Cryptocompression Codograms to Improve Information Security Vladimir Barannik, Serhii Sidchenko, Natalia Barannik, Dmitriy Barannik, Sergii Shulgin	143–152

Section II. Wireless Network Privacy

17.	Detection of Attacks in Wireless Networks of IoT Olexander Belej, Nataliia Bokla, Liubov Halkiv	153–163
18.	Secure e-Health System for the Integrated Management of Personal Health Data Collected by IoT Devices Razvan Bocu, Maksim Iavich, Sergiy Gnatyuk, Dinara Ospanova, Yuliia Sotnichenko	164–174
19.	Biometric Templates Noise Immunity during Transmission by Mobile Networks (short paper) Anna Shcherbak, Andrii Astrakhantsev, Oleg Shcherbak, Galyna Liashenko	175–181
20.	Aerial Photographs for Ensuring Cyber Security of Critical Infrastructure Objects	182–191

Volodymyr Barannik, Oleksandr Slobodyanyuk,

Andrii Krasnorutsky, Anna Korchenko, Serhii Pchelnikov

Section III. Machine Learning and Telecommunications in Cybersecurity

21.	Designing Networked High-Load Distributed Computing Web Systems for Intensive Processing of Information Data Flows Mykola Pasieka, Vasyl Sheketa, Iryna Halushchak, Svitlana Verbeshchuk, Mykhailo Yasinskyi	192–205
22.	Design of a Residual Adder in Computer Systems (short paper) Victor Krasnobayev, Alexander Kuznetsov, Victoria Popenko, Tetiana Kuznetsova	206–212
23.	Use of Neural Networks for Predicting Cyberattacks Bohdan Bebeshko, Karyna Khorolska, Nataliia Kotenko, Oleksander Kharchenko, Tetyana Zhyrova	213–223
24.	Method of Determining the Angular Orientation of Small Satel- lites in Orbit Volodymyr Saiko, Serhii Toliupa, Volodymyr Nakonechnyi, Maxym Kotov, Volodymyr Astapenya	224–233
25.	Identity Documents Recognition and Detection using Semantic Segmentation with Convolutional Neural Network (short paper) Mykola Kozlenko, Volodymyr Sendetskyi, Oleksiy Simkiv, Nazar Savchenko, Andy Bosyi	234–242
26.	Method of Detecting Special Points on Biometric Images based on New Filtering Methods (short paper) Mariia Nazarkevych, Volodymyr Hrytsyk, Yaroslav Voznyi, Andrii Marchuk, Olha Vozna	243–251
27.	Analysis of Automatic Speech Recognition Methods (short paper) Olena Iosifova, Ievgen Iosifov, Volodymyr Sokolov, Oleh Romanovskyi, Igor Sukaylo	252–257
28.	Harmful Effects of Fake Social Media Accounts and Learning Platforms Nadiia Pasieka, Myroslava Kulynych, Svitlana Chupakhina, Yulia Romanyshyn, Mykola Pasieka	258–271

Recurrent Estimation of the Information State Vector and the	272–276
Correlation of Measuring Impact Matrix using a Multi-Agent	
Model (short paper)	
Zoreslava Brzhevska, Halyna Haidur, Nadiia Dovzhenko,	
Andrii Anosov, Maksym Vorokhob	
	Correlation of Measuring Impact Matrix using a Multi-Agent Model (short paper) Zoreslava Brzhevska, Halyna Haidur, Nadiia Dovzhenko,

- 30. Methods of the Objects Identification and Recognition Research 277–282 in the Networks with the IoT Concept Support (short paper)

 Olha Shevchenko, Andrii Bondarchuk, Olha Polonevych,

 Bohdan Zhurakovskyi, Nataliia Korshun
- 31. Traffic Monitoring and Abnormality Detection Methods for Decentralized Distributed Networks (short paper)

 Dmytro Ageyev, Tamara Radivilova

Section IV. Risk Management and Economic Security

32.	Model of Operation System's Incidents Forecasting (short paper) Valeri Lakhno, Andii Sahun, Vladyslav Khaidurov, Dmitro Kasatkin, Serhii Liubytskyi	289–294
33.	Management Risks of Dependence on Key Employees: Identification of Personnel Yurii Khlaponin, Olha Izmailova, Nameer Hashim Qasim, Hanna Krasovska, Kateryna Krasovska	295–308
34.	Information Security Risk Analysis SWOT (short paper) Halyna Shevchenko, Svitlana Shevchenko, Yuliia Zhdanova, Svitlana Spasiteleva, Olena Negodenko	309–317
35.	Approach of the Attack Analysis to Reduce Omissions in the Risk Management Serhii Zybin, Volodymyr Khoroshko, Yuliia Khokhlachova, Valerii Kozachok	318–328

36. Analysis of Features and Prospects of Application of Dynamic 329–335 Iterative Assessment of Information Security Risks (short paper)

Denis Berestov, Oleg Kurchenko, Yuri Shcheblanin, Nataliia Korshun, Tetiana Opryshko

Materials are published in the author's edition.