

PROGRAM

of “The International Conference on Security, Fault Tolerance, Intelligence” (ICSFTI2025)

May 14, 2025 (Igor Sikorsky Kyiv Polytechnic Institute) ONLINE		
13:50 – 14:00	Registration	ONLINE
14:00 – 14:10	Open ceremony. Prof. Sergii Stirenko. Prof. Yaroslav Kornaha. Prof. Mykhailo Novotarskyi.	ONLINE
14:10 – 14:30	Plenary Section ICSFTI2025.	ONLINE
14:30 – 16:00	Parallel Section: AI. Machine learning, Big Data. GN. Global Networks, Grid and Cloud.	ONLINE
14:30 – 16:00	Parallel Section: RT. IoT, Real Time Systems. SEC. Security, Fault Tolerance.	ONLINE
	Closing ceremony June 30, 2025.	ONLINE

Open ceremony. Plenary Section.

<https://bbb.comsys.kpi.ua/rooms/art-blk-fia-nmy/join>

Prof. Sergii Stirenko.

Prof. Yaroslav Kornaha.

Prof. Mykhailo Novotarskyi.

1. Viktor Poriev. SOME ASPECTS OF TOPOLOGICAL MODELING AND ANALYSIS OF FAILURE TOLERANCE OF NETWORK STRUCTURES

Parallel Section AI. Machine learning, Big Data.

Parallel Section GN. Global Networks, Grid and Cloud.

Section organization committee: Mykhailo Novotarskyi, Yurii Gordienko, Yuriy Kulakov, Victor Porev, Artem Volokyta, Olga Rusanova.

PHD students: Oleksandr Honcharenko, Mykyta Melenchukov, Oleksandr Morozov-Leonov, Artem Dremov.

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1. Denis Panaskin. NASCA METHOD: A COMBINED CNN-CVAE METHOD FOR MULTI-CLASS RESPIRATORY DISEASE DETECTION FROM AUSCULTATION DATA
2. Pysarchuk Oleksii, Tuhanskykh Oleksandr. METHODOLOGY FOR STATISTICAL LEARNING OF NONLINEAR MODEL PARAMETERS WITH THE INTEGRAL FORM OF OLS IN THE SCHEME OF DIFFERENTIAL-NONTAYLOR TRANSFORMATIONS
3. Yehor Hrybenko, Vladyslav Taran. IMPROVING REINFORCEMENT LEARNING FOR QUADRUPED ROBOT LOCOMOTION
4. Mykola Onyshchuk, Yurii Kulakov. CONSTRUCTION OF A SET OF DISJOINT PATHS CONSIDERING QUALITY OF SERVICE PARAMETERS
5. Gargaiev Kyrilo, Yurii Kulakov. METHOD OF AUTOMATING WEB APPLICATION DEVELOPMENT
6. Valentyn Zhelepa. SENTIMENT ANALYSIS OF NON-ENGLISH TEXT BASED ON NLP TECHNOLOGIES
7. Kostiantyn Hazin, Artem Volokyta. MODIFICATION OF END-TO-END VIDEO GAME TESTING METHODS

Parallel Section RT. IoT, Real Time Systems.
Parallel Section SEC. Security, Fault Tolerance.

Section organization committee Iryna Klymenko, Oleksiy Pysarchuk, Anatoly Sergienko, Oleksandr Markovskyy, Liudmyla Mishchenko.

PHD students: Volodymyr Rusinov, Oleksii Cherevatenko, Dmytro Korenko, Andrii Kobyliuk.

<https://bbb.comsys.kpi.ua/rooms/art-dho-rac-a0s/join>

1. Oleksandr Markovskyy, Bohdana Ostrovska. METHOD FOR ACCELERATING THE COMPUTATIONAL IMPLEMENTATION OF MULTIPLICATIVE OPERATIONS IN MODULAR ARITHMETIC
2. A. I. Vinokurov, A. M. Sergiyenko, P. A. Serhiienko. PROGRAM PIPELINING OF GPU USING C-SLOW RETIMING
3. Pysarchuk Oleksii, Rudenko Stanislav. MULTI-CRITERIA SCORING METHOD FOR TRAVEL ROUTES BASED ON GRAPH MODELS
4. Illya Verbovskyy, Valerii Zhabin. METHOD FOR INCREASING THE EFFICIENCY OF SOLVING TRIDIAGONAL SLE IN A REDUNDANT NUMBER SYSTEM ON FPGA
5. Babenko Viktoriia, Iryna Klymenko. METHOD OF USING CLOUD SERVICES IN COMBINATION WITH CI/CD FOR THE SMART CITY SYSTEM
6. Mykhailo Boiko, Liudmyla Mishchenko. SIMPLIFYING THE DEPLOYMENT OF IOT SYSTEMS THROUGH MODULAR DESIGN
7. Dmytro Rekechynskyy, Artem Volokyta. METHODOLOGY OF USER INTERFACE DEVELOPMENT BASED ON NFML MARKUP LANGUAGE
8. Pavlo Skvortsov, Oleksander Markovskyy. METHOD FOR HOMOMORPHIC ENCRYPTION OF IMAGES DURING REMOTE CLOUD PROCESSING

Closing ceremony.

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