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## Oral Session

### Saturday, January 26, 2019

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| 10:30-11:00 | **Keynote Speech:** The Student Training System based on the Approaches of Gamification-858<br>**Speaker:** Prof. Nataliya Shakhovska | |
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# Oral Session

## Sunday, January 27, 2019

| Time | Activity | Location |
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| 18:00-20:00 | **Banquet** | |

# Poster Session

## Sunday, January 27, 2019

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| | Zhang Mengya, Zhang Qingying, Wang Ziye, Huang ChenSheng, **Mechanical Experimental Platform Construction Based on BOPPPS Model-951** | |
| | Sergey V. Petoukhov, **Connections between Long Genetic and Literary Texts. The Quantum-Algorithmic Modelling-948** | |
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Ivan V.Stepanyan, **Multidimensional Analysis of Chromosomes Nucleotide Composition-865**

## Monday, January 28, 2019

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| 10:00-16:00 | One-day Tour in Kiev | Kiev |

# Part II    Keynote Speeches

**Keynote Speech:** From Telecommunications to Multimedia ICT

**Speaker:** Prof. Gregor Rozinaj

**Time:** 10:00-10:30, January 26, 2019

**Location:** Conference Hall "Slavianskyiy",

Hotel LYBID

**Abstract.** Human desire to see, hear and feel something what is distant and far away and to transfer the life around us to far distance is a main inspiration for Telecommunications. For more than 100 years, low quality voice transmission (phone) extended with very low speed text transmission (fax) was the only possibility for distant information transfer. Multimedia communication is a new but already common period in Telecommunications. In spite the fact, that technology industry offers high speed communications channels, an amount of transferred data is so huge, that transfer optimization, adaptive multimedia content delivery, recommendation engine, user experience are very important keywords to fulfill user requirements for information retrieval. Telereality or visualization of distant reality seems to be a new milestone in telecommunications.

## Biography

**Gregor Rozinaj** is a Professor at the Faculty of Electrical Engineering and Information Technologies, Slovak University of Technology in Bratislava, currently he is a director of the Institute for Multimedia ICT, FEI STU. He published approx. 150 papers in scientific journals and international conferences. He is author of 4 patents, 3 of them worldwide. His scientific school consists of 15 successfully finished PhD students, more than 120 MSc students. He has served as principal investigator on more than 20 research projects, among them Horizon2020/FP7 projects. His research interest is oriented to multimedia processing, optimization techniques, fast algorithms, HCI. Previously he worked at the University of Stuttgart, Germany and Alcatel Research Centre in Stuttgart, Germany.

**Keynote Speech:** The Student Training System based on the Approaches of Gamification

**Speaker:** Prof. Nataliya Shakhovska

**Time:** 10:30-11:00, January 26, 2019

**Location:** Conference Hall "Slavianskyiy", Hotel LYBID

**Abstract.** The paper discusses a virtual computer game laboratory named SAUDAI as an innovative method of teaching IT students that will encourage them to learn and generate students' interest in learning and research. The system is designed to provide students with convenient environment for development and testing of ar-tificial intelligence and motivate students to research, develop, and deepen their knowledge of artificial intelligence, theory of algorithms and decision support systems. The essence of this work is gamification of studying information tech-nology, specifically, the development of a system that allows the user to develop a software solution that can act as a player in a number of computer games. While developing artificial intelligence for each game, the student acquires knowledge of relevant information technology, each game system set up so that the student can acquire and use the skills on the specific topic.

## Biography

**Nataliya Shakhovska,**
Doctor of Technical Sciences, professor,
Lviv Polytechnic National University, Lviv, Ukraine
E-mail: nataliya.b.shakhovska@lpnu.ua

**Professional career**
June 2018 - the head of artificial intelligence department, Lviv Polytechnic National University
October 2015 – professor in Institute of Informatocs i Mechatronics, Wyższa Szkoła Gospodarki w Bydgoszczy
December 2014 - full professor
September 2013 - Professor in Information Systems and Networks Department, dean of Institute of computer scienses and information technologies, Lviv Polytechnic National University
October 2012 - doctoral thesis "Dataspace organization in complex information systems"
2007 - 2013 - Assoc. professor of Information Systems and Networks Department
2007 - Candidate thesis "Datawarehouses Modeling with uncertain based relational approach"
2001 - 2007 - assistant of Information Systems and Networks Department, Lviv Polytechnic National University

**Education**

1995 - 2000 - Master's degree in Intelligent Decision Support Systems in Department of Information Systems and Networks of Lviv Polytechnic National University.

**Professional skills**

Technical Leader of several information systems embedded in Lviv Polytechnic and other corporations in Ukraine.

Supervises of doctoral students (PhD level) (7 theses were defended).

Lector in theory of algorithms, data warehouse and relational database, artificial intelligence, big data mining.

**Participant International grants and programs:**

Won in I4MS call (Hub-laboratory Internet of things (HULIT)),

Prepared 3 proposals in Horizon2020, ICT - Research and Innovation actions,

Participant of Erasmus+ academic mobility program (Le Man, France from 19/04/16 to 30/04/16)

**Current research interests:**

Big data, Database and datawarehouse integration, artificial intelligence, distributed systems, integrated systems and dataspaces.

She has published more than 200 scientific papers, 5 monographs, 5 textbooks.

Member of editorial boards of seven scientific journals.

Breastplate "Excellence in Education of Ukraine"

Grant of Parliament of Ukraine for supporting scientific research for the young scientists in 2013 and 2014 yy.

Information about citations is available in

https://scholar.google.com.ua/citations?user=GfRgzs4AAAAJ&hl=en,

http://www.scopus.com/authid/detail.url?authorId=42962320400,

http://orcid.org/0000-0002-6875-8534

Detailed information can be found on:

https://ua.linkedin.com/pub/natalya-shahovska/20/77a/696

**Keynote Speech**: Quantum Biology and Hidden Rules of Probabilities

in Long Genetic and Literary Texts

**Speaker:** Prof. Sergey V. Petoukhov

**Time:** 9:00-9:30, January 27, 2019

**Location:** Conference Hall "Galitskyi",

Hotel LYBID

**Abstract**. In modern science, study of biological phenomena from the standpoint of quantum mechanics and quantum informatics are conducted by many authors. In historically the first work on quantum biology in 1932 P. Jordan, who was one of creators of quantum mechanics, claimed that «life's missing laws were the rules of chance and probability (the indeterminism) of the quantum world that were somehow scaled up inside living organisms». It is these rules of chance and probability, postulated by Jordan, that we are looking for in our studies of the probabilistic characteristics of long DNA sequences of hydrogen bonds and nitrogenous bases. The lecture describes some of our results in thus direction.

A special attention is devoted to the rules of probabilities in DNA sequences of hydrogen bonds 3 and 2 between complementary pairs of DNA nitrogenous bases «cytosine-guanine» and «adenine-thymine». Formalisms of quantum informatics are used in modeling some of these results.

Modern science is discovering more and more that genetic inheritance significantly determines the peculiarities of a person's life. In particular, leading experts on structural linguistics believe for a long time already that languages of human dialogue are continuation of genetic language or, anyhow, are closely connected with it, confirming the idea of information commonality of organisms. The lecture concerns the theme about a connection of linguistic languages with the genetic language. It describes results of our comparative study of long Russian literary texts (novels by L.Tolstoy, F.Dostoevsky, A.Pushkin, etc.) and long sequences of hydrogen bonds in double helixes of DNA of different organisms. In addition, questions of biological archetypes and biological fractals are discussed briefly.

## Biography

**Sergey V. Petoukhov,**
Prof., Dr. Sci. (Mechanical Engineering Research Institute, Russian Academy of Sciences, Moscow, Russia)

Current employments: Head of Laboratory of biomechanical systems research in Mechanical Engineering Research Institute of the Russian Academy of Sciences; Chief researcher of the "Center of interdisciplinary researches of musical creativity" of the Moscow State Conservatory

by P.I. Tchaikovsky; Editor-in-Chief of "International Journal of Mathematical Sciences and Computing" (Hong Kong).

Selected honors and awards: Laureate of the State prize of the USSR; Academician of the Academy of Quality Problems (Russia, from 2000); Grand Doctor of Philosophy, Full Professor (The European Academy of Informatization, Belgium, 2004); the Chinese government has included S.V. Petoukhov in the «List of Outstanding Scientists in the World» in 2012; Chairman of Advisory Board of «International Symmetry Association», Budapest, Hungary, from 2003 till now; Honorary chairman of Board Directors of «International Society of Symmetry in Bioinformatics», USA, 2005; co-leader of long-term scientific cooperation between Russian and Hungarian Academies of Sciences in the theme «Non-linear models and symmetrological analysis in biomechanics, bioinformatics and theory of self-organizing systems»; Scientific supervisor and main contractor for competitive state contracts on bioinformatics in 2009-2011; Vice-Chair of the International Advisory Board Directors of the Research Association of Modern Education and Computer Science (Hong Kong) from 2016; Vice-President of the International Society of Natural Medicine (Slovakia); scholarship for scientific internship in Germany from the German Academic Exchange Service (DAAD, 2017).

See additional information at http://petoukhov.com/.

**Keynote Speech**: Method of Distributed Two-level Storage System

Management in a Data Center

**Speaker:** Prof. Eduard Zharikov

**Time:** 9:30-10:00, January 27, 2019

**Location:** Conference Hall "Galitskyi",

Hotel LYBID

**Abstract**. Modern applications in cloud computing, internet of things and machine learning are I/O intensive. They use data storage systems as the main resource of a data center. The advent of new storage technologies such as flash storage, non-volatile memory express, ethernet storage fabric, and storage class memory makes it possible to increase the performance of I/O operations by integrating devices with different performance within the data storage system by utilizing the storage-tiering approach.

As storage systems grow in size and complexity, they are increasingly encounter with disk failures. That may lead to data loss and service downtime. In order to ensure fault tolerance and to prevent service downtime, it is necessary to provide the data replication management using storage nodes depending on the number of I/O requests and the free space. As modern hybrid IT infrastructures are based on hyperconverged systems, the need for development of new methods and models for storage management in order to ensure high performance of I/O operations, high availability and fault tolerance becomes more urgent.

To solve the problem caused by I/O bottlenecks without significant loss of capacity while maintaining low cost, data migration between the fast tier storage devices and the slow tier storage devices becomes a common approach. Tiered storage is also a promising trend for next generation of distributed storage and processing systems based on hyperconverged infrastructure. When partitioning a storage system by two levels, a problem arises to manage data migrations between levels. In that case, virtual machines and containers serve the data at the fastest storage media. Therefore, the management of data storage systems in virtualized and consolidated environments is an important scientific and practical problem.

## Biography

**Eduard Zharikov,** Ph.D., Cand.Tech.Sci. (1999), is Associate Professor at the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute". He has finished doctorate program of Igor Sikorsky Kyiv Polytechnic Institute in 2018. His experience in scientific and pedagogical work is over 25 years. He has authored more than 120 research papers in Ukrainian and international scientific journals. He is a reviewer of Elsevier journals and a program committee member of international scientific conferences. He has been working as Associate Professor at the Volodymyr Dahl East Ukrainian National University (VDU) since 2000. He was a

dean of the Faculty of Computer Sciences (2006-2010), head of the Department of Systems Engineering (2014-2015) and Deputy Director on ICT of the Computer Systems and Information Technology Institute (2013-2015) at VDU. He was awarded the title of "Best in Profession" of VDU in 2005. He has been working as a lecturer at Centre for Postgraduate Studies of Ukrtelecom Joint Stock Company (2002-2009) and at Lugansk Regional Institute of Postgraduate Education (2000-2014). He is founder, Editor-in-Chief and organizer of annually International Scientific Conference on Computer Science for the Information Society (2010-2014). He was a chairman of the jury of the competition in the scientific department of computer engineering and programming of the Luhansk regional branch of the Small Academy of Sciences of Ukraine for many years (1998-2014). He took part in various IT projects as a consultant and designer. He adapts and deploys new information technologies in educational process, supervises over scientific work of students. The main research interests are information technology infrastructure, virtualization, cloud computing, computer networks, systems engineering.

# Part III   Instructions for Presentations

## Oral Presentation

## Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

## Materials Provided by the Presenters:

PowerPoint or PDF files

Durations of each Presentation (Tentatively):

Regular Oral Session: about 10-20 Minutes of Presentation, 5 Minutes of Q&A

Keynote Speech: 30-40 Minutes of Presentation, 10 Minutes of Q&A

# Part V   Hotel Information

## *Conference Hotel - Premier Hotel Lybid*

Address: 1 Peremohy sq., Kyiv 01135, Ukraine



https://lybid-hotel.phnr.com/en/contacts



Premier Hotel Lybid is located in the business and historical center of the capital of Ukraine. The Hotel offers excellent views of Peremohy Square and Shevchenko Boulevard. Ukraina Shopping Mall and National Circus are located near the hotel; aboveground transport junction is convenient. The Botanical Garden and St. Volodymyr's Cathedral are located nearby. The Central Railway Station and Voksalna metro station is a ten minute walk. Comfortable and affordable Kiev hotel offers 274 light and comfortable rooms of different categories.

# Part VI　Contact Us

## Contact Information

**Dr. Z.B. Hu**

The Secretary of ICCSEEA2019.

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Science,

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