

**9th International IEEE Conference
Dependable Systems, Services and Technologies
DESSERT'2018
Kyiv, May 24-27**

May 24

9.00 – 14.00. **Registration for IEEE DESSERT'2018**

14.00 – 15.45. **Plenary session PS1 - Dependable World and Cyber Computing**

14.00 – 14.20. **Welcome.**

TBA

- *Vyacheslav Kharchenko, General Chair of the IEEE DESSERT'2018 Conference, Head of CSNCS Department, National Aerospace University KhAI (Ukraine)* **TRENDS OF THE DESSERT COMMUNITY**

14.20 – 14.35.

- *Mikhail Yastrebenetsky (Ukraine), Alexander Bochkov (Russia), Ekateryna Gnedenko and Charles Recchia (USA).* **GNEDENKO-FORUM AND IEEE (RELIABILITY)**

14.35 – 15.10.

- *Andrzej Rucinski, University of New Hampshire, eCv Collaboratory (USA).* **HOMO HOMINUS: VITRUVIAN AND DEPENDABLE CYBER SOCIETY**

15.10 – 15.45.

- *Vladimir Hahanov, Kharkiv National University of Radioelectronics (Ukraine).* **SOCIAL COMPUTING: CHALLENGES AND SOLUTIONS**

15.45 – 16.15. *Coffee-break*

16.15 – 18.00. **Session S1.1/SR – Software quality and reliability**

Moderators: *Dr. Tetiana Hovorushchenko, Prof. Dmitry Maevsky*

- *Tetiana Hovorushchenko and Oksana Pomorova.* **METHODOLOGY OF EVALUATING THE SUFFICIENCY OF INFORMATION ON QUALITY IN THE SOFTWARE REQUIREMENTS SPECIFICATIONS**
- *Oleksandr Gordieiev and Vyacheslav Kharchenko.* **IT-ORIENTED SOFTWARE QUALITY MODELS AND EVOLUTION OF THE PREVAILING CHARACTERISTICS**
- *Dmitry Maevsky, Dmitry Stetsyuk, Elena Maevskaya and Bogdan Stetsyuk.* **PROBABILISTIC ASSUMPTIONS OF SOFTWARE RELIABILITY GROWTH MODELS**
- *Oleksandr Rudenko, Elena Odarushchenko, Zinaida Rudenko and Maryna Rudenko.* **THE SECONDARY SOFTWARE DEFECTS NUMBER EVALUATION BASED ON CORRECTION OF THE EXPERIMENTAL DATA EXPONENTIAL LINE APPROXIMATION**
- *Roman Odarchenko, Serhii Dakov and Larisa Dakova.* **OPERATOR CLASS SDN AND CLASSICAL IP NETWORK COSTS ESTIMATION**

16.15 – 18.00. **Session S1.2/DD – Dependability of unmanned vehicles, robots and drones**

Moderators: *Dr. Volodymyr Toryanyk, Dr. Dmitriy Kritskiy,*

- *Dmitro Kucherov and Andrei Kozub*. MATHEMATICAL MODEL OF UAV AS AGENT OF MULTIAGENT SYSTEM
- *Dmitriy Kritskiy, Alexander Karatanov, Serhii Koba and Eugene Druzhinin*. INCREASING THE RELIABILITY OF DRONES DUE TO THE USE OF QUATERNIONS IN MOTION
- *Andrii Akymenko, Ol'ha Bashyns'ka and Sergii Nesterenko*. PROBABILISTIC EVALUATING THE RELIABILITY OF THE CONTROL SYSTEM OF THE UNMANNED AVIATION COMPLEX
- *Vyacheslav Kharchenko and Volodymyr Toryanyk*. CYBERSECURITY FOR INTERNET OF DRONES: ANALYSIS OF THE VULNERABILITIES AND IMECA BASED ASSESSMENT
- *Oleksandr Gerasin, Yuriy Kondratenko and Andriy Topalov*. DEPENDABLE ROBOT'S SLIP DISPLACEMENT SENSORS BASED ON CAPACITIVE REGISTRATION ELEMENTS

16.15 – 18.00. **Session S1.3/T11 – Telecommunication, image and signal processing (Recognition and Detection)**

Moderators: Prof. Vladimir Lukin, Prof. Volodymyr Panomaryov

- *Marlon Cuevas, Rogelio Reyes, Volodymyr Ponomaryov and Clara Cruz*. SALIENT OBJECT DETECTION IN DIGITAL IMAGES BASED ON SUPERPIXELS AND INTRINSIC FEATURES
- *Igor Ruban, Kirill Smeliakov, Vitalii Martovytskyi, Dmitry Pribyl'nov and Nataliia Bolohova*. METHOD OF NEURAL NETWORK RECOGNITION OF GROUND-BASED AIR OBJECTS
- *Artem Svyrydov, Heorhii Kuchuk and Olha Tsiapa*. IMPROVING EFFICIENCY OF IMAGE RECOGNITION PROCESS: APPROACH AND CASE STUDY
- *Oleh Viunytskyi, Alexander Totsky, Vyacheslav Shulgin and Valery Sharonov*. BISPECTRUM-BASED GESTURE RECOGNITION TECHNIQUE
- *Volodymyr Palahin, Jozef Juhár, Serhiy Leleko, Elena Palahina and Serhiy Polozhaenko*. COMPUTER SIMULATION OF SIGNAL DETECTION IN NON-GAUSSIAN NOISE WITH THE NEYMAN-PEARSON MOMENT QUALITY CRITERION

16.15 – 18.00. **Session S1.4/C11 – Critical infrastructure and I&C safety and security (CI safety and security)**

Moderators: DrS. Yevhen Brezhniev, Dr. Herman Fesenko

- *L. Lutai, Vyacheslav Kharchenko, R. Fedorenko, and N. Fedorenko*. EXPERT ASSESSMENT OF OPTIONS FOR POST ACCIDENCE MONITORING SYSTEMS WITH MULTI-VERSION STRUCTURE
- *Yevhen Brezhniev*. MULTILEVEL FUZZY LOGIC-BASED APPROACH FOR CRITICAL ENERGY INFRASTRUCTURE'S CYBER RESILIENCE ASSESSMENT
- *Sergiy Gnatyuk and Viktoriia Sydorenko*. UNIFIED DATA MODEL FOR DEFINING STATE CRITICAL INFORMATION INFRASTRUCTURE IN CIVIL AVIATION
- *Volodymyr Zaslavskyi and Maya Pasichna*. STRATEGIC EVALUATION OF ELECTRICITY GENERATION STRUCTURE IN THE EU AND UKRAINE: GEOGRAPHICAL FOCUS
- *Herman Fesenko*. OPTIMAL REDISTRIBUTION OF UAVS IN CASE OF CHANGING MONITORING ZONES AFTER A NPP ACCIDENT

18.00 – 20.00. *Welcome Party*

May 25

9.00 – 10.30. Plenary session PS2 - Standards, Testing and IoT Security

Moderators: Prof. Jüri Vain, Dr Mario Fusani

9.00 – 9.35.

- Dr Mario Fusani, Institute of Information Science and Technologies (ISTI-CNR), System and Software Evaluation Center (Pisa, Italy). ARE SAFETY-CONFORMANT PRODUCTS REALLY SAFE?

9.35 – 10.10.

- Prof Jüri Vain, Department of Software Science, Tallinn University of Technology (Estonia). MARKOV MODEL GUIDED ONLINE TESTING OF MISSION CRITICAL APPLICATIONS

10.10 – 10.30.

- Dr Viktor Kremin, Dr Oleksandr Karpin, Svyatoslav Paliy, Cypress Semiconductor Corporation (Ukraine, USA). FINGERPRINT SENSING AND IDENTIFICATION FOR IOT

10.30 – 11.00. *Coffee-break*

11.00 – 12.45. Session S2.1/BD1 – Big data and data analysis for dependability (Big Data based technologies)

Moderators: Prof. Yuriy Kondratenko, Prof. Skarga-Bandurova

- Ievgen Sidenko, Korinna Filina, Galyna Kondratenko, Danyl Chabanovskyi and Yuriy Kondratenko. EYE-TRACKING TECHNOLOGY FOR THE ANALYSIS OF DYNAMIC DATA
- Svitlana Yaremchuck and Vyacheslav Kharchenko. BIG DATA AND SIMILARITY-BASED SOFTWARE RELIABILITY ASSESSMENT: THE TECHNIQUE AND APPLIED TOOLS
- Dmytro Sitnikov, Oleg Ryabov, Olena Titova and Andriy Kovalenko. ASSESSMENT OF EXTENDED AGGREGATED ASSOCIATION RULES
- Illia Sokolov and Ihor Turkin. RESOURCE EFFICIENT DATA WAREHOUSE OPTIMIZATION
- Andrii Oliinyk, Serhii Leoshchenko, Valerii Lovkin, Sergey Subbotin and Tetiana Zaiko. PARALLEL DATA REDUCTION METHOD FOR COMPLEX TECHNICAL OBJECTS AND PROCESSES

11.00 – 12.45. Session S2.2/ESI – Dependable embedded and programmable systems (Verification and testing)

Moderators: Dr. Oleg Odarushchenko, DrS. Vitaliy Romankevich

- Oleg Odarushchenko, Oleksiy Strjuk, Kostiantyn Leontiiev, Vyacheslav Kharchenko, Alexandr Ivasyuk and Yevhen Bulba. FAULT-INSERTION TESTING: SW & HW FIT-ABILITY, PROCEDURE AND TOOLS FOR SAFETY PLC-BASED SYSTEM SIL CERTIFICATION
- Andrii Feseniuk, Alexey Romankevich, Vitaliy Romankevich and Tetiana Sapsai. ABOUT A FAULT-TOLERANT MULTIPROCESSOR CONTROL SYSTEM IN A PRE-DANGEROUS STATE
- Kostiantyn Zashcholkin and Oleksandr Drozd. THE DETECTION METHOD OF PROBABLE AREAS OF HARDWARE TROJANS LOCATION IN FPGA-BASED COMPONENTS OF SAFETY-CRITICAL SYSTEMS
- Maryna Miroshnyk, Aleksander Shkil, Elvira Kulak, Inna Filippenko, Dariia Kucherenko and Anna Grebenyuk. SYNCHRONIZING SEQUENCES FOR VERIFICATION OF FINITE STATE MACHINES

- *Oleksandr Drozd, Mykola Kuznietsov, Oleksandr Martynyuk and Myroslav Drozd.* A METHOD OF THE HIDDEN FAULTS ELIMINATION IN FPGA PROJECTS FOR THE CRITICAL APPLICATIONS

11.00 – 12.45. **Session S2.3/TI2 – Telecommunication, image and signal processing (Encoding and watermarking)**

Moderators: Prof. Vladimir Lukin, Prof. Volodymyr Panomaryov

- *Oleksii Borysenko, Oleksii Horiachev, Svitlana Matsenko and Oleksandr Kobiakov.* NOISE-IMMUNE CODES BASED ON PERMUTATIONS
- *Sergey Krivenko, Mikhail Zriakhov, Vladimir Lukin and Benoit Vozel.* MSE AND PSNR PREDICTION FOR ADCT CODER APPLIED TO LOSSY IMAGE COMPRESSION
- *David Octavio Muñoz-Ramirez, Volodymyr Panomaryov, Rogelio Reyes-Reyes, Volodymyr Kyrychenko, Oleksandr Pechenin and Alexander Totsky.* A ROBUST WATERMARKING SCHEME TO JPEG COMPRESSION FOR EMBEDDING A COLOR WATERMARK INTO DIGITAL IMAGES
- *Javier Molina-Garcia, Volodymyr Panomaryov, Rogelio Reyes-Reyes, Clara Cruz-Ramos, Valerii Sharonov, Volodymyr Kyrychenko, Oleksandr Pechenin and Alexander Totsky.* PARALLEL SCHEME IN MULTICORE PROCESSORS FOR VIDEO AUTHENTICATION BASED ON WATERMARKING

11.00 – 12.45. **Session S2.4/CII – Critical infrastructure and I&C safety and security (NPP I&C safety and security)**

Moderators: Prof. Mikhail Yastrebenetsky, Anton Andrashov

- *Vyacheslav Kharchenko, Andriy Kovalenko, Olexandr Siora and Anton Andrashov.* V-MODELS OF SAFETY CRITICAL SYSTEM LIFE CYCLE: CLASSIFICATION AND APPLICATION
- *Artem Symonov and Oleksandr Klevtsov.* ABOUT THE PROBLEM OF REGULATORY ACTIVITY FOR COMPUTER SECURITY OF NPP INSTRUMENTATION AND CONTROL SYSTEMS IN UKRAINE
- *Mikhail Yastrebenetsky, Oleksandr Klevtsov, Yurii Rozen and Serhii Trubchaninov.* ELABORATION OF THE SYSTEM OF THE STANDARDS, RELATED TO SAFETY AND SECURITY OF INSTRUMENTATION AND CONTROL SYSTEMS OF UKRAINIAN NUCLEAR POWER PLANTS
- *Eugene Babeshko, Vyacheslav Kharchenko, Kostiantyn Leontiiev, Eugene Ruchkov and Vladimir Sklyar.* RELIABILITY ASSESSMENT OF SAFETY CRITICAL SYSTEM CONSIDERING DIFFERENT COMMUNICATION ARCHITECTURES
- *Vyacheslav Duzhyi, Vyacheslav Kharchenko, Artem Panarin and Dmytro Rusin.* DIVERSITY METRIC EVALUATION CONSIDERING EXTENDED NUREG-7007 DIVERSITY CLASSIFICATION

12.45 – 14.00. *Lunch*

14.00 – 15.45. **Session S3.1/BD2 – Big Data and Data Analysis for dependability (Big Data and Industry)**

Moderators: Prof. Yuriy Kondratenko, Prof. Skarga-Bandurova

- *Natalia Pantieliieva, Sergii Krynytsia, Yulia Zhezherun, Mykhailo Rebryk and Liudmyla Potapenko.* DIGITIZATION OF THE UKRAINIAN ECONOMY: STRATEGIC CHALLENGES AND IMPLEMENTATION TECHNOLOGIES

- *Oleksii Chmara, Olena Golembowska and Vyacheslav Kharchenko*. MODEL AND SOFTWARE FOR TRACKING AND CONTENT ANALYSIS OF MEDIA INFORMATION IN THE INTERNET
- *Maksym Nesterov and Inna Skarga-Bandurova*. TROUBLESHOOTING AND PERFORMANCE METHODOLOGY FOR BUSINESS CRITICAL SYSTEMS
- *Vitaliy Pavlenko, Igor Shostak, Olga Morozova and Mariia Danova*. INFORMATION SUPPORT FOR BUSINESS PROCESSES ON THE VIRTUAL ENTERPRISES WITH THE USE OF MULTI-AGENT TECHNOLOGIES
- *Maksym Mariushko, Ruslan Pashchenko and Artem Nechausov*. CLOUD SYSTEM ARCGIS ONLINE AS A MANAGERIAL DECISION-MAKING TOOL IN AGRICULTURAL PRODUCTION

14.00 – 15.45. **Session S3.2/ES2 – Dependable embedded and programmable systems (Design and implementation)**

Moderators: Prof. *Oleksandr Drozd*, Dr. *Yuliya Tanasyuk*

- *Artem Grekov and Sergey Tyurin*. FAULT TOLERANT ELECTRONIC ENGINE CONTROLLER
- *Yuliya Tanasyuk, Artem Perepelitsyn and Sergey Ostapov*. PARAMETERIZED FPGA-BASED IMPLEMENTATION OF CRYPTOGRAPHIC HASH FUNCTIONS USING CELLULAR AUTOMATA
- *Roman Babakov and Olexander Barkalov*. STRUCTURAL REPRESENTATION OF SYNTHESIS METHODS OF FINITE STATE MACHINE WITH DATAPATH OF TRANSITIONS
- *Oleksandr Barkalov, Larysa Titarenko, Irina Zeleneva and Svitlana Hrushko*. IMPLEMENTING ON THE FPGA OF COMBINED FINITE STATE MACHINE WITH COUNTER
- *Julia Drozd, Oleksandr Drozd, Valeria Nikul and Julian Sulima*. FPGA IMPLEMENTATION OF VERTICAL ADDITION WITH A BITWISE PIPELINING OF CALCULATIONS

14.00 – 15.45. **Session S3.3/TI3 – Telecommunications, Image and Signal Processing (Signal processing and monitoring)**

Moderators: Prof. *Vladimir Lukin*, Prof. *Volodymyr Panomaryov*

- *Petro Nevodovskyi, Anatolii Vidmachenko, Oleksandr Morozhenko, Orest Ivakhiv, Oleksandr Zbrutskyi and Mykhailo Geraimchuk*. METHODOLOGY OF RELIABILITY STRATOSPHERIC AEROSOL OF THE EARTH'S ATMOSPHERE OBSERVATIONS
- *Volodymyr Kazymyr, Ruslan Zarovsky, Andrey Radchenko, Denis Yurchenko and Alexander Magdebur*. INTELLIGENT SYSTEM FOR RELIABLE MONITORING AND CONTROLLING OF AUTOMOBILE TRAFFIC
- *Yulia Batayeva, Vladimir Kirichenko, Vladimir Kulbashevskiy and Victor Sergeev*. EVALUATION OF VASCULAR TONE ENDOTHELIUM REGULATION
- *Vyacheslav Shulgin and Oleh Viunyskyi*. SPATIO-TEMPORAL SIGNAL PROCESSING FOR FETUS AND MOTHER STATE MONITORING DURING PREGNANCY
- *Hanna Ukhina and Valeriy Sytnikov*. DESIGN THE NPP TECHNOLOGICAL PROCESSES AUTOMATED CONTROL SYSTEMS' ADJUSTABLE FREQUENCY-DEPENDENT COMPONENTS

14.00 – 15.45. **Session S3.4/CI2 – Critical infrastructure and I&C safety and security (Healthcare and industry safety)**

Moderators: DrS. *Yevhen Brezhniev*, Dr. *Herman Fesenko*

- *Yuriy Ponochovniy, Evhen Bulba, Alina Yanko and Egor Hozbenko.* INFLUENCE OF DIAGNOSTICS ERRORS ON SAFETY: INDICATORS AND REQUIREMENTS
- *Anastasiia Strielkina, Vyacheslav Kharchenko and Dmytro Uzun.* AVAILABILITY MODELS FOR HEALTHCARE IOT SYSTEMS: CLASSIFICATION AND RESEARCH CONSIDERING ATTACKS ON VULNERABILITIES
- *Alina Fedoseeva and David Demidenko.* THE AUTOMATION OF THE TECHNOLOGICAL PROCESSES IN THE MANUFACTURING INTERNET OF THINGS CONTEXT FOR THE PHARMACEUTICAL ENTERPRISES
- *Anastasiia Strielkina, Oleg Illiashenko, Marina Zhydenko and Dmytro Uzun.* CYBERSECURITY OF HEALTHCARE IOT-BASED SYSTEMS: REGULATION AND CASE-ORIENTED ASSESSMENT
- *Serhiy Shcherbovskykh, Krzysztof Kozłowski and Dariusz Pazderski.* EVALUATION OF INTEGRAL ANTI-WINDUP FEEDBACK COEFFICIENT FOR PI REGULATOR

15.45 – 16.15. *Coffee-break*

16.15 – 18.00. **Session S4.1/BD3 – Big Data and Data Analysis (Optimization of Big Data Processes)**

Moderators: Prof. Yuriy Kondratenko, Prof. Skarga-Bandurova

- *Daria Pavlova, Anna Zavolodko, Ivan Obod, Iryna Svyd, Oleksandr Maltsev and Liliia Saikivska.* OPTIMIZING DATA PROCESSING IN INFORMATION NETWORKS OF AIRSPACE SURVEILLANCE SYSTEMS
- *Alexander Tymochko, Sergey Dudenko, Oleg Bodiak and Alexander Perepelitsa.* MANDATORY RESOURCE ACCESS CONTROL BASED ON A REACHABILITY MATRIX IN STORAGE AREA NETWORKS
- *Ivan Lobachev, Roman Maleryk, Svitlana Antoshchuk, Dennis Filiahin and Mykhaylo Lobachev.* INTEGRATION OF NEURAL NETWORKS INTO SMART SENSOR NETWORKS
- *Bo Jiang and Xinjun Du.* PERSONALIZED TRAVEL ROUTE RECOMMENDATION WITH SKYLINE QUERY

16.15 – 18.00. **Session S4.2 /SW50 – Round Table (will be further elaborated)**

16.15 – 18.00. **Session S4.3/TI4 – Telecommunications, Image and Signal Processing (Telecommunication systems and technologies)**

Moderators: Prof. Vladimir Lukin, Prof. Volodymyr Panomaryov

- *Dmytro Salnykov.* SECURITY ANALYSIS OF WIRELESS COMMUNICATION SYSTEMS OF THE MILLIMETER WAVES BAND
- *Serhii Kozelkov, Oleksandr Shulha, Oleksandr Shefer and Dmytro Neliuba.* METHOD OF RATIONAL SATELLITE TELECOMMUNICATIONS INTERFERENCE IMPROVEMENT
- *Yana Kremenetskaya, Sergey Markov and Svetlana Morozova.* APPLICATION OF HYBRID MILLIMETRE WAVE TECHNOLOGY FOR GREEN WIRELESS COMMUNICATIONS
- *Anatoliy Makarenko, Nadiia Dovzhenko, Ganna Grynkevych and Viktoriia Zhebka.* ALGORITHM DESIGN FOR DIGITAL PROCESSING OF SIGNALS USING TELECOMMUNICATIONS TECHNOLOGY OFDM
- *Daria Pavlova, Ivan Obod, Anna Zavolodko, Iryna Svyd, Oleksandr Maltsev and Liliia Saikivska.* COMPARATIVE ANALYSIS OF DATA CONSOLIDATION IN SURVEILLANCE NETWORKS

16.15 – 18.00. **Session S4.4 – Workshop on ERASMUS+ ALIOT Project (working in own schedule)**

Moderators:

18.00 – 21.00. *Conference Dinner/Ship*

May 26

9.00 – 10.30. **Plenary session PS3 - Safety, Security and Verification**

Moderators: Prof. Oleksandr Letichevskiy, Anton Andrashov

9.00 – 9.20.

- Anton Andrashov, Head of International Projects Division, Research and Production Corporation Radiy (Kropyvnytskyi, Ukraine). RESEARCH & DEVELOPMENT ACTIVITIES SUPPORTING SAFETY SYSTEMS DESIGN AND CERTIFICATION

9.20 – 9.55.

- Oleksandr Letichevskiy, Glushkov Institute of Cybernetics, National Academy of Sciences of Ukraine (Kyiv, Ukraine). ALGEBRAIC METHODS AND TOOLS FOR CRITICAL SOFTWARE VERIFICATION

9.55 – 10.30.

- Prof. Marco Vieira, University of Coimbra, Department of Informatics Engineering, (Coimbra, Portugal). BENCHMARKING THE SECURITY OF SOFTWARE SYSTEMS: APPROACH AND CHALLENGES

10.30 – 11.00. *Coffee-break*

11.00 – 12.45. **Session S5.1 /SW50 – Round Table (will be further elaborated)**

Moderators: Anton Andrashov, TBA

11.00 – 12.45. **Session S5.2/DW1 – Dependability of Internet, Web and Cloud systems (Fog Computing and Virtualization)**

Moderators: Dr. Oleg Ivanchenko, Artem Perepelitsyn

- Dmitry Korzun, Aleksey Varfolomeyev, Anton Shabaev and Vladimir Kuznetsov. ON DEPENDABILITY OF SMART APPLICATIONS WITHIN EDGE-CENTRIC AND FOG COMPUTING PARADIGMS
- Natalia Axak, Dmytro Rosinskiy, Olesia Barkovska and Igor Novoseltsev. CLOUD-FOG-DEW ARCHITECTURE FOR PERSONALIZED SERVICE-ORIENTED SYSTEMS
- Dmytro Ageyev, Oleg Bondarenko, Tamara Radivilova and Walla Alfroukh. CLASSIFICATION OF EXISTING VIRTUALIZATION METHODS USED IN TELECOMMUNICATION NETWORKS
- Yuriy Vlasov, Oleg Illiashenko, Dmytro Uzun and Oleksandr Haimanov. PROTOTYPING TOOLS FOR IOT SYSTEMS BASED ON VIRTUALIZATION TECHNIQUES

11.00 – 12.45. **Session S5.3/A11 – AI and Formal Systems (Neural networks and expert systems)**

Moderators: Sergii Kavun, Prof. Vitaly Levashenko

- Volodymyr Bychko, Roman Yershov, Liudmyla Plichko, Yurii Gulyi and Maxim Zhydko. AUTOMATION OF CLUSTERING METHODS AT PLANNING LOGISTICS PROCESSES WITH GEOREFERENCED

- *Oleksandr Shkiliuk, Bohdan Volochiy, Leonid Ozirkovskyy and Vyacheslav Kharchenko.* THE SCHEME OF PATHS METHOD BASED TECHNIQUE FOR EVALUATING OF THE BEHAVIOR ALGORITHMS EFFICIENCY
- *Artem Tetskyi, Vyacheslav Kharchenko and Dmytro Uzun.* NEURAL NETWORKS BASED CHOICE OF TOOLS FOR PENETRATION TESTING OF WEB APPLICATIONS
- *Vitaliy Lytvynov, Nikolai Stoyanov and Igor Skiter.* SYNTHESIS OF IMMUNE AND NEURAL NETWORK ALGORITHMS IN SYSTEMS OF DETECTION OF NON-STANDARD BEHAVIOUR OF INFORMATION NETWORKS
- *Petro Pavlenko, Tavrov Dan, Volodymyr Temnikov, Sergiy Zavgorodniy and Andrii Temnikov.* THE METHOD OF EXPERT EVALUATION OF AIRPORTS AVIATION SECURITY USING PERCEPTUAL CALCULATIONS

11.00 – 12.45. **Session S5.4/CSI – Advanced Methods of Cyber Security and Cryptography (Encoding and cryptography)**

Moderators: Prof. Valeriy Hlukhov, Mikhail Tsuranov

- *Vladimir Pevnev.* INVESTIGATION OF THE ALGORITHM FOR DETERMINING THE PRIMALITY OF NUMBERS
- *Mikhail Tsuranov, Vladimir Pevnev and Anton Zhmyrov.* NOISE-IMMUNE ENCODING: THE ASPECTS OF CYBERSECURITY ASSURANCE
- *Oleksii Borysenko, Svitlana Matsenko, Olha Berezhma and Oleksii Horiachev.* DECODING DEVICE OF FIBONACCI CODES IN INFORMATION SYSTEMS
- *Oleksii Borysenko, Svitlana Matsenko, Oleksii Horiachev and Anatolii Novhorodtsev.* HIGH-SPEED COUNTER BASED ON THE MINIMUM FORM OF THE FIBONACCI CODE
- *Valeriy Hlukhov, Mohammed Rahma and Ivan Zholubak.* DEVICES FOR MULTIPLICATIVE INVERSE CALCULATION IN BINARY GALOIS FIELDS

12.45 – 14.00. *Lunch*

14.00 – 15.45. **Session S6.1/IT1 – IoT and Smart Systems (IoT evaluation and implementation)**

Moderators: Prof. Andrzej Rucinski, Dr Maryna Kolisnyk

- *Jean Pierre Nzabahimana.* ANALYSIS OF SECURITY AND PRIVACY CHALLENGES IN INTERNET OF THINGS
- *Yuriy Kondratenko, Galyna Kondratenko and Ievgen Sidenko.* MULTI-CRITERIA DECISION MAKING FOR SELECTING A RATIONAL IOT PLATFORM
- *Ivan Medvedev, Oleg Illiashenko, Dmytro Uzun and Anastasiia Strielkina.* IOT SOLUTIONS FOR HEALTH MONITORING: ANALYSIS AND CASE STUDY
- *Maryna Kolisnyk, Vyacheslav Kharchenko and Iryna Piskachova.* THE RESEARCH OF THE MODEL OF SMART OFFICE AVAILABILITY CONSIDERING PATCHES ON THE ROUTER FIREWALL SOFTWARE
- *Halyna Klym, Roman Dunets, Ivan Horbatyi and Roman Diachok.* SECURITY SUBSYSTEM AND SMART HOME MANAGEMENT SYSTEM

14.00 – 15.45. **Session S6.2/DW2 – Dependability of Internet, Web and Cloud systems (Modeling, FPGA as a service and P2P networks)**

Moderators: Dr. Oleg Ivanchenko, Artem Perepelitsyn

- *Oleg Ivanchenko, Vyacheslav Kharchenko and Kyrylo Smoktii*. SEMI-MARKOV'S MODELS FOR AVAILABILITY ASSESSMENT OF AN INFRASTRUCTURE AS A SERVICE CLOUD WITH MULTIPLE POOLS OF PHYSICAL AND VIRTUAL MACHINES
- *Vitaliy Kulanoy, Artem Perepelitsyn and Inna Zarizenko*. METHOD OF DEVELOPMENT AND DEPLOYMENT OF RECONFIGURABLE FPGA-BASED PROJECTS IN CLOUD INFRASTRUCTURE
- *Mykola Kryshchenko, Olga Prila, Volodymyr Kazymyr and Dmytro Sysa*. THE TECHNOLOGY OF RELIABLE TASK EXECUTION IN GRID ENVIRONMENT USING DYNAMIC VIRTUAL IMAGES
- *Naors Y Anad Alsaleem, Maan Y Anad Alsaleem and Riyad Mubarak Abdallah*. MATHEMATICAL MODELS OF PEER TO PEER NETWORKS FOR STREAM IPTV TRANSMISSION
- *Tatiana Solianyuk, Andriy Popov, Julia Bilokin and Kateryna Vasylchenko*. DEVELOPMENT OF THE SYSTEM TO PROVIDE CROSS-BROWSER COMPATIBILITY OF WEB APPLICATIONS

14.00 – 15.45. **Session S6.3/AI2 – AI and Formal Systems (Application AI for security and safety)**

Moderators: Prof. Ah-Lian Kor, Dr. Sergii Lysenko

- *Joakim Kargaard, Tom Drange, Ah-Lian Kor, Hissam Tawfik and Emlyn Butterfield*. DEFENDING IT SYSTEMS AGAINST INTELLIGENT MALWARE
- *Jan Rabcan, Vitaly Levashenko, Elena Zaitseva and Olga Chovancova*. GENERATION OF STRUCTURE FUNCTION BASED ON AMBIGUOUS AND INCOMPLETELY SPECIFIED DATA USING FUZZY RANDOM FOREST
- *Sergii Lysenko, Kira Bobrovnikova and Oleg Savenko*. A BOTNET DETECTION APPROACH BASED ON THE CLONAL SELECTION ALGORITHM
- *Myroslav Komar, Anatoliy Sachenko and Vladimir Golovko*. COMPRESSION OF NETWORK TRAFFIC PARAMETERS FOR DETECTING CYBER ATTACKS BASED ON DEEP LEARNING
- *Kashif Zia, Kahalifa Albadi, Dinesh Saini and Arshad Muhammad*. CONDITIONS LEADING TOWARDS A MORE ROBUST FOOD SAFETY SYSTEM: THE RESULTS OF AN AGENT-BASED SOCIAL SIMULATION

14.00 – 15.45. **Session S6.4/CS2 – Advanced Methods of Cyber Security and Cryptography (Post quantum cryptography)**

Moderators: Prof. Oleksandr Potii, Prof. Sergii Kavun

- *Ivan Gorbenko, Olena Kachko, Maryna Yesina and Olga Akolzina*. POST-QUANTUM ALGORITHM OF ASYMMETRIC ENCRYPTION AND ITS BASIC PROPERTIES
- *Aleksei Vambol*. THE PROSPECTS FOR GROUP-BASED KNAPSACK CIPHERS IN THE POST-QUANTUM ERA
- *Alexandr Kuznetsov, Maria Lutsenko, Anastasia Kiyan, Tymur Makushenko and Tetiana Kuznetsova*. CODE-BASED KEY ENCAPSULATION MECHANISMS FOR POST-QUANTUM STANDARDIZATION
- *Alexandr Kuznetsov, Anastasia Kiyan, Maria Lutsenko, Iryna Chepurko and Sergii Kavun*. CODE-BASED CRYPTOSYSTEMS FROM NIST PQC
- *Alexandr Kuznetsov, Roman Serhiienko, Dmytro Prokopovych-Tkachenko and Yuri Tarasenko*. ALGEBRAIC IMMUNITY OF SYMMETRIC CIPHERS

15.45 – 16.15. *Coffee-break*

16.15 – 18.00. **Session S6.1/IT2 – IoT and Smart Systems (IoT evaluation and implementation)**

Moderators: Prof. Volodymyr Kazymyr, Dr Heorhii Vorobets

- *Victoriia Turkina and Dmytro Ihnatiev.* INTERVAL EVALUATION OF TRUST AND REPUTATION FOR INTERNET OF THINGS OBJECTS
- *Roman Diachok, Roman Dunets and Halyna Klym.* SYSTEM OF DETECTION AND SCANNING BAR CODES FROM RASPBERRY PI WEB CAMERA
- *Heorhii Vorobets, Olexandr Vorobets and Valentyna Horditsa.* FEATURES OF SYNTHESIS AND STATISTICAL PROPERTIES OF A MODIFIED STREAM ENCODER WITH DYNAMIC KEY CORRECTION
- *Irina Gadolina and Rashid Zaynetdinov.* THE ESTIMATION OF THE SUFFICIENT RANDOM LOADING REALIZATION LENGTH IN THE PROBLEM OF MACHINE PARTS LONGEVITY
- *Vladyslav Vasylenko, Volodymyr Kazymyr, Sergei Zaitsev and Anna Usik.* ADAPTIVE TURBO CODES FOR SAFETY IN WIRELESS INTERNET OF THINGS

16.15 – 18.00. **Session S7.2/DW3 – Dependability of Internet, Web and Cloud systems (Hyperconvergent platforms and virtual machines)**

Moderators: Dr. Oleg Ivanchenko, Artem Perepelitsyn

- *Anatoliy Plakhteyev, Vyacheclav Frolov and Artem Perepelitsyn.* EDGE COMPUTING FOR IOT: AN EDUCATIONAL CASE STUDY
- *Sergiy Shmatkov, Nina Kuchuk, Victoriia Merlak and Artem Nechausov.* RESOURCES REDISTRIBUTION METHOD OF UNIVERSITY E-LEARNING ON THE HYPERCONVERGENT PLATFORM
- *Oleksandr Beznosyk and Kostyantyn Kharchenko.* THE INPUT FILE FORMAT FOR IOT MANAGEMENT SYSTEMS BASED ON A DATA FLOW VIRTUAL MACHINE
- *Vladimir Vorotnikov.* METHOD FOR ESTIMATING LATENCY IN HETEROGENEOUS FRACTAL NETWORKS
- *Tamara Radivilova, Lyudmyla Kirichenko, Maxim Tawalbeh, Vitalii Bulakh and Dmytro Ageyev.* DECRYPTING SSL/TLS TRAFFIC FOR HIDDEN THREATS DETECTION

16.15 – 18.00. **Session S7.3/AI3 – AI and Formal Systems (Model checking and decision making)**

Moderators: Prof. Ah-Lian Kor, Dr. Mykhailo Zmysnyi

- *Bohdan Volochiy, Volodymyr Onishchenko, Mykhailo Zmysnyi and Ihor Kulyk.* ASSESSMENT OF POTENTIAL CAPABILITIES OF GUARD SIGNALING COMPLEX USING SEISMIC SENSORS
- *Patrik Rusnak, Miroslav Kvassay, Andrej Forgac and Elena Zaitseva.* LOGIC DIFFERENTIAL CALCULUS IN TIME-DEPENDENT ANALYSIS OF A PAIR OF SYSTEM COMPONENTS
- *Valeriy Gorbachov, Batiaa Kataeba, Olga Ponomarenko and Yuri Romanenkov.* FORMAL TRANSFORMATIONS OF STRUCTURAL MODELS OF COMPLEX NETWORK SYSTEMS
- *Sergii Chalyi, Ihor Levykin, Aleksandr Petrychenko and Ievgen Bogatov.* CAUSALITY-BASED MODEL CHECKING IN BUSINESS PROCESS MANAGEMENT TASKS
- *Olesia Barkovska, Natalia Axak, Dmytro Rosinskiy and Serhii Liashenko.* APPLICATION OF MYDRIASIS IDENTIFICATION METHODS IN PARENTAL CONTROL SYSTEMS

16.15 – 18.00. **Session S7.4/CS4 – Advanced Methods of Cyber Security and Cryptography (Lightweight cryptography and implementation)**

Moderators: Prof. Oleksandr Potii, Prof. Sergii Kavun

- *Ivan Gorbenko, Alexandr Kuznetsov, Yurii Gorbenko, Anton Alekseychuk and Vlad Tymchenko.* STRUMOK KEYSTREAM GENERATOR
- *Alexandr Kuznetsov, Vladislav Frolenko, Egor Eremin, Olga Zavgorodnia and Dmytro Ivanenko.* RESEARCH OF CROSS-PLATFORM STREAM CIPHERS IMPLEMENTATION
- *Keteryna Isirova and Oleksandr Potii.* DECENTRALIZED PUBLIC KEY INFRASTRUCTURE DEVELOPMENT PRINCIPLES
- *Mariia Rodinko, Roman Oliynykov and Roman Eliseev.* SEARCH FOR ONE-ROUND DIFFERENTIAL CHARACTERISTICS OF LIGHTWEIGHT BLOCK CIPHER CYPRESS-256
- *Nikolay Poluyanenko and Oleksandr Potii.* THE ANALYSIS OF THE APPLICABILITY OF THE DECIMATION AND THE GROUP ADDITION PROPERTY TO M-NLFSR

18.00 – 21.00. *Excursion*

May 27

9.00 – 10.30. **Plenary session PS4 - Signal Processing and Green Computing**

Moderators: Prof. Alex Yakovlev, Prof. Volodymyr Ponomaryov

9.00 – 9.30.

- *Volodymyr Ponomaryov, Instituto Politécnico Nacional, (Mexico City, Mexico).* SPARSE LEARNING APPROACH IN RESTORATION AND FILTERING OF MULTIDIMENSIONAL SIGNALS WITH RAPID HARDWARE IMPLEMENTATION (CPU MULTICORE, GPU, DSP)

9.30 – 10.00.

- *Alex Yakovlev, Newcastle University (United Kingdom).* REAL-POWER COMPUTING

10.00 – 10.30.

- *Inna Skarga-Bandurova, East Ukrainian National University, (Severodonetsk, Ukraine).* PROBLEM OF SYNCHONIZING AND IOT-BASED HEALTH SYSTEMS

10.30 – 11.00. *Coffee-break*

11.00 – 12.45. **Session S8.1/GC – Green Computing and Communication**

Moderators: Prof. Anatoliy Gorbenko, Dr. Mariia Danova

- *Anatoliy Gorbenko, Olga Tarasyuk, Ah-Lian Kor and Vyacheslav Kharchenko.* GREEN ECONOMICS: A ROADMAP TO SUSTAINABLE ICT DEVELOPMENT
- *Igor Shostak, Lina Volobuyeva and Mariia Danova.* ONTOLOGY BASED APPROACH FOR GREEN SOFTWARE ECOSYSTEM FORMALIZATION
- *Igor Shostak, Mariia Danova, Yuri Romanenkov and Yuliia Kuznetsova.* A RETROSPECTIVE ANALYSIS TECHNOLOGY OF THE GREEN SOFTWARE ECOSYSTEMS DEVELOPMENT ON THE PARAMETRIC IDENTIFICATION OF THE BROWN MODEL
- *Sergii Sushko and Alexander Chemeris.* INCREASING AN ENERGY EFFICIENCY OF COMPUTATIONAL SYSTEM BY USING AUTOMATIC SOFTWARE OPTIMIZATION
- *Anton Kamenskih and Sergey Tyurin.* THE SYNTHESIS METHOD FOR FAULT-TOLERANT AND ENERGY-EFFICIENT DIGITAL DEVICES

11.00 – 12.45. **Session S8.2/UI – University-industry cooperation for business and critical domains**

Moderators: Dr. Artem Boyarchuk, Prof. Dmitry Maevsky

- *Ihor Turkin and Yuliya Vykhodets*. SOFTWARE ENGINEERING MASTER'S PROGRAM AND GREEN IT: THE DESIGN OF THE SOFTWARE ENGINEERING SUSTAINABILITY COURSE
- *Artem Boyarchuk, Vyacheslav Kharchenko and Volodymyr Sklyar*. MODELS AND CASES FOR SUSTAINABLE UNIVERSITY-INDUSTRY COOPERATION IN ICT SECTOR
- *Daria Shteinbrekher and Kostiantyn Danko*. EVALUATION OF KNOWLEDGE MANAGEMENT SYSTEM FOR UNIVERSITY-INDUSTRY COOPERATION
- *Vyacheslav Kharchenko, Dmitry Maevsky, Elena Maevskaia, Chris Phillips and Lolita Vystorobska*. EMPLOYERS' REQUIREMENTS-ORIENTED ASSESSMENT OF IOT CURRICULUM: THE PROJECTS CABRIOLET AND ALIOT
- *Olena Kopishynska, Yuriy Utkin, Sergij Voloshko, Igor Sliusar and O. Kartashova*. ALGORITHM OF CREATING OF AN EFFICIENT COOPERATION BETWEEN UNIVERSITIES, BUSINESS COMPANIES AND AGRICULTURE ENTERPRISES DURING STUDYING AND IMPLEMENTATION OF INFORMATION SYSTEMS

11.00 – 12.45. **Session S8.3/AI4 – AI and Formal Systems (Smart education and industry systems)**

Moderators: Prof. Anatolii Kargin , Prof. Vitaly Levashenko

- *Anatolii Kargin, Oleksandr Ivaniuk, Georgii Galych and Artem Panchenko*. POLYGON FOR SMART MACHINE APPLICATION
- *Volodymir Panchenko, Alina Zamula, Sergii Kavun and Ivan Mikheev*. INTELLIGENT MANAGEMENT OF THE ENTERPRISE PERSONNEL SECURITY SYSTEM
- *Mykhailo Poliakov, Heinz-Dietrich Wuttke and Karsten Henke*. COGNITIVE REMOTE LABORATORIES FOR STUDYING THE ELEMENTS OF THE SMART INDUSTRY
- *Nikolay Koshevoy, Viktor Muratov and Elena Kostenko*. APPLICATION OF THE FISH SEARCH ALGORITHM FOR OPTIMIZATION PLANS OF THE FULL FACTOR EXPERIMENT
- *Karelia Pena-Pena and Gonzalo Arce*. IMPLEMENTATION OF QR IMAGES FOR E-COMMERCE SYSTEMS

11.00 – 12.45. **Session S8.4/CS4 – Advanced Methods of Cyber Security and Cryptography (Steganography and authentication)**

Moderators: Prof. Oleksandr Potii, Prof. Sergii Kavun

- *Vladyslav Borodavka and Mikhail Tsuranov*. BIOMETRICS: ANALYSIS AND MULTI-CRITERION SELECTION
- *Galyna Liashenko, Andrii Astrakhantsev and Valeriia Chernikova*. NETWORK STEGANOGRAPHY APPLICATION FOR REMOTE BIOMETRIC USER AUTHENTICATION
- *Alexandr Kuznetsov, Andriy Pushkar'ov, Anastasia Kiyana and Tetiana Kuznetsova*. CODE-BASED ELECTRONIC DIGITAL SIGNATURE
- *Alexandr Kuznetsov, Kyryl Shekhanin, Andrii Kolhatin, Ivan Mikheev and Ivan Bilozetsev*. HIDING DATA IN THE STRUCTURE OF THE FAT FAMILY FILE SYSTEM

12.45 – 14.00. *Lunch*

14.00 – 15.00. **Plenary session PS5 - Mission-Critical Computing (Stakhov). Awards. Closing**

Moderators: Prof. Vyacheslav Kharchenko

14.00 – 14.30

- Prof *Alexey Stakhov*, *FibTech (Fibonacci Technology) Company, Bolton (Ontario, Canada)*.
NUMERAL SYSTEMS WITH IRRATIONAL BASES FOR MISSION-CRITICAL APPLICATIONS

14.30 – 15.00

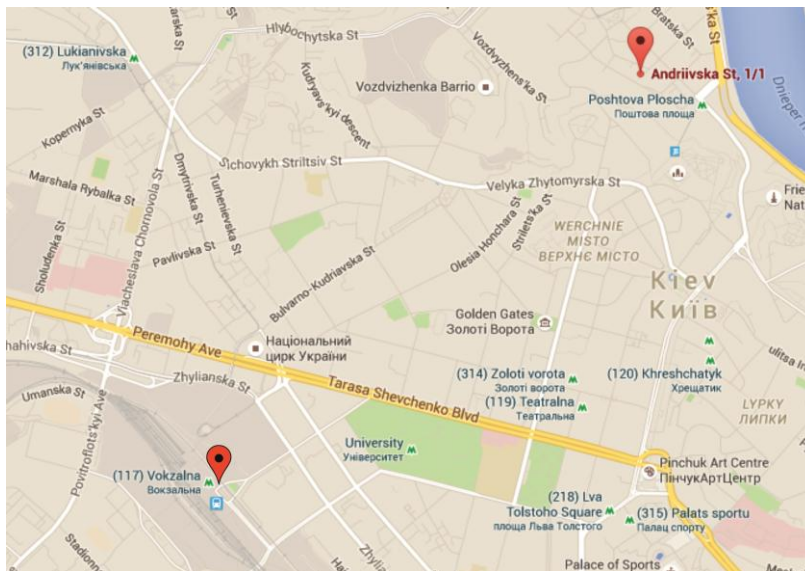
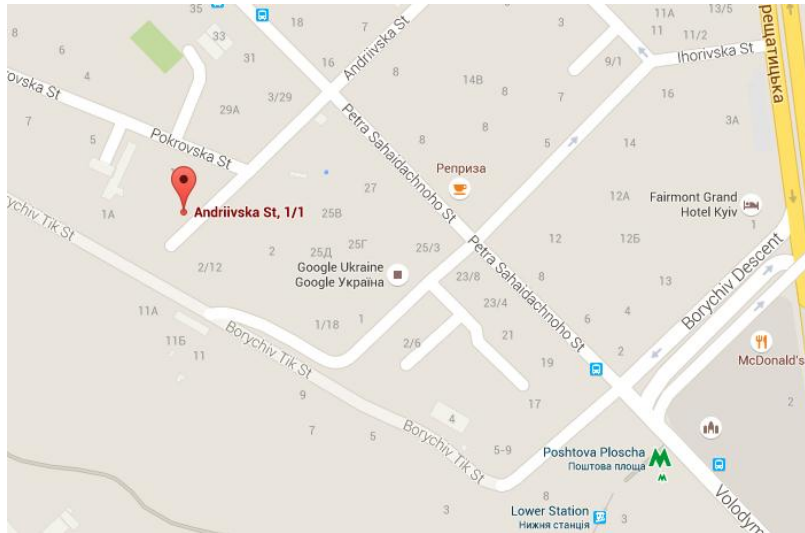
- **Awards. Closing**

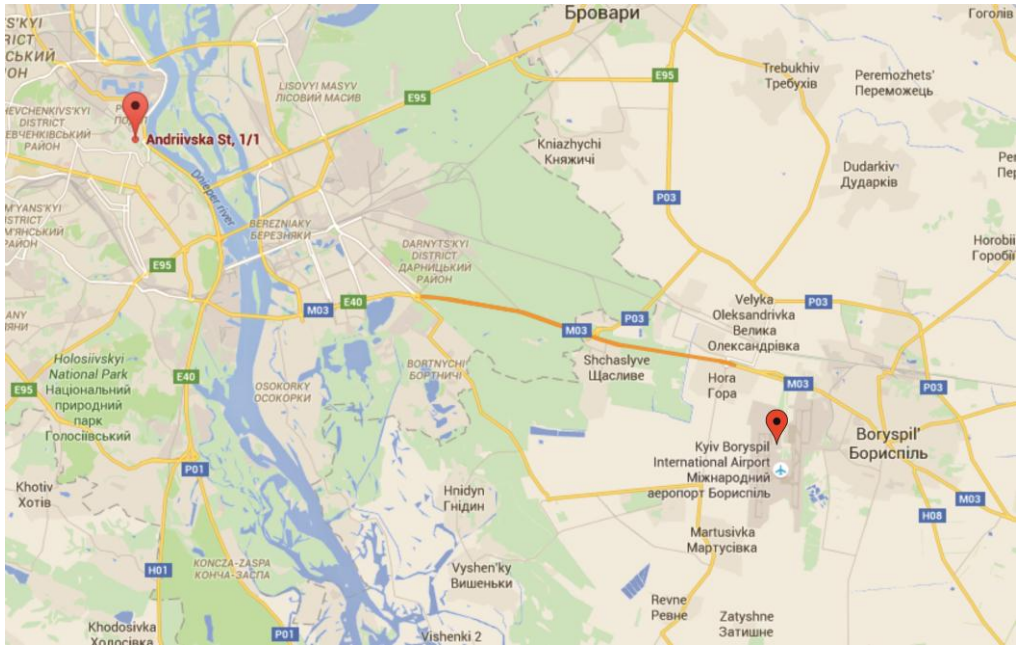
May 28

9.00 – 21.00. **Chernobyl Excursion TBC**

LOCATION

The **IEEE DESSERT'2018** will be held in the capital of Ukraine, Kyiv (May, 24-27), at the University of the Banking, which is placed near Poshtova Ploscha metro station (1/1, Andriivska street, Kyiv).





TRANSPORT

To get to the **University of the Banking of National Bank Of Ukraine** (Kiev) from the airport of your arrival:

1. Kiev Boryspil Airport (KBP). Kiev Boryspil Airport is the home airport for Ukraine International Airlines located near the town of Boryspil and some 30km from the city centre.

a. You can order a taxi at the airport's Arrivals hall. Prices are negotiable, but expect to pay USD 35-45 for a one-way trip between Kiev Boryspil Airport and central Kiev.

b. There is a frequent 24-hour bus service to/from downtown Kiev (Central railway station or Central coach station) available, with journey time of approx 45-60 minutes.

2. International airport Airport Kyiv "Zhulyany" (IEV).

a. You can order a taxi at the airport's Arrivals hall. Prices are negotiable, but expect to pay USD 35-45 for a one-way trip between Kiev Boryspil Airport and central Kiev.

To get from the central railway station to the University of the Banking of National Bank Of Ukraine:

1. From “Vokzalna” (Вокзальна) station of Kiev Metro you should get to “Khreshchatyk” (Хрещатик) station (via “Universytet” (Університет) and “Teatralna” (Театральна) stations of Kiev Metro).

2. Change a Metro line from M1 to M2, “Khreshchatyk” (Хрещатик) to “Maidan Nezalezhnosti” (Майдан Незалежності) station, then get to “Poshtova Ploscha” (Поштова площа) station and exit.

3. Walk to the University of the Banking of National Bank Of Ukraine (approx. 5-7 minutes, see location).

Taxi in Kiev:

+380445006424

+380975013501

+380933214004

+380505013501

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