Ministry of Education and Science of Ukraine Lviv Polytechnic National University



9TH INTERNATIONAL YOUTH SCIENCE FORUM "LITTERIS ET ARTIBUS"

Official Program

November 21–23, 2019 Lviv, Ukraine

ACKNOWLEDGMENTS



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SAMSUNG soft**serve**



Special thanks to Mr. Taras Vervega of SoftServe and Mr. Sukjin Kim of Samsung for their commitment to growing Ukraine's innovation potential.

We would like to thank Samsung R&D

Institute Ukraine, SoftServe, Inc., T.B. Fruit Ukraine and Unicheck Ukraine for their kind and generous support of our event.



SCIENCE FORUM IS ORGANIZED BY:

Lviv Polytechnic National University – LPNU (Ukraine)

Scientific Society of Students, Doctoral Candidates and Young Researchers of LPNU

Students and PhD Students Board and Union of LPNU

Alumni Association of LPNU Warsaw University of Technology (Poland)

PhD Students Board of Warsaw University of Technology (Poland)

Foundation for Young Scientists (Warsaw, Poland) Wroclaw University of Science and Technology (Poland)

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Young Scientists Council at the Ministry of Education and Science of Ukraine

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General Program



THURSDAY, NOVEMBER 21, 2019

09:00 Registration of participants starts

Lviv Polytechnic National University, in front of the Assembly hall of the 1st academic building, 2/4 Karpinskogo str.

10:30–13:00 Ceremonial opening & Plenary session

Lviv Polytechnic National University, assembly hall of the 1st academic building, 2/4 Karpinskogo str.

Speakers:

- *Dr. Olga Radyvonenko*, Head of Laboratory, Samsung R&D Institute Ukraine (Kyiv, Ukraine);
- *Gareth O'Neill*, linguist and expert on Open Science (Amsterdam, the Netherlands);
- Dr. Tony Ross-Hellauer, Leader of Open and Reproducible Research Group at Technische Universität Graz, Senior Researcher at Know-Center (Graz, Austria);
- Dr. Yuriy Khalavka, Assoc. Prof. at Chernivtsi National University, Founder of "Ukrainian Scientists Worldwide" Social Network (Chernivtsi, Ukraine).

13:00–14:00 Lunch break

14.00–15:30 Panel discussion "Open Science, Transparency and Integrity for Modern Academia: Obstacles and Perspectives in Ukraine"

Lviv Polytechnic National University, Room 226 of the main academic building, 12 Bandera str.

Panelists:

- Dr. Yuliia Ovchynnykova, Member of Ukrainian Parliament, Committee on Environmental Policy and Nature Resources Utilization (Kyiv, Ukraine);
- *Gareth O'Neill*, linguist and expert on Open Science (Amsterdam, the Netherlands);
- Dr. Tony Ross-Hellauer, Leader of Open and Reproducible Research Group at Technische Universität Graz, Senior Researcher at Know-Center (Graz, Austria);
- Dr. Artem Artyukhov, member of National Agency for Quality Assurance in Higher Education of Ukraine, Assoc. Prof. at Sumy State University (Sumy, Ukraine);
- *Andrii Sidliarenko*, Head of Unicheck Ukraine (Kyiv, Ukraine)

Moderator – *Dr. Oleksandr Berezko*, Assoc. Prof. at Lviv Polytechnic National University, Eurodoc Open Science Ambassador in Ukraine (Lviv, Ukraine).

15:30–16:00 Coffee break

Lviv Polytechnic National University, canteen of the main academic building, 2nd floor, 12 Bandery str.

16:00 Lviv Polytechnic and Lviv city tour starts

Lviv Polytechnic National University, in front of the assembly hall of main academic building, 12 Bandery str.

FRIDAY, NOVEMBER 22, 2019

All Forum activities of Nov 22 will take place at TechStartUp School, 2 Kolessy Str.

10:00–10:15 Presentation of cooperation opportunities with T.B. Fruit company for students, PhD candidates and early-career researchers by

• *Iryna Barshchovska*, Head of HR and Communications Department at T.B. Fruit Inc.

| 10:15-13:00 | Forum poster and oral sessions |
|-------------|--|
| 10:15-11:00 | Poster sessions of MEMST, CCT and BESD conferences* |
| 11:00-12:00 | Poster sessions of CSE, GAC and EPECS conferences* |
| 12:00-13:00 | Poster sessions of HSS, EM and LPS conferences* |
| | * Please find detailed conferences programs below in their specific sections. |
| 13:00-14:00 | Lunch break |
| 14:00-18:00 | Half-day workshop «Training the trainers on Open Science» by: |
| | Iryna Kuchma, Open Access Programme Manager at EIFL, Open Science training coordinator at OpenAIRE (Vilnius, Lithuania). |
| 17:00 | Informal meeting of Forum participants and certificates delivery. |
| | SATURDAY, NOVEMBER 23, 2019 |
| 12:00-14:00 | Round table on summarizing the forum Location TBA |

11th INTERNATIONAL ACADEMIC CONFERENCE "COMPUTER SCIENCE & ENGINEERING" (CSE-2019)



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6th INTERNATIONAL ACADEMIC CONFERENCE "LAW AND PSYCHOLOGY" (LPS-2019)



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FORUM POSTER AND ORAL SESSIONS

COMPUTER SCIENCE & ENGINEERING

- Botchkaryov A. Decentralized Control of Adaptive Measuring and Computing Processes

 Based on the Concept of Balance
- Auzinger W., Stolyarchuk R., Stoliarchuk R. Strongly Damped Stiff Oscillator Under External Force: a Case Study
- Polishchuk D., Polishchuk O. Centrality Measures in Flow Models of Complex Network Systems
- Levitski V., Klym H. Specialized System to Determining the Level of Radiation Background Voronchuk O., Klym H. Specialized System to Determining Position of a Person Body in the Virtual World
- Kupin A., Kuznetsov D., Muzyka I., Kumchenko Yu. Structure of Intellectual System for Optimize Self-consumption of Energy Produced by Solar Panels in Microgrid
- Stets Yu., Marusenkova T. The Module for Prescribing Motion Scenarios in Hardwaresoftware Tools for Inertial Sensors Assessment
- Baskonus H. M., Kumar A., Ercan M., Kayan M. Dark Solitons to the (2+1)-dimensional Nonlinear Electrical Transmission Line Equation
- Belej O. Developing a Comprehensive Internet Security System
- Masoomzadeh M., Memariani A., Niroumand H., Pedram M. M., Mozafari S. P. A Systematic Literature Review-manual and Intelligent Methods for Reducing Traffic Iam
- Domina M., Bilenko V., Hlukhov V. Validation of Implementation Kalyna Block Cipher With the Help of Test Examples
- Erdogan F., Sakar M. G., Saldur O. Fitted Difference Schemes for Delay Convection-diffusion Problems With Small Parameter
- Gizun A., Hriha V., Blidar A., Zakharchuk O. Information Interference of Russia in the Election Process in Ukraine in 2019
- Pstrak K. Pre-corpus Processing of Texts (on the Material of Vasil Shklar's Work «marusia»)
- Lishnievska K., Karamysheva I. Computer-assisted Translation Systems: Peculiarities of Their Usage as Tools for Working on a Linguistic Product

GEODESY, ARCHITECTURE & CONSTRUCTION

- Shylo Ye., Shylo O. Modeling Figure and Orientation of the Earth's Lithosphere Based on Paleo Dem
- Slonov M., Moldovan V., Khamula S., Korobchynskyi M., Mariliv O. A Method for Determining of the Maximum Possible Pixel Format of Object Image Memorizing During Its Photography
- Fatima F., Chauhan R.R., Thakurata A.G. Calligraphy as an Art in Islamic Architecture and Its Significance Today
- Semko P., Gasii G. Concrete Filled Tubular Elements with Dismountable Joints Bearing Capacity Determination

- Zhyrnov P., Sadoviy Yu, Tomchenko O. Methodology for the Territories' Engineering Construction Assessment with Difficult Geological Conditions
- Holubchak K. The Architecture of Spiritual Retreat Centers as the Innovation in Spiritual Sphere
- Vivat A., Nazarchuk N., Bigun M. The Construction of the Solid Model of Sheptytsky's Memorial in Lviv by the Method of Laser Scanning
- Surmai M., Tkach R., Hula V, Kozak R. Glass as a Material of Bearing Columns
- Turchyn B. Adaptation of Educational Buildings and Territory of Lviv Polytechnic National University for People with Limited Mobility According to the Conceptual Principles of Universal Design

ELECTRIC POWER ENGINEERING AND CONTROL SYSTEMS

- Rymar T., Ivashchenko M. Research of Heat Exchange and Hydrodynamic Characteristic of Unified Package of Cold Layer of RAH
- Kuzyk R., Biletskyi Y. Energy-shaping Control of the Wind-solar Power Plant With a Hybrid Energy Storage System
- Korchak M., Fediv Ye., Sivakova O. Limitation of Internal Overvoltages in Power Static Converters With Fully Controlled Thyristors
- Lys S., Kovalenko N., Yurasova O. Research of Wood Fractional Composition Effect on Gasification Process
- Yakymenko I., Lysenko V. Operating Modes Optimization of Control Systems Using Genetic Algorithm
- Ferensovych R. Operation Modes of Protection System of Current Transformers Against Secondary Overvoltages
- Polishchuk D., Vitaliy Lysenko V., Hachkovska M. Recurrent Analysis of Greenhouse Complex Time Series as a Complicated System
- Olenych Yu., Kuno V., Sveleba S., Katerynchuk I., Kuno I., Karpa I. Features of the Behavior of Lyapunov's Exponents Depending on Symmetry of Thermodynamic Potential, Described by the Lifshitz's Invariant
- Basarab N., Sabat M. Use of Three-zone Tariff and Battery Capacity as Energy Accumulator
- Kulyk M., Kuznetsova M. Analysis of the Possibility of Using Heat Accumulators in the Systems of Regulation of the Daily Load of the Grid

HUMANITIES & SOCIAL SCIENCES

Kulyniak I., Paten I. Factors Affecting the Choice of a Tutor to Prepare for Eit in Ukraine
 Popravkina J., Gilpert V., Nesterova O., Radchuk D., Cheberyachko S. Developing a
 Distance Course of Scientific and Technical Translation

ECONOMICS & MANAGEMENT

- Chyzhykova O. New Profit Allocation Model under BEPS 2.0
- Janiszewski A. Activities of Knowledge Brokers Paths and Themes of Analysis
- Kniaz S., Martyniuk V., Prochorenko V., Rusyn-Hrynyk R. Monitoring of the System Informativity for Evaluating the Economic Efficiency of the Financial Sector Development Strategy
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- Kulyniak I., Demkiv Ya. Shadow Economy Trends in Ukraine Economy and in the Industry of the Regions
- Mirzoieva D. Research on Correlation between Nominal Exchange Rate of Ukrainian Hryvnia and Amount of Remittances under Impact of Volumes of Consumption in Ukraine
- Anhelko I., Lekh I., Pasternak O. Gender Aspects of Employment of the Population of Ukraine in the Modern Economic Conditions
- Bets M., Yaholnyk S. Standardization of Products for the EU Market as a Tool for Foreign Trade Development in Lviv Region
- Golovko L., Lytvyn M., Kasian S. Effective Organization of International Marketing and Logistics within the Sustainable Development Conception
- Halanets V., Dziurakh Yu. Development of Rural Territories in Ukraine in the Context of Decentralization: Key Problems
- Homa I., Martyniuk D. The Current State of Internet Banking in Ukraine: Advantages and Disadvantages
- Ilchuk P., Kots O., Zborivets Yu. Impact of NBU Monetary Policy on Credit and Deposit Rates Dynamics
- Kots O., Bondarenko L., Tsyros D. Prudential Banking Supervision in Ukraine
- Kots O., Ilchuk P., Skoropad S. Growth of Pawnshops Services Market in Ukraine
- Kucheriava M., Oliinyk Ya. Conceptual Approaches to Ensure the Comparability of Nonfinancial Reporting
- Makarenko S., Kaplina Ye., Rybachok S. Current Realities of Enterprise Personnel Training and Development
- Stovpova A. The Accounting Possibilities for Digital Currency
- Synyutka N., Kurylo O., Vasyliuk T. Digital Transformation of Public Procurement in Ukraine
- Yablonko O. Trends and Prospects for Improving of the Public Sector Financial Reporting: the Experience of Foreign Countries

MECHANICAL ENGINEERING, MATERIALS SCIENCE, TRANSPORT

- Kovbasyuk T., Bokufai O., Tsybailo I., Ternovyk I. Structural and Physical Properties of BaO-SiO₂-ZnO Glass-ceramic Coatings Doped with NiB Compound
- Kondratieva L._Determination of Main Characteristics for Patrol SWATH on the Concept Stage
- Chorna N., Shliakhov M. Use of Mathematical Modelling for Development and Creations of an Effective Dsign of a Metal-Hydride Hydrogen Acumulator
- Trembach B., Grin A. Study of the influence of the relationship of the components of exothermic mixture into FCAW-S on the melting indices

CHEMISTRY & CHEMICAL TECHNOLOGY

- Artyukhov A., Krmela J. The Stabilization of the Drop Formation Process in the Vortex Granulator
- Artyukhova N., Krmela J. Improvement of the Convective Drying Efficiency in Devices with Weighted Layer: Multistage Drying in the Shelf Devices
- Melnyk Yu., Suberliak S., Petrina R., Skorokhoda V. Investigation of Swelling and Permeability of Hydrogels Based on Copolymers of 2-hydroxyethyl Methacrylate with Polyvinylpyrrolidone
- Stadnik V., Sozanskyi M., Guminilovych R., Shapoval P., Yatchyshyn Yo. Synthesis of HgSe Films, Deposited from Potassium Rhodanide Aqueous Solution
- Medvedko S., Stambirskyi M., Dmytriv Yu. Synthesis of New Monosubstituted Spiropentanes
- Konovalenko A., Shablykin O., Shablykina O., Moskvina V., Brovarets V., Khilya V. Anticancer Activity Studies of Isoquinoline Derivatives Products of 3 (2-(thien-2-yl)thiazol-4-yl)isocoumarin Recyclization
- Pavliuk A., Orobchuk O., Ivasiv V., Nebesnyi R. Kinetics of Aldol Condensation of Acetic Acid with Formaldehyde on Modified Fumed Silica Supported Catalyst
- Levtrynska Yu., Terziev S. Effect of Solvent Selection on Microwave Assisted Extraction in Solid-Liquid Systems
- Demchuk Yu., Pyshyev S., Shved M., Gunka V., Bratash S., Sidun Iu., Pyryk R. Development of Mathematical Model and Identification of Optimal Conditions to Obtain Phenol-Cresol-Formaldehyde Resin
- Orobchuk O., Konovalova L., Zhuravskyi Ye., Subtelnyi R., Dzinyak B. Effect of Water Quality on Emulsion Oligomerization of C9 Fraction of Oil Refining By-Products
- Dziaman I., Kysil K., Skorokhoda V. The Influence of the Nature of Calcium-Containing Fillers on the Patterns of Obtaining Polymer Composites for Medical Purposes
- Kukushkina K., Moskvina V., Shablykina O., Ishchenko V., Khilya V. Antibacterial Activity Studies of Pyrazole Derivatives – Products of Isoflavones Recyclization
- Petrushyna H., Stepanova O., Shevchenko A., Zhukovska V., Karpenko V., Morenko I.

 Potentiometric Determination of Hydroquinone in Natural Waters
- Hlukhaniuk A., Semenyshyn Ye., Atamanyuk V., Ivashchuk O., Dobrovetska O., Chyzhovych R., Kuzminchuk T., Kovalchuk A. The Research of the Raw Plant Material Oil Extraction with Polar Solvents

LAW & PSYCHOLOGY

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