



**2024 IEEE 5th KhPI Week  
on Advanced Technology  
(KhPIWeek)**

# **CONFERENCE PROGRAM**

**October 07 - 11, 2024**

**Kharkiv, Ukraine**

# SCHEDULE OF CONFERENCE

Time	07.10.2024 Monday	08.10.2024 Tuesday		09.10.2024 Wednesday		10.10.2024 Thursday		11.10.2024 Friday	
9:00		Power & Energy Systems	Industrial Electronics	Power & Energy Systems	Engineering in Medicine and Biology	Computational Intelligence	Dielectrics and Electrical Insulation	Technology and Engineering Management	Dielectrics and Electrical Insulation
10:00									
11:00									
12:00	Opening Ceremony								
13:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
14:00	Power Electronics	Industrial Electronics	Power & Energy Systems	Engineering in Medicine and Biology	Computational Intelligence	Micro- & Nano-technology	Computational Intelligence	Micro- & Nano-technology	Reserve Section
15:00									
16:00									Closing Ceremony
17:00									

## ORGANIZERS



**IEEE Ukraine Section EMB Society Chapter**

**IEEE Ukraine Section PE/IE/IA Societies Joint Chapter**

**IEEE Ukraine Section IE/PE/PEL Societies Joint Chapter**

**IEEE Ukraine Section NANO Council Chapter**

## COMMITTEE

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Mikhail Balaban,	IEEE Ukraine Section, IEEE Ukraine Section NANO Council Chapter
Ievgen Pichkalov,	IEEE Ukraine Section, IEEE Ukraine Section IE/PE/PEL Societies Joint Chapter, IEEE Ukraine Section PE/IE/IA Societies Joint Chapter
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#### Track 2. Industrial Electronics

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Volodymyr Klepikov, NTU “KhPI”, Ukraine  
Ihor Obruch, NTU “KhPI”, Ukraine  
Dmytro Pshenychnykov, NTU “KhPI”, Ukraine  
Tetiana Kunchenko, NTU “KhPI”, Ukraine  
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Olena Rubanenko, VNTU, Ukraine  
Stanyslav Dryvetskyi, NTU “KhPI”, Ukraine  
Serhii Shevchenko, NTU “KhPI”, Ukraine

#### Track 4. Engineering in Medicine and Biology

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Ukraine  
Pavlo Herasymenko, Institute of Electrodynamics,  
Ukraine

#### Track 5. Micro- & Nanotechnology

Kseniia Minakova, NTU “KhPI”, Ukraine (Chair)  
Andrii Dobrozhan, NTU “KhPI”, Ukraine  
Anton Drozdov, NTU “KhPI”, Ukraine

#### Track 6. Computational Intelligence

Oleksandr Zakovorotnyi, NTU “KhPI”,  
Ukraine (Chair)  
Leonov Serhii, NTU “KhPI”, Ukraine  
Filatova Hanna, NTU “KhPI”, Ukraine  
Svitlana Gavrylenko, NTU “KhPI”, Ukraine  
Kuchuk Nina, NTU “KhPI”, Ukraine  
Mykola Mezentsev, NTU “KhPI”, Ukraine

#### Track 7. Technology and Engineering Management

Taras Danko, NTU “KhPI”, Ukraine (Chair)  
Nataliia Krasnokutska, NTU “KhPI”, Ukraine  
Natalia Shyriaieva, NTU “KhPI”, Ukraine

#### Track 8. Dielectrics and Electrical Insulation

Oksana Borysenko, NTU “KhPI”, Ukraine (Chair)  
Kryvobok Ruslan, NTU “KhPI”, Ukraine  
Kiessaiev Oleksandr, NTU “KhPI”, Ukraine  
Lebedev Vladimir, NTU “KhPI”, Ukraine  
Mardupenko Oleksii, NTU “KhPI”, Ukraine

**07.10.2024**

**OPENING CEREMONY**

**12:00 – 13:00**

<https://us02web.zoom.us/my/khpiweek2024.1>

**Access code: KhPIWeek**

**SECTION 1. POWER ELECTRONICS**

**07.10.2024**

**ORAL SECTION**

**14:00-18:00**

<https://us02web.zoom.us/my/khpiweek2024.1>

**Access code: KhPIWeek**

31	Herasymenko Pavlo, Mehta Saurabh N.	Control of Voltage-Source Series-Resonant Inverters with Extended Topology Using Pulse-Density and Pulse-Frequency Modulations
37	Getman Andriy, Konstantinov Oleksandr	Improvement of the Model of Cylindrical Harmonics of the Magnetic Field of the Electromagnet of the Orientation Control System to Ensure Magnetic Compatibility of the Spacecraft
116	Kostiuchenko Vitalii, Vereshchago Yevhen, Stohniienko Yevhen, Yeremenko Andrii	Modeling of Soft Switching Bridge Converter
162	Ivakhno Volodymyr, Zamaruiev Volodymyr, Plakhtii Oleksandr	Evaluation of the Parameters of a Two-Link Converter with a Current Inverter Link Based on a Modified Zero Topology and Soft Switching for Photovoltaic Systems
166	Shinderuk Svitlana, Batygin Yuriy, Chaplygin Evgen, Gavrilova Tetyana, Yeryomina Olena	Initial Dynamic Characteristics of the Processes Under Magnetic-Pulsed Transportation of the Conductor in the Guiding Structure
202	Kozlov Maksym, Zhuk Dmytro, Zhuk Oleksandr, Linchenko Valentine	High-Frequency Model of the Ship System «Voltage Source Inverter with Pulse Width Modulation – Asynchronous Motor»
264	Pavlov Gennadiy, Obrubov Andrii, Vinnychenko Iryna, Kazariezov Anatolii	Properties of Resonant Converter as Controlled Object with Amplitude Frequency and Pulse-Width Methods of Output Voltage Regulation

## SECTION 2. INDUSTRIAL ELECTRONICS

**07.10.2024**  
**ORAL SECTION**  
**14:00-18:00**

[https://us02web.zoom.us/my/khpiweek2024.2](https://us02web.zoom.us/j/98012345678)

**Access code: KhPIWeek**

8	Busher Victor, Chorny Oleksii, Tytiuk Valerii, Glazeva Oksana, Kuznetsov Vitalii	Features of Space Vector Pulse Width Modulation in 5-Phases Cascaded High Voltage Converters
13	Kropachek Olga, Mygushchenko Ruslan, Suchkov Hryhorii, Baliev Volodymyr, Mygushchenko Kateryna, Kotskalo Kyrylo	Studying Transient Characteristics of Electrical Circuits in Robotics
20	Sushchenko Olha, Salyuk Olexander	Control of Electric Drive for Inertially Stabilized Platform in Tracking Mode
38	Mehta Saurabh N., Modi Riya, Herasymenko Pavlo, Usenko Sergii	Exploring Novel Architectural Elements and Design Concepts for Wireless Sensor Nodes: A Case Study
63	Martynenko Volodymyr	Investigation of Applicability and the Dynamic Behavior of Metal and Epoxy Composite Blades with the Same Airfoil for Generator Cooling Fan
80	Boiko Valerii, Shkardun Oleksandr, Buryk Mykola	The Magnitude and Shape of the Commutating Voltage of a Three-Phase Two-Bridge Compensating Converter
101	Ivanov Dmytro, Bilyk Serhii	Peculiarities of Application of Digital Twin Technology with Predictive Model for Stationary Gas Engines
113	Kuznetsov Borys, Bovdui Ihor, Nikitina Tatyana, Chunikhin Kostiantyn, Voloshko Olena, Kolomiets Valerij	Meta Model of Magnetic Field of Extended Technical Object in Prolate Coordinate System
126	Kyrylenko Yaroslav	Justification of the Principles of Construction of Protection Against Slipping of Rail Vehicles
129	Kuznetsov Borys, Bovdui Ihor, Voloshko Olena, Nikitina Tatyana, Kolomiets Valerij, Kobylanskyi Borys	Nonlinear Dynamics of Electromechanical Tracking Systems
159	Martynenko Gennadii, Martynenko Volodymyr	Experimental Analysis and Modification of the Rotor System with Passive and Active Magnetic Bearings to Improve Its Dynamic Characteristics
167	Pashynskiyi Yurii, Shutovskyi Arsen	Solving Modern Industrial Problems by Applying Fourier Integral Method

**08.10.2024**  
**ORAL SECTION**  
**09:00-13:00**

[https://us02web.zoom.us/my/khpiweek2024.2](https://us02web.zoom.us/j/98012345678)

**Access code: KhPIWeek**

175	Horiashchenko Serhiy	Development Climate Control Using Arduino with Radio Communication Modules
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178	Shapoval Oleksandr, Khrebtova Oksana, Khrebtov Oleg, Rudych Mykhailo, Babaryka Maryna, Kozlovs'Ka Tatyana	The System of Electric Drive of the Dragging Camp During the Automation of the Technological Process of Drawing Steel Wire
184	Nikonov Oleh, Hrinchenko Hanna, Uspensky B.	Monitoring System for the Information and Communication Complex of Ground Mobile Robotic Platforms
216	Kolupaieva Irina, Romashov Yurii, Nevliudov Igor	Electromechanical Systems Continuous Diagnostics Through Parametric Identification and Products Digitalization
248	Derets Oleksandr, Sadovoi Oleksandr, Derets Serhiy	Optimization in Speed of a Positional Electric Drive Using Refined Jerk Prediction Technique
273	Kazurova Alina	Identification of Mathematical Model Parameters of Control Object by S-shaped Acceleration Curve
276	Kotlyarov Vladimir, Buryakovskiy Serhiy, Rybakov Vadym, Lutsenko Heorhii	Method of Graph Transformation in the Conceptual Design of Electric Drives

### SECTION 3. POWER & ENERGY SYSTEMS

**08.10.2024**  
**ORAL SECTION**  
**09:00-13:00**

<https://us02web.zoom.us/j/khpiweek2024.1>

**Access code: KhPIWeek**

17	Zaichenko Stefan, Shevchuk Nataliia, Derevianko Denys, Bielokha Halyna, Wenjun Zhang, Korol Serhii	Computer Simulation of Generator Technical Diagnostics System Based on Internal Combustion Engine
22	Bezzub Maksym, Bialobrzheskyi Oleksii, Oliynichenko Maxim	Open-Pit Railway Transport Traction Complex Power Consumption Mode Modelling
24	Hulevskiy Vadym	On the Issue of Regeneration of Technical Means for Magnetic Cleaning of Dispersed Agricultural Raw Materials
32	Khomiak Eduard	Peculiarities of Voltage Quality Control in Power Supply and Lighting Systems of Cities
41	Solomchak Oleg, Solomchak Antin	Experimental Investigation of the Harmonic Distortion at Points of Common Coupling of Urban Substations
48	Solomchak Oleg, Nykolaychuk Mykola, Solomchak Antin	Modeling and Simulation of Distribution Network with the D-STATCOM and Photovoltaic Power Stations Using MATLAB
69	Bovdui Ihor, Kuznetsov Borys, Nikitina Tatyana, Chunikhin Kostiantyn, Voloshko Olena, Kolomiets Valerij.	Experimental Studies of Effectiveness of Combined Electromagnetic Silence of Power Lines Magnetic Fields
73	Leliuk Mykola	Justification of the Calculation of the Dynamic Characteristics of Porlarized Monostable Electromagnets for Vacuum Switching Devices Using the Combined Method
78	Volkov Volodymyr	Refined Research and Optimization of Energy Modes of a Frequency-Regulated Induction Motor with a Fan Load

88	Kiyanchuk Vladislav, Makhotilo Kostiantyn	Modeling of Domestic Electric Water Heaters for Demand Response
99	Yevseienko Oleh, Kachanov Petro	Smart Grid Technology for Managing Power Supply in Shopping Centers
109	Ivakhnov Andrii, Kulapin Oleksandr, Fedorchuk Stanislav, Makhotilo Kostiantyn, Danylchenko Dmytro, Bulhakov Olexii	Selection of Bess Management Strategy and Capacity for Prosumer Microgrid Revenue
119	Trunova Iryna, Al_Issa Huthaifa A, Miroshnyk Oleksandr, Buinyi Roman, Ladyzhynskii Illia, Halko Serhii	Use of Engineering Management to Improve the Quality of Distribution Networks Maintenance
124	Spodoba Mykhailo, Spodoba Oleksandr	The Effect of the Design Paddle Electrothermomechanical System on Duration of Heating Substance in the Biogas Reactor
<b>08.10.2024</b> <b>ORAL SECTION</b> <b>14:00-18:00</b> <a href="https://us02web.zoom.us/j/khpiweek2024.1">https://us02web.zoom.us/j/khpiweek2024.1</a> <b>Access code: KhPIWeek</b>		
138	Hrinchenko Hanna	Development of the Architecture of Energy-Saving Automated Control System for Heat and Power Enterprises of the National Economy
145	Shram Alexander, Bratkovska Kateryna, Liush Yulia, Politaiev Dmytro	The Use of Energy Storage Systems at Industrial Enterprises
150	Ponomarenko Ihor, Pavlenko Volodymyr	Possibility of Using Blockchain Technology and Artificial Intelligence in Smart Grid Technologies
152	Denys Koliushko, Serhii Rudenko	Correlation of Thermal Mode with the Limit Electrical Load of High Voltage Carbon Resistors
155	Kulagin Dmytro	Mathematical Model of Electromagnetic Transients of a Frequency-Controlled Propeller's Induction Motor
157	Bashynska Iryna	Reducing Energy Consumption of Small Enterprises with Autonomous Power Supply from a Solar Power Plant
160	Shram Alexander, Makhlina Pavlo	Research of the Energy System Operation with Renewable Energy Sources
163	Oksenyuk Ruslan, Miroshnyk Oleksandr, Qawaqzeh Mohamed Zaidan, Myrhorod Denys, Bezruchko Viacheslav, Halko Serhii	Methodology for Calculating the Tilt Angle of Photovoltaic Panels
193	Danylchenko Dmytro	Study of the Possibility of Placing the Transformer Underground in Compliance with the thermal Regime
195	Saukh Sergii, Puchko Taras	Mixed-Integer Linear Programming Solvers for Local Grid Capacity Planning Problems
198	Savchenko Natalia, Dovgalyuk Oksana, Tretiak Andrii	Hybrid Autonomous Street Lighting System with Increased Energy Efficiency
199	Grechko Oleksandr, Kulyk Oleksii	Current State and Future Prospects of Using SF6 Gas as an Insulation in the Electric Power Industry
211	Plakhtii Oleksandr	Evaluation of MPPT Efficiency as a Function of PV Current Ripple



213	Borysenko Anatolii, Kubryk Borys, Lavrinenko Olga, Lytvynenko Svitlana, Ilchakova Yana	Mobile Portable Power Plants Based on Heat Engines Technical Condition Monitoring and Control
<b>09.10.2024</b> <b>ORAL SECTION</b> <b>09:00-13:00</b> <a href="https://us02web.zoom.us/my/khpiweek2024.1">https://us02web.zoom.us/my/khpiweek2024.1</a> <b>Access code: KhPIWeek</b>		
215	Kuznetsov Mikhail	The Impact of the Heat Pump Horizontal Ground Heat Exchanger Operation on the Soil Thermal State
217	Tarasova Victoria	Method of Determining thermophysical Properties of Soil Based on the Solution of Invers Heat Conduction Problems
232	Krysan Iurii	Multiparametric System for Automated Analysis of the Current Technical Condition of Power Transformers
236	Cherniak Olena	Management of Power Grid Modes in Conditions of High Heterogeneity
243	Hovorov Pylyp, Khvorost Mykola, Trish Roman, Hovorov Vladlen, Kindinova Anastasiia	Comprehensive Solution of Issues of Voltage Regulation and Compensation of Reactive Power in Power Supply and Lighting Systems of Cities
261	Bezruchko Viacheslav, Buinyi Roman, Prystupa Anatoliiy, Kozachok Heorhii, Sereda Anatolii	Methods and Means of Increasing the Accuracy of Assessment Technological Losses of Electricity in Distribution Overhead Power Lines
262	Bosyi Dmytro, Sablin Oleg, Potapchuk Iryna	Decentralized Wams for Railway Overhead Lines with Audio-Based Drone Detection
263	Hrinchenko Dmytro, Tarasova Victoria, Kuznetsov Mikhail, Kostikov Andrii, Tarasov Oleksandr, Shaforostov Danylo	Mathematical Modeling of Heat and Mass Transfer in Capillary-Porous Structure of Heat Accumulators with Wet Sand
268	Zaitsev Ievgen, Bereznychenko Viktoriia, Zakusilo Sergy	Compensation of the Electrodes Skewing Error of Runout Capacitive Sensors for Hydro Generators Condition Monitoring System
270	Markov Vladyslav, Hjncharov Yevgen	The Active Power of an Induction Generator with a Single Excitation Capacitor at Different Ways of the Load Switching

## SECTION 4. ENGINEERING IN MEDICINE AND BIOLOGY

<b>08.10.2024</b> <b>ORAL SECTION</b> <b>14:00-18:00</b> <a href="https://us02web.zoom.us/my/khpiweek2024.2">https://us02web.zoom.us/my/khpiweek2024.2</a> <b>Access code: KhPIWeek</b>		
23	Lebedeva Katerina, Lebedev Vladimir, Cherkashina Hanna, Miroshnichenko Denis, Kopach Volodymyr, Klochko Natalia	Kinetics and Degree of Swelling of Hemostatic Hydrogels with a Gelatin-Alginate System Modified with Humic Acids

26	Jiao Hankun, Avrunin Oleg	Explore the Feasibility of Moving an Implant Along an Arc Trajectory for Half a Circle in a Magnetic Stereotaxic System
33	Kolisnyk Kostyantyn	Improvement of Medical Diagnostic Methods for Optimization of Biomedical Indicators
53	Kumeda Mariia, Sukhodub Liudmyla, Sukhodub Leonid, Prokopiuk Volodymyr, Bozhko Nataliia, Yermakov Maksym	Nanoparticle and Polyaniline Loaded Neuroconduits: Electrical and Biological Properties
54	Averianova Liliia	Tumor Segmentation Based on Hybrid MR-Images for Radiation Treatment Planning
55	Sukhonos Olha, Sukhodub Liudmyla, Sukhodub Leonid, Kumeda Mariia	Alginate/Gelatin/Hydroxyapatite Porous Electrically Conductive Osteoplastic Biomaterial
64	Semenets Valerii, Prasol Igor, Hryhoryev Oleksandr, Avrunin Oleksandr, Nosova Yana, Chuhui Yevhen	Study of Energy Density as a Measure of the Impact of Electromagnetic Radiation on Biological Systems
65	Semenets Valerii, Prasol Igor, Hryhoryev Oleksandr, Avrunin Oleksandr, Nosova Tatyana, Moroz Irina	Study of Amplitude-Frequency Characteristics of Biological Tissues
66	Semenets Valerii, Prasol Igor, Hryhoryev Oleksandr, Nosova Tatyana, Chuhui Yevhen, Moroz Irina	Analysis of Human Body Vibrations in the Frequency Domain
68	Averianova Liliia	Aspects of Microscopic Slides Automated Image Processing in Cytogenetic Analysis of Radiotherapy Effects
71	Kolisnyk Kostyantyn	Using Multivariate Regression Models for Restoring Endocrinological Indicators
74	Zhemchuzhkina Tatyana	Analysis of Entropy Indicators of Electromyographic Signals for Differential Diagnostics of Low Back Pain
92	Gorobchenko Olga, Nikolov Oleg, Glibitskiy Dmitriy, Zaitseva Inna, Roshal Alexander, Glibitskiy Gennadiy	Comparative Analysis of Relative Changes in the Characteristics of Absorption and Fluorescence Spectra Dielectric Constant and Parameters of Zigzag Patterns on the Surface of Bovine Serum Albumin Films
106	Misochenko Serhii, Selivanova Karina, Gnetnev Konstantin	Optimisation Methods and Transfer Learning for Brain Tumor Detection Model
115	Chuhui Yevhen, Nosova Tatyana, Filatov Valentin	Advanced Device for Skin Galvanization Therapy

**09.10.2024**  
**ORAL SECTION**  
**9:00-13:00**

<https://us02web.zoom.us/my/khpiweek2024.2>

**Access code: KhPIWeek**

121	Isaieva Olha, Strilets Ivan, Moroz Irina, Filatov Valentin, Rossikhin Vasyl, Shushliapina Nataliia	Peculiarities of Apparatus Methods of Diagnostics of Skin Diseases
139	Rozlomii Inna	Resource-Saving Cryptography for Microcontrollers in Biomedical Devices
153	Linetska Larysa, Kipenskyi Andrii, Demenko Vladislav, Linetskiy Igor, Yefremov Oleg, Kondratiev Andrii	Biomechanical Analysis of Stress Fields in Atrophic Posterior Maxilla with Implant-Supported Cantilever Crown
161	Sokoltsov Andrii, Shushliapina Nataliia, Nosova Yana, Abdelhamid Ibrahim Younouss, Avrunin Oleg	Possibilities of Modern Stereoendoscopy in Rhinology
171	Bondarenko Igor	Application of the Hall Effect to Excite Electric Current in a Biological Substance
174	Savvova Oksana, Fesenko Oleksii, Babich Olena, Yanishyn Ihor, Fedotova Olena, Zaitseva Inna	Basic Principles of Creation of Biomimetic Glass-Ceramic Materials for Dental Use
180	Kolisnyk Kostyantyn, Viktoriia Kolisnyk, Wik Torsten	Using the MATLAB Software Environment for Modeling Biomedical Processes
185	Andrushchenko Marko, Selivanova Karina	Challenges of Tracking Motor Disorders Using Smartphone-Based Computer Vision
186	Kanunnikova Nadiia	Portable Device for Purifying and Disinfecting Water in Extreme Conditions
204	Averianova Liliia	Analysis of CT Parameters of Trabecular Tissue Density of Vertebral Body
210	Kosulina Natalia, Korshunov Kostiantyn, Kosulin Stanislav, Kuskova Svitlana, Chorna Mariia, Sukhin Vitaly	Rationale of the Design of Antenna Systems for the Control of Insect Pests of Agricultural Crops
214	Kosulina Natalia, Korshunov Kostiantyn, Kosulin Stanislav, Shigimaga Victor, Chorna Mariia, Sukhin Vitaly	Mathematical Model of Electromagnetic Field Influence on Plant Environment with Insect Pests

240	Kosulina Natalia, Korshunov Kostiantyn, Kosulin Stanislav, Lyashenko Hennadij, Chorna Mariia, Sukhin Vitaly	Study of a Pulsed Radio Source of Radiation in the Centimeter Range for the Destruction of Insect Pests of Agricultural Crops
247	Lukashuk Denys, Pavlenko V.D.	A Study on the Accuracy of Identification of the Oculo-Motor System Based on Integral Models
258	Kondratiev Andrii, Sutcliffe Michael, Demenko Vladislav, Linetskiy Igor, Yefremov Oleg, Linetska Larysa	Efficiency of Miniplates Fixation in Mandibular Oblique Fractures

## SECTION 5. MICRO- & NANOTECHNOLOGY

**09.10.2024**

**ORAL SECTION**

**14:00-18:00**

<https://us02web.zoom.us/j/khpiweek2024.2>

**Access code: KhPIWeek**

5	Olga Zaichenko, Hapon Nataliia, Khoroshailo Iurii, Oleksandrov Yuriy, Shtanko Valentyna	Filament for 3D Printing Sample Location in the Waveguide Optimization to Decrease Mismatch Uncertainty
14	Fedonenko Alina, Adach Kinga, Petrushenko Sergey, Shepotko Yevhenii, Kopach Volodymyr, Klochko Natalia	Wide Band Gap Nanostructured Marshite and Digenite Films Deposited by Automatic SILAR Method
36	Avramov Konstantin	Asymptotic Analysis of Nonlinear Modes of Multi-Walled Nanotubes
40	Riabchykov Mykola	Determination of the Distribution of Iron Oxide Nanoparticles Deposited on Textile Fibres with Limited Optical Observation Data
51	Nazarenko Volodymyr, Lopatko Konstantin, Vynarchuk Kateryna, Zazymko Oksana, Zakharchenko Serhiy	Using Electrospark Erosion Method to Obtain Metal Nanoparticles
61	Avramov Konstantin	Influence of Surface Effect on Linear Vibrations of Multi-Walled Nanoshell
77	Klochko Natalia, Petrushenko Sergey, Kopach Volodymyr, Zhadan Dmytro, Adach Kinga, Dukarov Sergei	Nonstoichiometric Nickel Oxide Films Deposited by SILAR Method on Flexible Polyimide Substrates
84	Svystunov Oleh, Degtyarev Andrey, Muntean Konstantin, Maslov Vyacheslav, Dubinin Mykola	Propagation of Terahertz Laser Vortex Beams from a Metal Waveguide Resonator
87	Herasymov Serhii	Threshold Conditions for 1-D Model of Solid-State Laser Cavity Covered with Noble Metal Film
94	Kukurudziak Mykola	Low-Voltage Silicon P-I-N Photodiode with Increased Collection Coefficient of Minority Charge Carriers and Responsivity

111	Kirichenko Mykhailo, Zaitsev Roman, Minakova Kseniia, Dobrozhan Andrii	Experimental Approval of the Working Modes of the Sunbrick Sun Simulator
135	Drozdov Anton, Minakova Kseniia, Zaitsev Roman, Kirichenko Mykhailo	Influence of the Substrate Material on the Structural Properties of Cadmium Telluride Films
144	Dyadenchuk Alena, Miroshnyk Oleksandr	Research on the Performance of Porous-Si/Si Photoconverters by Optimizing the Anti-Reflective Coating Using PC1D Modeling
156	Rybin Oleg, Raza Muhammad, Shulga Sergey, Shahbaz Amna, Kobieliev Oleksii, Baula Trokhym	Cloak Control of thermal and Electric Fields in Anisotropic Semiconductor Concentrically Inhomogeneous Media
169	Rezinkina Marina, Rezinkin Oleg, Braxmaier Claus, Jelezko Fedor	Miniature Hybrid Quantum Optomechanical Sensors for Acceleration Measurements
177	Yermakov Maksym, Pshenychnyi Roman, Opanasyuk Anatoliy, Yevdokymenko Vladyslav, Novhorodtsev Anatolii, Shkyria Yurii	Effect of Indium Doping on Structural and Optical Characteristics of ZnO:In Nanoparticles
<b>10.10.2024</b> <b>ORAL SECTION</b> <b>14:00-18:00</b> <a href="https://us02web.zoom.us/my/khpiweek2024.2">https://us02web.zoom.us/my/khpiweek2024.2</a> <b>Access code: KhPIWeek</b>		
181	Kanunnikova Nadiia	How the Parameters of Pulse Electrolysis Determine the Structure of Chromium Oxide Composites
188	Zabiiaka Nataliia, Kanunnikova Nadiia	Aluminum as an Alternative Source of Hydrogen in Energy Production
191	Shelest Tetiana, Meriuts Andrii, Vodoriz Olga, Khrarov Tatiana	Distribution of the Seebeck Coefficient in Bi <sub>2</sub> Te <sub>3</sub> Obtained by Direct Melting Method
192	Buryk Ivan	Numerical Modeling and Optimization of Solar Cells based on the WSe <sub>2</sub> /MoS <sub>2</sub> p-n Heterojunctions
201	Andreiev Oleksandr, Andreieva Olga, Abramov Fedir	Running Wave Interferometer with Active Medium
218	Poyedinchuk Anatoliy, Melezhik Petro, Yashina Natalia, Sirenko Kostyantyn	Modeling of a Graphene Monolayer on Metal Substrate: Resonance Regimes
221	Kaliberda Mstyslav, Pogarsky Sergey	Infrared H-Polarized Plane Wave Scattering by Dielectric Cylinder with Coplanar Graphene Strips
237	Martynov Danylo, Snizhko Dmytro, Slipchenko Mykola, Zholudov Yurii	Effect of Lithium Ion on Electrochemiluminescent Response of Sensors Based on Langmuir-Blodgett Films with Polycyclic Organic Phosphors

246	Rogachova Olena, Menshikova Svitlana, Martynova Kateryna, Shelest Tetiana, Meriuts Andrii, Nashchekina Olga	Effect of Transition to Impurity Continuum on thermoelectric Properties of the Semiconductor $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Se}_3$ Solid Solutions
251	Chernobryvko M, Avramov K	Using Nanocomposite Materials to Strengthen Cylindrical Panels with Complex Base
253	Zholudov Yuriy, Semenii Oleksandr, Bakin Serhii, Volodymyr Kyrii, Xu Guobao, Snizhko Dmytro	Electronic Parts to Design Colour Measurements Device for Analytical Applications
274	Shtoda Dmitry, Zozulia Valerii, Botsula Oleg, Berdnik Sergey, Prykhodko Kyrylo, Fedosova Svetlana	2D $\text{MoS}_2$ Layer as Element of Terahertz Range Antenna
279	Dobrozhan Andrii, Minakova Kseniia, Zaitsev Roman, Kirichenko Mykhailo, Drozdov Anton	Calculated Elastic Constants of CdS and CdTe Thin Films with Cubic and Hexagonal Crystal Structure for Stress Problems
281	Maizelis Antonina	Stripping Voltammetry of Zn-Ni-Cu Alloy Nanoscale Films
282	Konotopyskyi Leonid	Fabrication and Investigation of W/Mg <sub>2</sub> Si Multilayer X-Ray Mirrors for the 0.9-2.5 nm and 25-35 nm Wavelength Ranges

## SECTION 6. COMPUTATIONAL INTELLIGENCE

**09.10.2024**

**ORAL SECTION**

**14:00-18:00**

<https://us02web.zoom.us/my/khpiweek2024.1>

**Access code: KhPIWeek**

11	Zanevskyy Ihor, Zanevska Lyudmyla	Data Analysis of Vibrations in the Compound Open Kinematical Chain
19	Zaiets Nataliia	Monitoring and Forecasting Quality Indicators of Predough Production in the Bakery Industry
21	Demkivska Tetiana, Demkivskyy Ievgen, Chuprynka Viktor, Chuprynka Nataliia, Naumenko Bohdan	Automatic Construction of Lattice Rational Material Cutting Schemes for a Combination of Two Flat Geometrical Object with Different Configuration External Contours
28	Romasevych Yuriy, Loveikin Viatcheslav, Brand Ziv	Influence of Swarm Connectivity on l-best PSO Performance
29	Romasevych Yuriy, Loveikin Viatcheslav	Robot Manipulator Optimal Control via Ring-Rot-PSO Algorithm
45	Matvieiev Mykyta, Kuchuk Heorhii, Grynov Denys, Zykov Igor	Client Web Application with Augmented Reality Technology
46	Krylova Viktoriia, Ivashko Andrey, Petrenko Oleh	Detection of Cardiac Arrhythmias Using Neural Network-Based Heart Rate Variability Analysis

56	Kolomiitsev Oleksii, Kuznietsov Oleksandr, Kovalchuk Andrii, Barkhudaryan Mykola, Karlov Volodymyr, Vasylyshyn Volodymyr	Analysis of Influence the Radar Signal Correlated Phase Fluctuations on Tracking Quality of Aerodynamic Objects at the Doppler Frequency
57	Kolomiitsev Oleksii, Katunin Albert, Kulakov Oleg, Panchenko Volodymyr, Skorodielov Volodymyr, Brechko Veronika	Using Information Technology to Assess the Impact of the Chemical Composition of the Conductive Veins on the Operational Characteristics of an Isolated Electrical Conductor
58	Kolomiitsev Oleksii, Borozenets Igor, Osiievskiy Serhii, Nesmiian Oleksii, Tretiak Viacheslav, Rudakov Ihor	Evaluation of the Operator's Performance in a Complex System with Regard to the Factors of Information Processing Intellectualization
62	Kaliukh Iurii, Sedin Volodymyr, Tytarenko Volodymyr, Berchun Yaroslav, Klymenkov Oleg, Zhukovskyy Viktor	Utilizing a Digital Twin in the Elimination of Excessive Foundation Tilts in a Multi-Story Building Using Blockchain Technology
67	Kovalenko Bogdan, Lukin Vladimir, Vozel Benoit	MSE Prediction in BPG-based Lossy Compression of Grayscale Images
72	Karaman Dmytro, Zuev Andrey, Yevsina Natalia	Method of Compression and Compact Storage of Elevation Fields for Landscape Models in Simulators
76	Zaidman Grigoriy, Yakubovskiy Sergiy, Romanenko Svitlana	Modeling Dynamics of Dry Bulk Shipping Freight Rates and Market Capitalization Based on Analysis of Structural Market Data
81	Zakovorotnyi Oleksandr, Khulap Andrii	Optimization of Neural Network Calculations Using Integer Arithmetic
83	Smalko Olena	Landscape Generation Using Discrete Hydrodynamic Models
85	Lipianina-Honcharenko Khrystyna, Bohuta Hennadii, Lendiuk Dmytro, Soia Mariana, Ivaniush Adam, Yurkiv Khrystyna	An Intelligent Method for Recognizing Real and Generated Ukrainian-Language Voices
86	Leonov Sergey	Deep Learning in Neural Networks and External Criteria
97	Emelyanov Leonid, Pulyayev Valeriy, Rogozhkin Evgenii, Kuzmenko Nataliia	Calculation of Coded Pulses to Improve Sounding Modes in the Incoherent Scatter Technique
104	Saukh Sergii, Kliuzko Oleksii	Optimization Model for Electricity Supplier Company's Purchase-Sale Portfolio

**10.10.2024**  
**ORAL SECTION**  
**09:00-13:00**

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**Access code: KhPIWeek**

105	Barkovska Olesia, Velykodnyi Ihor, Liashenko Oleksii, Davydov Yaroslav, Ivanisenko Ihor	Study of the Architectural Features of the Resnet Neural Network Model for Solving the Task of Speaker Recognition
108	Shantyr Anton	Methodology for Quantitative Assessment of Quality Characteristics in Distributed Systems and Microservices
112	Hasanov Mehman, Piriev Sahib, Atayev Nadir, Devrishova Irade, Rasullu Turana, Yusifli Ulvi	The Markov Model of Free Space Optical Network Monitoring System
114	Uspenskyi Valerii, Shyriaieva Natalia	Self-Organization Algorithms for Movement Control of a Multicopter Swarm
117	Yehorov Nazar, Zaliskyi Maksym, Chumachenko Bohdan, Bakhtiiarov Denys	A Method for Deterministic Signal Detection on the Background of Noise Based on the Neural Network
118	Vlasenko Pavlo, Khatsko Nataliia, Gavrylenko Svitlana, Khatsko Kyrilo, Shebanov Yevhenii	Principle of Naming Files in Electronic Data Interchange
120	Rozlomii Inna, Yarmilko Andrii, Naumenko Serhii	Microprocessor Systems and Data Security: Cryptoprotection Strategies
122	Adamenko Anatolii, Zakovorotnyi Oleksandr, Kuchuk Nina	Analysis of Methods of Building and Researching of Fuzzy Cognitive Models
131	Ostroumov Ivan, Kuzmenko Nataliia	Graph Analysis of Ukrainian Airport Network Change
132	Ostroumov Ivan, Tkachuk Daria	Effective Mission Planning for Unmanned Aerial Vehicles
137	Malokhvii Eduard, Kuchuk Heorhii, Filatova Anna, Klivets Sergii	Optimizing Resource Allocation in Fog Computing for IoT by Integrating Trust Mechanisms and Dynamic Task Management
141	Kovalenko Sergii, Kovalenko Svitlana, Kutsenko Alexander, Godlevskyi Mykhailo, Severin Valery, Kovalenko Anton	Methodology for Creating Annotated Datasets of Biological Objects on Microscopic Images
142	Datsenko Serhii, Kuchuk Heorhii, Kuleshov Alexander	Overview of Existing Methods for Detecting Fake News in Social Media
165	Podorozhniak Andrii, Mishchuk Vadym	Analysis of Trade-offs Between Accuracy and Speed of Real-Time Object Detectors for the Tasks of Explosive Ordnance Detection



172	Poddubnyi Vadym, Gvozdov Roman, Sievierinov Oleksandr, Sukhoteplyi Vladyslav, Bulba Serhii, Lysytsia Dmytro	A Zero-Watermarking Algorithm for Use in RGB and Monochrome Images
173	Poddubnyi Vadym, Gvozdov Roman, Sievierinov Oleksandr, Heiko Hennadii, Noskov Valentin, Sydorenko Zoia	Object-Oriented Model of Formal Description of the Information and Communication System
183	Poroshenko Anton, Kovalenko Andriy, Ruban Igor	Information Technology for Audio Analytics System
187	Paul Arunya, Kar Tejaswini, Pahadsingh Sasmita, Chandra Giri Nimay, Orlova Tetiana, Dryvetskyi Stanislav, Rubanenko Olena, Rubanenko Olexander	Visual Image Caption Generation with Convolution Neural Networks and Long Short Term Memory
189	Levterov Andrii, Pliekhova Hanna, Kostikova Maryna, Berezhna Nataliia, Okun Anton	Investigating Secure Routing Methods in Software-Defined Networking
<p><b>10.10.2024</b>  <b>ORAL SECTION</b>  <b>14:00-18:00</b>  <a href="https://us02web.zoom.us/j/khpiweek2024.1">https://us02web.zoom.us/j/khpiweek2024.1</a>  <b>Access code: KhPIWeek</b></p>		
196	Lukin Vladimir, Uss Mikhail, Vozel Benoit	Uncertainty of Patch Matching for Isotropic and Anisotropic Textures of Multimodal Remote Sensing Images
197	Mykhailichenko Ihor, Liashenko Oleksii, Ivashchenko Heorhii, Filimonchuk Tetiana	Transformative Neural Networks for Technical Text Generation: Context Length Dependence Analysis
206	Chernova Natalia, Serhiienko Olena, Ippolitova Inna, Petrukhnov Oleksiy, Kaganovskyy Oleksandr, Negliad Andrii	Modeling Energy System Basing on Ontology Approach: Ukrainian Case
207	Pylypenko Vladyslav, Statsenko Volodymyr, Skidan Vladyslava, Volivach Antonina	Investigation of the Accuracy of Machine Learning Methods in Prediction of Students Success
209	Shapovalova Mariia, Vodka Oleksii, Hritskova Valeriia, Semenenko Oleh	Software Development for Modeling Microstructures of Polycrystalline Materials by Cellular Automata Method
226	Gavrylenko Svitlana, Poltoratskyi Vadym	Detection Computer Network Intrusion Using Deep Neural Networks
227	Gavrylenko Svitlana, Zozulia Vladislav, Khatsko Nataliia	Method of Detection of Intrusions Based on Stacking Meta-Algorithm

229	Povoroznjuk Anatoliy Ivanovich, Filatova Anna, Povoroznyuk Oksana	Heterogeneous Ensemble Classifier in Medical Decision Support Systems
230	Khovrat Artem, Kobziev Volodymyr	Using Naïve Bayes Classifier to Identify Falsified Text Information
234	Shyman Anna, Kuchuk Nina, Kovalenko Andriy, Kashkevich Svitlana, Partyka Stanislav, Yankovskyi Oleksandr	The Method of Dynamic Routing in Self-Healing Networks
245	Trembovetskyi Roman, Rozlomii Inna, Chemerys Marharyta	Application of Transformers in Financial Analysis: Forecasting Stock Prices and Trading Volumes
256	Choudhary Neelam, Degtyariov Kyryl, Gnitko Vasyl, Kriutchenko Denys, Korneichuk Nikita, Strelnikova Elena	Tuned Liquid Damper for Vibration Control of Structures Under Fuzzy Loading
259	Zamrii Iryna, Shakhmatov Ivan	Methodology for the Use of Machine Learning in the Effective Filtering of Web Spam
260	Podorozhniak Andrii, Oliinyk Vasyl, Liubchenko Nataliia	Strategies for Filtering Unwanted Comments in Social Media
265	Rykova Valeriia, Vodka Oleksii, Potopalska Ksenia, Abdusalamov Rasul	Development of an Algorithm and Software for Modeling the Structure and Mechanical Behavior of Aerogels
266	Hunko Mykhailo	Method for Organizing Fog Computing in Dynamic Polling Networks
269	Dashkevych Andrii	Drone Image Reconstruction Using Autoencoder Architecture
271	Kopp Andrii, Orlovskyi Dmytro, Orekhov Sergey	Business Process Control-Flow Complexity Prediction Using Machine Learning-Based Tool
280	Fomenko Nataliia, Larin Oleksiy	Symbolic Regression-Based Models for Hyperelastic Material

## SECTION 7. TECHNOLOGY AND ENGINEERING MANAGEMENT

**11.10.2024**

**ORAL SECTION**

**09:00-13:00**

<https://us02web.zoom.us/my/khpiweek2024.1>

**Access code: KhPIWeek**

130	Bogoyavlenska Yuliya, Pileliene Lina	Artificial Intelligence in Influencer Marketing Research: Tendencies and Perspectives
102	Kopteva Hanna, Krasnokutska Nataliia, Kruhlova Olena	Managerial Approaches to Navigating Renewable Energy Investment Globally
79	Kopteva Hanna, Sokol Yevgen, Marchenko Andrii, Kryvobok Ruslan, Shmatko Nataliia, Volosnikova Nataliia	Strategy for Creating and Ensuring Sustainable Development of the Innovative Ecosystem of the University

208	Maslak Olga, Maslak Mariya, Grishko Natalya, Yakovenko Yaroslava, Hlazunova Olha, Antonov Andrii	The Role of Electrical Engineering and Digital Technologies in Sustainable Mining: A Path to Ecological and Economic Prosperity
148	Dykha Mariia, Dykha Valerii, Liubokhynets Larysa, Tanasiienko Nataliia, Bushovska Lesia, Poplavskiy Yevhenii	Prerequisites for the Formation of a Mechanism for Ensuring the Economic Security of Energy Market Entities
149	Tatarintseva Yuliia, Kryvobok Ruslan, Kudii Maria	Synergy of Engineering Management and Digital Marketing in the Production of Paving Tiles
241	Kolontai Svitlana	Determination of the Innovative Activities Efficiency of Electrical Engineering Enterprises
257	Brin Pavlo, Prokhorenko Olena, Danko Taras, Lombardi Rosa, Principale Salvatore, Savio Riccardo	Indirect Influence of Renewable Energy Usage on Countries' Stability and Companies' Competitiveness: A Preliminary Analysis
125	Novikova Iryna	The Emerging Institutional Order in Dual-Use Technology Transfer and Its Impact on Intellectual Capital Divergence in the Global Economy
127	Stepnicka Nina Małgorzata, Sitak Iryna	Carpooling as a Manifestation of Collective Intelligence and a Response to the Crisis of Sustainability in Today's ICT-Based Economy
95	Moiseev Viktor, Manoilo Eugenia, Zhuga Oleg, Davydov Denis, Arslanaliiev Tymur, Moskal Mykola	Industry 4.0 Technologies in the Design of Reliable Systems in Chemical Engineering

## SECTION 8. DIELECTRICS AND ELECTRICAL INSULATION

**10.10.2024**

**ORAL SECTION**

**9:00-13:00**

<https://us02web.zoom.us/my/khpiweek2024.2>

**Access code: KhPIWeek**

15	Miroshnichenko Denis	Coke Electrical Resistivity as Cumulative Characteristic of its Properties
16	Koval Valentine, Miroshnichenko Denis, Soloviov Yevhen	Improving the Electrical Resistivity of Blast-Furnace Coke
25	Lvov Gennadiy	Design of Near-Zero thermal Expansion Polymer Composites
47	Tulska Alona	Technological Control of the Petroleum Pretreatment Unit Based on the Indicator of Its Relative Dielectric Permittivity
50	Bannikov Artem Leonid, Nesterenko Serhiy, Cheshko Fedir, Bannikov Leonid, Borisenko Olexander, Koval Valentine	Dielectric Properties and Electrical Conductivity as a Characteristic of Degradation of Coal Tar Wash Oil

82	Borysenko Oksana, Logvinkov Sergey, Shabanova Halyna, Arefiev Vadym, Ishchenko Anton	Regulating the Properties of Dielectric Materials in the MgO – Al <sub>2</sub> O <sub>3</sub> – TiO <sub>2</sub> System
96	Shulga Igor	Specific Electrical Resistance of Coke as a Characteristic of its Consumer Properties
103	Riabchenko Maksym, Lebedev Vladimir, Cherkashina Hanna, Kryvobok Natalia, Bliznyuk Aleksandr, Shestopalov Oleksii	Computer Modeling of Optimal Chemical Composition of Polymer Epoxy Composites for Electromagnetic Radiation Absorbing
107	Taranenkova Viktoriia, Logvinkov Sergey	Ternary Compounds of the BaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> System and Heterogeneous Dielectrics Based on them
134	Myronyuk Oleksiy, Pitak Yaroslav, Bilousova Anna, Li Che	Zinc Oxide Based Particles with Hierarchical Structure for Surface Wetting Modification
136	Karandashov Oleh, Avramenko Viacheslav, Pidhorna Lidiia	Increasing the Heat Resistance and Reducing the Flammability of Reinforced Plastics Used for Electroengineering Purposes
<p><b>11.10.2024</b>  <b>ORAL SECTION</b>  <b>09:00-13:00</b>  <a href="https://us02web.zoom.us/my/khpiweek2024.2">https://us02web.zoom.us/my/khpiweek2024.2</a>  <b>Access code: KhPIWeek</b></p>		
146	Baklan Denys, Bilousova Anna, Pitak Yaroslav	Wetting of PLA Solution Blow Spinning Nonwoven Materials
147	Myronyuk Oleksiy, Baklan Denys, Bilousova Anna, Vanagas Egidijus, Šlevas Paulius, Pitak Yaroslav	Laser Processing Parameters Optimization of Carbon Fiber Reinforced Structural Plastics
151	Kryvobok Ruslan, Bilohubkina Karyna, Fedorenko Olena, Lisachuk Georgiy, Voloshchuk Valentyna, Tarasenko Oleksandr, Tataryntseva Yuliia, Tarasenko Mykola	Technology of Production of Radio-Transparent Ceramic Materials
154	Adashevskiy Oleh, Sebko Vadym, Zdorenko Valerii, Zashchepkina Nataliia, Sakun Antonina, Zabiiaka Nataliia	A Multi-Parameter Method for Dielectric Liquid Media Physical and Chemical Parameters Determining
164	Khrystych Olena, Korohodska Alla, Shabanova Halyna, Kustov Maksim	Special Properties of Composite Materials of Alkaline Earth Element Oxide Compounds

176	Kopylov Serhii, Cherkashina Hanna, Kiessaiev Oleksandr, Avina Svitlana, Kariiev Artem, Sincheskul Alexander	Determining Dielectric Properties of Wood-Polymer Composite from Secondary Thermoplasts with Modified Wood Filler
182	Tsapko Nataliia	Analysis of Peculiarities of Phase Formation of Ferromagnetics of CoO – BaO – Fe <sub>2</sub> O <sub>3</sub> System
200	Savvova Oksana, Tur Oleh, Tymofieiev Vadym, Fesenko Oleksii, Hordiichuk Valerii, Tymoshchuk Maksym	High-Strength Radio-Transparent Glass-Ceramic for Armor Protection of Ground and Aviation Equipment
225	Kariiev Artem, Herasymenko Vitalii, Danchenko Yuliya, Kolochko Hanna, Tyhomyrova Tetiana, Lebedev Vladimir	Research on the Impact of Climatic Factors on the Properties of Plant-Polymer Composites
249	Fedorenko Olena Yuriiivna	Theoretical Foundations and Synthesis of Spinel-Type Ferrites Using the Nitrate-Citrate Method

**11.10.2024**

**RESERVE SECTION**

**14:00 – 16:00**

<https://us02web.zoom.us/my/khpiweek2024.2>

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**11.10.2024**

**CLOSING CEREMONY**

**16:00 – 17:00**

<https://us02web.zoom.us/my/khpiweek2024.1>

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