#### Ministry of Education and Science of Ukraine

### KHARKOV NATIONAL UNIVERSITY OF RADIO ELECTRONICS

# 24th International Forum of Young Scientists "RADIO ELECTRONICS AND YOUTH IN THE XXI CENTURY"

# Information Message

Kharkov National University of Radio Electronics (KNURE, Ukraine) invites students, post-graduates and young scientists to take part in the work of the 24<sup>th</sup> International Forum of Young Scientists "RADIO ELECTRONICS AND YOUTH IN THE XXI CENTURY" which will be held on **April**, 7 – 9, 2020.

12 thematic conferences will be held in the framework of the Forum (Application 3).

Working languages of the Forum are Ukrainian, Russian, English.

Publication of the **Proceedings** is planned before the opening of the Forum.

TO PARTICIPATE IN THE WORK OF THE FORUM one should present the following documents in the electronic form (E-mail:mref21@nure.ua):

- Electronic version of abstracts of the report formed in accordance with the requirements and the applied example (Appendix 1);
- An application with indication of the scientific direction and the section of the Forum (Appendix 2).
- DEADLINE FOR CAMERA-READY PAPER SUBISSION: February, 21, 2020.
- The authors of the abstracts accepted by the Organizing Committee will be informed about the bank requisites for transfer of the organizing fee till **March**, **15**, **2019** in the Second Information Message.
- Abstracts of the reports failing to meet the requirements will not be accepted.
- The Forum is held on the basis of self-financing at the expense of the participants.
- **The organizing fee** for participation is **10\$** for foreign citizens and includes publication of the program, Proceedings of the Forum and the expenditures connected with meeting the expenses for the Forum organization and holding.
- The Proceedings of the Forum will include abstracts of the reports accepted by the Organizing Committee.

SUBMISSION GUIDELINES

- The volume of abstracts: 2 full pages of A4 size paper, Microsoft World text editor
- Margins: 25 mm.
- The text should be typed 1 spaced: size 14, Times New Roman.
- Summary in English (8 10 lines)
- List of references (up to 5 sources)
- Formulae, symbols, variables in the text should be typed as the Microsoft Equation objects.
- Figures and tables should be clear, compact. Redactors: CorelDraw, Table Editor, Microsoft Excel.
- Texts of the reports are printed in author's version without editing

The order of the material arrangement:

TITLE OF THE REPOR (capital letters, bold, in the middle of the line).

The next line – the author's name, initials (small letters, in the middle of the line).

The next line – the appointment, scientific degree, name, initials of the scientific supervisor (small letters, in the middle of the line).

The next line – the complete title of the organization (small letters, in the middle of the line).

The next line – the mail address, telephone number, e-mail.

The next line – the abstract in English (up to 8 - 10 lines)

The text of the abstracts should be printed in an interval.

EXAMPLE OF THE REPORT PRESENTATION (size – 14 Times New Roman)

Appendix 1

# FEATURES OF MICROPROCESSORS OPERATION AND USE

Ivanov V.A.

Scientific supervisor – Dr. Techn. Sc., Prof. Petrenko V.P.

Kharkov National University of Radio Electronics

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Single electronic devices, such as radio receivers, meters or control units, based on one crystal, have emerged with development of IC technology and circuitry  $\dots$  (8 – 10 lines)

The text of the report abstract...

# APPLICATION FORM FOR PARTICIPATION IN THE YOUTH FORUM:

Appendix 2

- Surname, first name, patronymic of the authors (no more than 3 persons)
- City, institution (full title of the organization), faculty, department, group
- Surname, first name, patronymic, scientific degree, appointment of the scientific supervisor
- Address for correspondence (the city index is necessary),
  - e-mail, Fax, telephone number for contacts (the city code is necessary)
- Title of the scientific conference of the Forum and the section number.

#### SUBJECT CONFERENCES OF THE FORUM

### 1. CONFERENCE "ELECTRONIC, LASER AND BIOTECHNICAL ENGINEERING"

# Section 1. Electronic systems and technologies, including micro and nanoelectronic.

- Electronic devices and systems for receiving and transmitting information.
- Electronic/digital/optical methods and systems for processing signals and images.
- Mathematical, statistical and software modeling of electronic systems, signals and interference, transmission, reception and recording of information in electronic systems.
- Electronic technologies and methods of diagnostics, control and monitoring.
- Modern electronics elemental base.
- Applied programming in electronics.
- Nanoelectronic and nano-optical technologies.
- Electronic systems of energy-saving technologies.
- Physical and mathematical foundations of electronics, micro- and nanoelectronics.
- Innovative teaching methods in the field of electronics, micro and nanoelectronics

#### Section 2. Biomedical engineering

- Biomedical electronic devices, appliances and systems;
- Modeling, processing and analysis of medical and biological information.;
- Bionanotechnologies and biosensors in medicine and ecology;
- Biomechanics and rehabilitation engineering.

#### Section 3. Photonics, laser and optoelectronic engineering

- Physics principles of photonics;
- Laser systems and optoelecronic devices including those ones based on photon crystals;
- Optical computers elemental base;
- Development of principles of 3D dynamic holograms creation;
- Development of optical systems using microwave devices;
- Ouantum informatics.
- Quantum principles and devices of information-measuring systems.

# 2. CONFERENCE "AUTOMATED SYSTEMS AND COMUTERIZED TECHNOLOGIES OF RADIO ELECTRONIC INSTRUMENT MAKING"

# Section 1. Modern technologies and means for automation of radio electronic instrument making production

- High technologies and automation of production in radio electronic instrument making;
- Intelligent technological processes and production;
- Flexible computerized, robotic and mechatronic systems;
- Microsystems technique and technology;
- The life cycle of electronic equipment: planning, organizational and design and technological support/PLM systems;
- Modeling of technological processes in production;
- CAD/CAM/CAE and CAD systems.
- Decision making and logistic support for production.
- Industry 4.0 Technology.

# Section 2. REA of embedded systems

- Principles and methods of creation of intelligent equipment technical means;
- Microcontrollers in intelligent appliances and automation means;
- Software-hardware interfaces for electronic apparatus control through computer networks;
- Provision of electronic apparatus security;
- Built-in avionics systems
- Household and municipal electronic technique;
- Integration of REA of different principles of functioning into intelligent complexes.

#### Section 3. Physical fundamentals of processes in radio electronics, computer science, and instrumentation

- Thermal methods and means for nondestructive control of REA and production objects;
- Acoustic and electromagnetic methods and devices for nondestructive control of manufactured goods;
- Physical fundamentals of quantum electronics;
- Modern methods for geospace investigation;
- Physical principles of optical recording and processing of information;
- Physical modeling of processes in radio electronics.

#### Section 4. Security systems for technological and production processes

- Simulation modeling of safety systems under the influence of harmful and dangerous factors of the production environment and labor process.
- Methods and means for protection against harmful production factors;
- Ecological safety of industrial objects;
- Assessment and definition of risk in the performance of production activities.
- Methods and means for monitoring of natural environment;
- Educational information-modeling systems in ecology, life safety and civil security;
- Automated systems for control and provision of safety of production processes and objects.

#### 3. CONFERENCE "INFORMATION RADIO TECHNOLOGIES AND TECHNICAL DATA PROTECTION"

# Section 1. Electrodynamic systems, radio engineering devices and means of radio communication.

- Scattering of electromagnetic waves in different environments.
- Mathematical modeling of electrodynamic systems.
- Theory and technology of antennas and antenna elements.
- Theory and technology of microwave range.
- Nanoelectronics and nanoantennas.
- Transmitting-receiving devices and elemental base.
- Measurement and control of signal and circuit parameters.
- Electromagnetic compatibility of radio electronic means.
- Means of wireless radio communication.

#### Section 2. Information radio electronic systems

- Fundamental problems of radio location, radio navigation and radio vision, and radio control;
- Methods for signals and images processing;
- Multimedia technology;
- Modern radio location, radio navigation and radio control systems;
- Technologies of countermeasures against small-dimension unmanned aerial vehicles;
- Passive radio location of radio emissions:
- Problems of counter action of radar detection of objects;
- Systems of radio electronic reconnaissance and radio electronic countermeasures;
- Distance sounding (diagnostics) of objects, earth surface and atmosphere;
- Perspective television system, television of network protocol;
- Micro and nano electromechanical systems;
- Acoustic radio electronic systems;
- Space radio electronic systems;
- Broadband chaotic signals in radio electronic systems.

#### Section 3. Technical protection of information

- Theory and methodology of engineering-technical protection of information;
- Software-hardware means for information protection;
- Radio electronic reconnaissance and radio electronic suppression;
- Radar systems of security;
- Modern technologies and solutions for provision of information-telecommunication systems security.`

#### Section 4. Devices and technologies of information and communication systems

- Methods and principles of designing embedded information-communication systems;
- Modern software-hardware platforms of embedded systems;
- Technologies and means for developing embedded systems based on microcontrollers and programmable logical matrices;
- Mobile radio electronic devices;
- Sensors and sensor networks;
- ☐ Internet technologies of things (IoT)
- Digital devices for multimedia information processing and transmitting;
- Radio electronic devices for medical informatics;
- Engineering of renewable energy sources.

#### Section 5. Systems and technology devices on microprocessors, microcontrollers and PLIC.

- Modeling, processing and synthesis of digital signals.
- Designing of devices on microprocessors, microcontrollers and PLIC.
- HDL-hardware description languages.
- The problem of real-time microprocessor systems development.
- Industrial Internet of Things (IoT).
- CAD hardware.

# 4. CONFERENCE "PROSPECTS OF TELECOMMUNICATION AND INFORMATION-MEASUREMENT TECHNOLOGIES DEVELOPMENT"

#### Section 1. Info-telecommunications problems

- General systems problems of info-telecommunications;
- Electromagnetic compatibility;
- Management, adaptation, self-organization in info-communication systems;
- Mobile info-communication systems and wireless 3G and 4G technologies;
- Software-configured SDN networks;
- Telecommunication systems with SDR technology;
- Optical wired and wireless telecommunication systems;
- Wireless telecommunication systems with MIMO technology;
- Nebulous computing and the Internet of things;
- \( \text{ Modern methods of digital signal processing in telecommunication systems;} \)
- Problems of integration and convergence of technologies in telecommunications;
- Logistics in telecommunication systems;
- Design of telecommunication systems and networks.

# Section 2. Information security management

- Practical basis for information security provision;
- Theory of information security risks.
- Technologies and methods for information security control.
- Network security, systems for identifying and countering attacks, network resiliency.
- Information security of software-configured SDN networks.
- Process approaches to the audit of information security management systems.
- Information security of next-generation mobile networks.
- Cybersecurity of nebulous computing and databases.
- Problems and methods of introducing the international standards of information security provision.

#### Section 3. Information-communication technologies

- Conceptual problems of info-communication networks construction;
- Hardware and software for granting info-communication services;
- Multicriteria optimization and mathematical simulation of info-communication networks;
- Processing of information in info-communications;
- Information protection in info-communications;
- Business processes in info-communications;
- Info-communications in the social sphere.

# Section 4. Information-measurement technologies, metrological support, standardization and certification

- Development of elements of the products and services quality systems;
- Development of measurement technique means and their metrological support;
- Methods and algorithms for measurements' results processing;
- Information-measurement technologies;
- Standardization and certification.

#### 5. CONFERENCE "COMPUTER SYSTEMS AND CONTROL NETWORKS AND DATA PROCESSING"

#### Section 1. Physical computing

- Quantum computers;
- Mobile gadgets and laptops;
- Automotive computers;
- Smart sensors and actuators as MEMS;
- Robotics. Drones. 3D-printing;
- Smart brain-user interfaces;
- Security computers;
- Big data centers;
- Mobile technologies;
- Crystal-based systems;
- Crystal-based networks;
- Designing routes:
- Methods and means for verification and testing;
- Standards of test-suited design;
- Equipment description languages;
- Digital systems testing;
- Verification of mathematical models;
- Methods, models, means for testing and diagnostics.

#### Section 2. Virtual Computing

- Cloud computing;
- Fog network computing;
- Mobile computing;
- Service computing;
- Social computing;
- -Automotive computing;
- Internet computing Smart Everything;
- Cyber physical- or Internet of things-computing;
- Big data computing;
- Quantum computing;
- Urgency, tendencies and problems of development of the nebulous services;
- Optimization and support of nebulous systems;
- Problems of internet-integration of nebulous services;
- Solution of the infrastructure problems using "nebulous" calculations;
- Solution of the problems of organization of data storage protection using "nebulous" calculations;
- Solution of the problems of the platform for developing supplements using "nebulous" calculations;
- Application of modern technologies to social networks designing and scaling;
- Types, architecture, platforms of "nebulous" services;
- Economical aspects of "nebulous" approaches to calculations;
- Security of "nebulous" calculations medium.

# Section 3. Protection of information and information resources in ICS

- Normative-legal support of the information security system;
- Methods, mechanisms and means for cryptographic protection of information;
- Infrastructures of the open keys and the system of electronic digital signature (EDS);
- Cryptographic systems synthesis and analysis;
- Synthesis and analysis of cryptographic mechanisms and protocols;
- Antivirus analytics;
- Methods of crypto analysis;
- Methods of "nebulous" calculations security.

# Section 4. Theoretical and applied aspects of intelligent computing

- Intelligent analysis of big data;
- Classification and clustering of objects;
- Intelligent systems for pattern recognition;
- Neural network systems and structures;
- Fuzzy systems and fuzzy neural networks;
- Genetic and evolutionary algorithms for data processing;
- Intelligent immune systems;
- Intelligent agents and multi-agent technologies;
- Hybrid intelligent technologies;
- Methods of artificial intelligence in decision-making and control systems;

#### Section 5. Methods and means of data processing in heterogeneous computer systems.

- □ Software and hardware reconfiguration of heterogeneous components.
- Big-Data. Processing of large amounts of data.
- Highly productive computing.
- Multiservice computer networks.
- Computer graphics and visualization in technical systems.
- Methods for designing and maintaining databases in distributed information systems.
- Organization of network information structures.
- Management and support of decision making in network structures.
- Parallel and distributed software systems and structures. □
- Algorithms and software for Green Technology.
- Simulation of the behavior of irregular and resource-constrained structures.

#### Section 6. Methods and means of computational intelligence.

- Convolutional neural networks.
- Deep machine learning technologies.
- Computational methods and models based on artificial immune systems.
- Clustering, filtering and image recognition.
- Implementation of information processing systems on the RASPBERRY PI platform.
- Multi-agent systems and technologies.

#### 6. CONFERENCE "INFORMATION INTELLIGENT SYSTEMS"

#### Section 1. Modern problems of computational and artificial intelligence

- Hybrid neuron-fuzzy models and systems in the problems of information processing;
- Intelligent analysis of data;
- Evolutionary calculations in Web-, Text- and Genetic-Mining problems;
- Semantic technologies and ontological engineering;
- Intelligent information technologies in knowledge management;
- Intelligent processing and information integration in the distributed Web-systems.

#### Section 2. Information systems and technologies for project and operational management of enterprises and organizations.

- Information systems in management of business-processes of enterprises based on service-oriented architecture;
- Information technologies for monitoring and management of the enterprise business-processes;
- "Nebulous" information technologies in the enterprise management;
- Management of projects of development, introduction and support of information-control systems and information technologies and program products;
- Technologies for designing, administering, monitoring and management of corporative networks;
- Information technologies of data processing in the information systems;
- Methods and means for information transform in the information systems.
- Information technology and systems in medicine and ecology.

### Section 3. Program engineering. Information technologies in learning

- Software design technologies;
- Software development technologies;
- Software quality control;
- Data algorithms and structures;
- Databases;
- Modern information technologies (Web 2.0, SAAS, cloud, parallel programming);
- Distance learning technologies (including mobile learning);
- Computer testing of knowledge;
- Automation of learning process;

- Creation of web-systems of educational nature;
- Creation of interactive laboratory practicum;
- Creation of gaming applications and virtual reality.

# Section 4. Methods and means of decision-making under multicriteria and risk conditions

- Methods for regularization of multi criterion optimization problem. Multifactor estimation of systems;
- Utility theory. Methods of structural-parametric identification of the utility function;
- Expert estimation. Comparator identification method:
- \( \text{ Models and methods of decision-making under conditions of uncertainty of different types.} \)
- Combinatorial decision-making problems. Methods of combinatorial optimization.
- □ Application of models and decision-making methods in information intelligent systems.

# Section 5. Computer technologies in printing

- Technology of printed editions;
- Technology of electronic multimedia editions;
- Automated systems of polygraph production management;
- Computer technologies in digital images processing and color control;
- Descriptive geometry and computer graphics.

#### 7. CONFERENCE "MODERN METHODS OF IMAGE PROCESSING"

# Section 1. Mathematical models and methods for normalization and analysis of multimedia data

- Models and methods for images processing;
- Models and methods for images normalization;
- Analysis of multimedia data.

#### Section 2. Mathematical and computer simulation of big systems

- Analysis of interrelated time series: prediction and control;
- Systems analysis of problems in technical, economical and social systems;
- Stochastic models and methods in problems of management and decision-making;
- Boundary-value problems of mathematical physics and methods of their numerical analysis;
- Methods for risks estimation and control:
- Synergetic models of non-linear dynamics, deterministic chaos, fractal structures;
- Mathematical modeling in photonics.

#### 8. CONFERENCE "HUMANITARIAN ASPECTS OF INFORMATION SOCIETY FORMATION

#### Section 1. Philosophical problems of the information society

- Problem of identity in the information epoch;
- Anthropological problems in the information society formation epoch;
- Socio cultural aspects of the global informatization;
- Mediaculture of the information society;
- Transformation of values in the process of the information society formation;
- Informatization of society as a factor of risky situations;
- Youth under conditions of the society of risks;
- Problems of a person socialization in the virtual space;
- Problems of socialization in the information society;
- Problem of freedom and responsibility in the information medium.

# Section 2. Social-political transformations in the era of informatization and globalization

- Democracy and political regimes in the information epoch;
- Innovation transformations in the information epoch: social-political aspect;
- Information society: prospects and collisions
- Globalization and democratization of the modern world: their interrelation and interdependency;
- Totalitarian threats in the information epoch: essence and ways of their overcoming;
- Socio cultural and legal development of the information society in Ukraine.

# Section 3. Psychological aspects of the information society formation

- Manipulation with consciousness in the information society: methods and mechanisms;
- Psychological aspects of a person adaptation under the information society conditions;
- Psychological-pedagogical problems of modern education;
- Self-presentation in the Internet communicative space;
- Problems of a modern specialist image formation;
- Communicative problems in the informatization epoch.

#### Section 4. Gender problems of modern society

- Gender and information technologies;
- Gender aspects of education under conditions of the information society;
- Family and career under conditions of modern society;
- Modern problems of gender identity.

# 9. CONFERENCE "KNOWLEDGE MANAGEMENT AND CONCURRENT RECONNAISSANCE"

#### Section 1. Management and systematization of knowledge, ontology, business technologies of knowledge consolidation

- Noospheric investigations, methods and technologies for solving complicated non-formalized problems and creation of information society;
- Trans-disciplinary research;
- Modern system analysis, systemology as means of noosphere creating, systemology methods and technologies;

- Classification and systematization of knowledge;
- Ontology, ontological engineering, conceptual and semantic simulation;
- Methods and technologies for knowledge management and knowledge engineering, extraction and acquisition of knowledge;
- Formation of intellectual capital of organizations and the knowledge economy;
- Learning organizations, innovation methods and technologies of learning, community of practice; personal knowledge management:
- Object-oriented simulation, requirements' analysis and control;
- Social communications, intellectualization of information-communication technologies (ICT), social networks and

Internet-technologies in social systems, search optimization, e-learning;

- Cognitive research and artificial intelligence;
- Methods and models for concurrent reconnaissance and stable development;
- Application of knowledge-oriented technologies in information security;
- Corporative culture, motivation and alternations management.

#### Section 2. Organization and modeling of business

- Analysis and simulation of business-processes;
- Management of business-process and business-analytics;
- -Methods and technologies of organization and planning of business;
- Methods of business processes designing, engineering and re-engineering of business;
- Methods and technologies for decision-making support;
- Methods and technologies of political analysis and state management, electronic government;
- New methods and technologies for information management:
- Intelligent analysis of data, storage and data bases;
- Application of methods and technologies of the concurrent reconnaissance and risks management in the information security.

#### Section 3. Social informatics and management

- Social informatics;
- Information technologies in the social systems management;
- Social processes prediction;
- Intelligent systems of management and decision-making in economics and business;
- Methods and technologies for decision support;
- Methods and technologies of political analysis and public administration, e-government;
- Systems analysis and management of complex engineering-economical systems;
- Applied methods of the systems analysis;
- Automated information systems and technologies;
- Mathematical modeling of social, economical and ecological processes;
- Mathematical models in organization systems.

# 10. CONFERENCE "URGENT PROBLEMS OF ECONOMICAL CYBERNETICS AND ECONOMIC SECURITY"

#### **Section 1. Economical cybernetics**

- Economic theory and history of economic thought.
- World economy and international economic relations.
- Economics and national economy management.
- Economics and management of enterprises.
- Development of productive forces and regional economy.
- Problems of ecological and economic development of territories.
- Demography, labor economics, social economics and politics.
- Money, finance and credit.
- Accounting, analysis and audit.
- Statistics
- Modeling of economic processes in infrastructure industries.
- Mathematical methods, models and information technologies in economics.
- Information business and e-commerce.

# Section 2. Financial-economical security management

- Organization and management of the enterprise's financial and economic security system.
- Provision of national security system.
- Organizational and legal support of financial and economic security of business entities.
- Information and analytical support and monitoring of financial and economic security.
- Safely oriented management and personnel reliability assessment methods.
- Corporate conflicts and counteraction to raiding.
- Organization and management of information security with limited access
- Organization and management of property and personal security of the entrepreneur.
- Methods of the model for diagnosing the level of economic security of business structures.

# 11. CONFERENCE "STATE ORGANIZATION OF UKRAINE, LANGUAGE, CULTURE IN THE INFORMATION MILLENNIUM"

#### Section 1. The Ukrainian language since ancient times to the contemporaneity

- The origin and stages of development of the Ukrainian language;
- Lexical, grammatical and stylistic features of professional texts;
- Terminology as linguistic science of terms;
- Formation and development of branch terminological systems;
- Terms and nomenclature units in scientific texts;
- Peculiarities and difficulties of translating scientific and technical texts;
- Stylistics of a scientific text;
- Media text. Features of its functioning;
- Culture of communication in professional activity;
- Techniques and types of rhetoric in professional activity;
- Language etiquette for professional communication;
- History and characteristics of office work;
- Functioning of regional languages in Ukraine;
- Norms of Ukrainian spelling: history and modernity.

## Section 2. Historical, regional, geopolitical aspects of culture

- -The origin and characteristics of the development of world cultures.
- Material and spiritual culture: common and different.
- Archeology as a source of study of ancient cultures and civilizations.
- State and culture: choice of priorities, ways to implement policies in the humanitarian sphere.
- Historical origins and traditions of Ukrainian statehood.
- Achievements and problems of Ukrainian history and culture.
- Ukrainian foreign policy and cultural relations in different historical periods.
- Cultural features of historical and ethnographic regions of Ukraine.
- Features of Ukrainian folk art.
- Ukrainian traditions and customs in the information millennium.
- Outstanding figures of Ukrainian culture.
- Volunteer movement and its significance in modern Ukraine.

# 12. CONFERENCE "LANGUAGE IN A POLICULTURAL WORLD: DEVELOPMENT OF INTERNATIONAL EDUCATION"

#### Section 1. The creative approach of students to mastering the future engineering specialties.

- Use of IT-technologies in industry;
- Distance learning in the educational process;
- Intelligent information technology at the present stage;

### Section 2. Innovations in the modern economy.

- Information technology in the modern economy;
- Economic theory and history of economics;
- Economics in international relations;

# Section 3. The role of medicine and biology in the life of a modern person.

- Biomedical electronic devices for diagnostics;
- Innovations in modern medicine;
- Problems of a balanced diet of modern man;

### Section 4. The need for competence in the socio-legal sphere.

- Psychological aspects of the adaptation of foreigners;
- The essence and ways of overcoming the legal incompetence of foreigners;
- Communicative problems of foreigners in the modern world;

# Section 5. Humanities - the basis of the comprehensive development of the personality.

- Culture speech of foreigners in terms of bilingualism;
- Ways of overcoming language barriers in terms of another country;
- History and culture of countries in a multicultural world.

#### **ORGANIZING COMMITTEE ADDRESS:**

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ORGANIZING COMMITEE