

The 6th International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2023)

17-19 March 2023

Warsaw, Poland

ICCSEEA2023 Conference Program

ICCSEEA2023

Conference Sponsors

International Center of Informatics and Computer Science (ICICS)

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National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

<https://kpi.ua/en>

ICCSEEA2023 Conference Schedule - Online

Sunday, 16 April 2023
Warsaw time at 8:00 AM

Time Zone Table

Location	Local Time	Time Zone	UTC Offset
Warsaw (Poland)	Sunday, 16 April 2023, 08:00:00	CEST	UTC+2 hours
Beijing (China)	Sunday, 16 April 2023, 14:00:00	CST	UTC+8 hours
New Delhi (India)	Sunday, 16 April 2023, 11:30:00	IST	UTC+5:30 hours
Kyiv (Ukraine)	Sunday, 16 April 2023, 09:00:00	EEST	UTC+3 hours
Washington DC (USA)	Sunday, 16 April 2023, 02:00:00	EDT	UTC-4 hours
Corresponding UTC (GMT)	Sunday, 16 April 2023, 06:00:00		

<https://www.timeanddate.com/worldclock/meeting.html>

Keynote Speeches for ICCSEEA2023

Join a Zoom meeting

<https://us02web.zoom.us/j/87100895435?pwd=cFUwY3RKdldVemRyd081aGw0MjZiUT09>

Meeting ID: 871 0089 5435

Passcode: 917922

Time	Keynote Speeches	Speakers
8:00-8:20	Open Ceremony	Prof. Matthew He Prof. Q.Y. Zhang Prof. Z.B. Hu
8:20-8:40	<u>Research on the Influencing Factors of Students' General Competency Improvement in Application-Oriented Universities</u>	Dr. Jing Zuo
8:40-9:00	<u>Methods of Topological Organization Synthesis based on Tree and Dragonfly Combinations</u>	Prof. Artem Volokyta
9:00-9:20	<u>Machine learning based function for 5G working with CPU threads</u>	Prof. Maksim Iavich
9:20-9:40	<u>The Extended Fredkin Gates with Reconfiguration in NCT Basis</u>	Oleksii Dovhaniuk

Sunday, 16 April 2023
Warsaw time at 10:00 AM

Join Zoom Meeting

<https://us06web.zoom.us/j/83697668795?pwd=THY4LzVsR3ZWaXRjZTgyUCszdU5XZz09>

Meeting ID: 836 9766 8795

Passcode: 569822

Section 1. Computer Science for Manage of Natural and Engineering Processes

Section Chair

Prof. Oleksandra Yeremenko

Section Co-Chairs

Prof. Yuriy Ushenko

Prof. Q.Y. Zhang

ID	Time	Paper title	Author Email
2083	10:00-10:15	Construction and Operation Analysis of Logistics Sorting Simulation Experimental Platform	fortanguexia@163.com
2084	10:15-10:30	Analysis on Ventilation Design of the Negative Pressure Isolation Rooms in Wuhan Leishenshan Hospital	458798669@qq.com
2101	10:30-10:45	Multi Object Infrared Image Segmentation Based on Multi-Level Feature Fusion	759137827@qq.com
2113	10:45-11:00	Spear-man Correlation Data Analysis of Scale of Intelligent Logistics and Investment and Financing of Logistics Technology	342603058@qq.com
2139	11:00-11:15	Neural Network Model For Laboratory Stand Control System Controller With Parallel Mechanisms	shymkovych.volodymyr@gmail.com
2186	11:15-11:30	Web Application State Management Performance Optimization Methods	oleshchenkoliubov@gmail.com
2188	11:30-11:45	Design and Implementation of Signal Acquisition System Based on FPGA and Gigabit Ethernet	970423706@qq.com
2190	11:45-12:00	Design of a Dynamic Probability-based Automatic Test Paper Generation System	23255294@qq.com
2194	12:00-12:15	Applying Data Mining Techniques in People Analytics for Balancing Employees' Interests	zoriana.p.dvulit@lpnu.ua
2195	12:15-12:30	Object-Oriented Model of Fuzzy Knowledge Representation in Computer Training Systems	nataliia.shybytska@npp.nau.edu.ua
2308	12:30-12:45	A feature selection and regression refinement network for power facility detection in remote sensing images	js_xiao@qq.com

2200	12:45-13:00	Enhancing Readability in Custom Templates for Displaying Semantically Marked Information	sashabulgakova2@gmail.com
2214	13:00-13:15	Metaheuristic Optimization Algorithms Usage in Recommendation System with User Psychological Portrait Generation	oleshchenkoliubov@gmail.com
2215	13:15-13:30	Interest Point Detection at Digital Image Based on Averaging of Function	i.a.yurchuk@gmail.com
2216	13:30-13:45	Analyzing Ukrainian Media Texts by Means of Support Vector Machines: Aspects of Language and Copyright	maxim.lupey@gmail.com
2217	13:45-14:00	Data Mesh as Distributed Data Platform for large enterprise companies	ntu.ony@gmail.com
	14:00-15:00	Break Time	
2218	15:00-15:15	Using the Strategy of Information Resistance to Improve Content in Virtual Communities Using the Example of the Facebook Social Network	ruslana.s.pazderska@lpnu.ua
2220	15:15-15:30	A Modified Method and an Architecture of a Software for a Multivariate Polynomial Regression Building Based on the Results of a Conditional Active Experiment	pavlov.fiot@gmail.com
2232	15:30-15:45	Research and Development of Bilinear QoS Routing Model over Disjoint Paths with Bandwidth Guarantees in SDN	oleksandra.yeremenko.ua@ieee.org
2235	15:45-16:00	Improved GL-model of behavior of complex multiprocessor systems in failure flow	romankev@scs.kpi.ua
2236	16:00-16:15	A Method for Evaluating the Efficiency of the Semantic Kernel in the Internet Promotion Channel	sergey.v.orekhov@gmail.com
2262	16:15-16:30	Automated dating of Galaktion Tabidze's handwritten texts	miavich@cu.edu.ge
2265	16:30-16:45	Artificial Neural Network and Random Forest Machine Learning Algorithm based TCSC Controllers for mitigating Power Problems	niharika.svits@gmail.com
2268	16:45-17:00	Child Access Control Based On Age and Personality Traits	allahverdiyevabasira@gmail.com
2274	17:00-17:15	Identifying the Application of Process Mining Technique to Visualise and Manage in the Healthcare Systems	simaajami@yahoo.com
2297	17:15-17:30	A Study of Implementing a Blockchain-based Forensic Model Integration (BBFMI) for IoT Devices in Digital Forensics	hkhajuria@amity.edu
2300	17:30-17:45	The method of determining the adequacy of virtual community's themes	anna.i.synko@lpnu.ua
2197	17:45-18:00	Implementation of Optical Logic Gates Based on Color Filters	vl.timchenko58@gmail.com

2311	18:00-18:15	Development of Arithmetic/Logical Computational Procedures: Computer Aided Digital Filter Design with Bilinear Transformation	ar.zubair@ui.edu.ng
2321	18:15-18:30	Advanced Method for Compressing Digital Images as a Part of Video Stream to Pre-Processing of UAV Data before Encryption	m.riabiyi@nau.edu.ua
2335	18:30-18:45	Waste classification using Random Forest classifier with DenseNet201 deep features	kakyol@kastamonu.edu.tr

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<https://us06web.zoom.us/j/87183622838?pwd=VEdHN3JTUjdqYkd4WXlZZWg2d1djZz09>

Meeting ID: 871 8362 2838

Passcode: 855813

Section 2. Perfection of Computer Algorithms and Methods

Section Chair

Prof. Solomiia Fedushko

Section Co-Chairs

Prof. Sergiy Gnatyuk

Dr. Oleksii K. Tyshchenko

Dr. Ivan Izonin

ID	Time	Paper title	Author Email
2317	10:00-10:15	Multidimensional Ranking and Taxonomic Analysis of the Regional Socio-Economic Development in Ukraine	lzomchak@gmail.com
2075	10:15-10:30	Platform Construction and Structural Design of Passionfruit Picking and Sorting Robot under the Guidance of TRIZ	hcaigui@163.com
2325	10:30-10:45	Radial Mean LBP (RM-LBP) for Face Recognition	shekhar.karanwal@gmail.com
2344	10:45-11:00	An Increased Implementation of Generalized Sidelobe Canceller Based on the Expectation - Maximization Algorithm	quantrongthe1984@gmail.com
2348	11:00-11:15	Pedestrian Re-Identification Combined with Triplet Metric Learning and Dual-domain Filtering in Noisy Scene	19671869@qq.com
2351	11:15-11:30	Performance Analysis of Free Text Keystroke Authentication using XGBoost	ievgeniia.kuzminykh@kcl.ac.uk
2352	11:30-11:45	Cyberbullying Detection and Classification in Social Media Texts Using Machine Learning Techniques	akinyemijd@gmail.com
2363	11:45-12:00	Detection of Potential Mosquito Breeding Sites using CNN and Fewshot Learning	e16028@eng.pdn.ac.lk
2365	12:00-12:15	Spatial-Temporal Graph Neural Network based Anomaly Detection	yanranyaya@126.com
2099	12:15-12:30	Development and Application of Ship Lock System Simulation Modules Library	333240@whut.edu.cn
2431	12:30-12:45	Hardware Modified Additive Fibonacci Generators Using Prime Numbers	mariia.m.mandrone@lpnu.ua

2433	12:45-13:00	Data acquisition system for monitoring soil parameters	tetiana.i.fedyshyn@lpnu.ua
2073	13:00-13:15	Improving Piezoceramic Artificial Muscles for Flying Insect-Sized Mini Robots	b_constantine@ukr.net
2110	13:15-13:30	Hydrodynamics of Inhomogeneous Jet-Pulsating Fluidization	bogdanko@gmx.net
2138	13:30-13:45	Approaches to Improving the Accuracy of Machine Learning Models in Requirements Elicitation Techniques Selection	dgobov@kpi.ua
2143	13:45-14:00	Analysis of Threat Models for Unmanned Aerial Vehicles from Different Spheres of Life	ganna.martyniuk@gmail.com
	14:00-15:00	Break Time	
2191	15:00-15:15	Identification of Soil Water Potential Sensors Readings in an Irrigation Control System Using Internet-of-Things (IoT): Automatic Tensiometer and Watermark 200SS	kovalchuk.pavlo.ivanovich@gmail.com
2192	15:30-15:45	Machine Learning Algorithms Comparison for Software Testing Errors Classification Automation	oleshchenkoliubov@gmail.com
2198	15:45-16:00	Machine Learning for Unmanned Aerial Vehicle Routing on Rough Terrain	ievgen.sidenko@chmnu.edu.ua
2213	16:00-16:15	Improvement of the Dispenser of the Liquid Fertilizer Dosing Control System for Root Feeding of Crops	s.filimonov@chdtu.edu.ua
2221	16:15-16:30	A System of Stress Determination Based on Biomedical Indicators	lesia.i.mochurad@lpnu.ua
2224	16:30-16:45	Sub-Gigahertz Wireless Sensor Network for Smart Clothes Monitoring	oleshchenkoliubov@gmail.com
2269	16:45-17:00	Fairness Audit and Compositional Analysis in Trusted AI Program	sdolgikh@nau.edu.ua
2275	17:00-17:15	Oddity based botnet recognition utilizing AI model in the Internet of Things Framework	rupachoudhary2010@gmail.com
2226	17:15-17:30	Paradoxical Properties Research of the Pursuit Curve in the Intercepting a Fugitive Problem	oleshchenkoliubov@gmail.com
2294	17:30-17:45	Sector-independent Integrated System Architecture for Profiling Hazardous Industrial Wastes	nwankwo.wilson@edouniversity.edu.ng
2277	17:45-18:00	Determination of Brachistochronous Trajectories of Movement of a Material Point in a One-Dimensional Vector Field	Viktor.legeza@gmail.com
2280	18:00-18:15	A Fuzzy based Predictive approach for Soil Classification of Agricultural Land for the efficient cultivation and harvesting	sandeep.hegdey@gmail.com

2306	18:15-18:30	Data security and privacy ensuring in the transmission process by radio channel from UAV to ground station	s.gnatyuk@nau.edu.ua
3048	18:30-18:45	Investigation of Drawbacks of the Software Development Artifacts Reuse Approaches Based on Semantic Analysis	olena.chebaniuk@npp.nau.edu.ua

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Warsaw time at 10:00 AM

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<https://us02web.zoom.us/j/88211186296?pwd=RS93U3czTmNyNzIKb0MxNjNRRG5uQT09>

Meeting ID: 882 1118 6296

Passcode: 068124

Section 3. Advances in Technological and Educational Approaches

Section Chair

Prof. Vadym Mukhin

Section Co-Chairs

Dr. Oleksii Dovhaniuk

Prof. Orest Kochan

Prof. Z.B. Hu

ID	Time	Paper title	Author Email
2310	10:00-10:15	Design and Development of a Hybrid Eye and Mobile Controlled Wheelchair Prototype using Haar cascade Classifier: A Proof of Concept	ykahmed@ualberta.ca
2156	10:15-10:30	The Current Situation and Development Trend of the Evaluation of Moral and Ideological Curriculum in China-Visual Analysis Based on CNKI Publications	w17736621947@163.com
2322	10:30-10:45	A Case-Based Approach in Astrological prediction of Profession Government officer or Celebrity Using Machine Learning	v.snehabarde@gmail.com
2225	10:45-11:00	Teaching Reform and Practice of "Sensor and Detection Technology" Course Based on "Specialty and Innovation Integration" and Project-Based Education	876357930@qq.com
2169	11:00-11:15	Research and Practice of Outcome-oriented Innovative Talent Training System of Material Specialty	caoqian@whut.edu.cn
2423	11:15-11:30	Method of automatic depersonalization of databases for application in machine learning problems	artem.volokita@kpi.ua
2370	11:30-11:45	Exploration of the Application of Project Teaching Method in the Course of Urban Public Transport Planning and Operation Management	22452302@qq.com
2305	11:45-12:00	Collaborative Education Mechanism of in-Depth Integration between Schools and Enterprises under the Background of the Construction of EEE -- Taking the Major of Data Science and Big Data Technology of Nanning University as an Example	Luzhixiang2019@126.com
2429	12:00-12:15	Mathematical Modeling of States of a Complex Landscape System with a Wind Farm	orest.v.kochan@lpnu.ua

2358	12:15-12:30	Logical Relationship Analysis and Architecture Design of Logistics Engineering Curriculum Based on ISM Model	932370009@qq.com
2430	12:30-12:45	Development of Distributed System for Electric Personal Transporters Charging	roman.v.kochan@lpnu.ua
2157	12:45-13:00	The Target Performance Evaluation of College Logistics Teachers Based on AHP-SVM under the Background of "Double First-Class" Construction	495997665@qq.com
2432	13:00-13:15	Environmental Pollution from Nuclear Power Plants: Modelling for the Khmelnytskyi Nuclear Power Plant (Ukraine)	orest.v.kochan@lpnu.ua
2196	13:15-13:30	Dynamic Adjustment of Talent Training Scenario for Electrical Engineering and Automation Majors Based on Professional Investigation	412363055@qq.com
3011	13:30-13:45	Location Optimization of Vessel Traffic Service Radar Station in Expansion Process	huangchuan@tpri.org.cn
3015	13:45-14:00	Research on The Development Path of Domestic Trade Container Transport in China's Ports under The New Situation	wuhy@tpri.org.cn
	14:00-15:00	Break Time	
3018	15:00-15:15	The Significance and Project Planning of Building a Shipping System in Heilongjiang Province	13611058357@163.com
2081	15:30-15:45	Mindfulness and Academic Achievements of University Students: A Chain Mediation Model	273204008@qq.com
2086	15:45-16:00	Evaluation System of College Students' Key Abilities Development in the Context of "Integration Education of Specialization, Creation and Morality"	819395370@qq.com
2091	16:00-16:15	Exploration and Practice of the Evaluation System of College Teaching Quality Based on MSF Mechanism in OBE Perspective	153862839@qq.com
2144	16:15-16:30	Reform and Practice of Virtual Simulation Practice Course for Logistics Engineering Specialty Based on OBE Concept and School-Enterprise Linkage	281340537@qq.com
2212	16:30-16:45	The Effect of Integrating Higher Vocational Aesthetic and Ideological and Political Education Based on FCE	642320327@qq.com
2178	16:45-17:00	Development of the online library of the university department to support educational activities: a conceptual model	natalia.s.vovk@lpnu.ua
2146	17:00-17:15	Application of Google Workspace in Mathematical Training of Future Specialists in the Field of Information Technology	aap2011@ukr.net
2234	17:15-17:30	Improved Method for Grading Bilingual Mathematics Exams Based on Computing with Words	d.tavrov@kpi.ua

2283	17:30-17:45	Education System Transition to Fully Online Mode: Possibilities and Opportunities	md_asraf@zhcet.ac.in
2320	17:45-18:00	Formal and non-formal education of Ukraine: analysis of the current state and the role of digitalization	marina.nehrey@gmail.com
2336	18:00-18:15	Impact of YouTube Videos in Promoting Learning of Kinematics Graphs in Tanzanian Teachers' Training Colleges	benimbwile1@gmail.com
2421	18:15-18:30	Social Engineering Penetration Testing in Higher Education Institutions	v.sokolov@kubg.edu.ua

Note: Each speech is expected to be about 10 minutes; asking and answering questions is about 5 minutes; and the entire paper speech and interaction is 15 minutes. If you have any questions about the conference program, please don't hesitate to contact us by email iccseea@icics.net.