

*National Technical University of Ukraine
"Igor Sikorsky Kyiv Polytechnic Institute"
Radio Engineering Department*



International Scientific and Technical Conference

***Radio Engineering Fields, Signals, Devices and Systems
REFSDS'2019***

CALL FOR PAPERS

November 18–24, 2019
discussion field on conf.rtf.kpi.ua

Dear colleagues!

*Welcome to participate in the International scientific and technical conference "Radioengineering Field, Signals, Devices and Systems" that is conducted on-line with placing the discussion fields on the conference website **conf.rtf.kpi.ua***

The main purpose of the conference is a presentation and discussion of scientific and technological achievements contributing to the revitalization of creative professionals, engaged in research, design, production and exploitation electronic devices and systems, and also exchange of scientific and practical experience.

Tasks of the conference:

- ✓ *creation of the debatable field for approbation scientific, technical and practical results in signals and com-international fields, that are received by specialists;*
- ✓ *information the scientific community about the latest achievements of the indicated questions;*
- ✓ *contribution searching of scientific and practical partnership.*

Working languages: *Ukrainian, Russian and English.*

Materials of the conference (synopses) are placed on the specified site and issued the separate digest, which is sent to the authors by their terms. Authors of the best synopses conference Program Committee may recommend modifying the synopses to be published as articles in the collection of scientific papers "Bulletin of National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute. Series –Radiotechnique. Radioapparatus building". The digest is included into the list of publication which can publish results of the master's and doctoral theses in the field of technical sciences.

IMPORTANT DATES

<i>Date of event</i>	<i>The event</i>
<i>November 1, 2019</i>	<i>Deadline for synopses submission</i>
<i>to the 11th of November, 2019</i>	<i>Confirmation of payment (copy receipt)</i>
<i>to the 17th of November, 2019</i>	<i>Get details of site access</i>
<i>November 19–25, 2019</i>	<i>Period of the conference</i>

CONFERENCE PROGRAM COMMITTEE:

Chairman of Program Committee:

Antypenko R.V. *Doc. of Sci (Technics), professor, dean of the radioengineering department Igor Sikorsky KPI, Ukraine*

Executive secretary (deputy chairman):

Chmel'ov V.O. *Cand. of Sci (Technics), associate professor, Igor Sikorsky KPI, Ukraine*

Program Committee Members:

Bondarenko Y. *PhD, Seattle, USA*

Kuraev A. A. *Doc. of Sci, professor, Minsk, Belarus*

Tomash Dostal *Professor, Prague, Czech Republic*

Dubrovka F.F. *Doc. of Sci (Technics), professor, NTUU "Igor Sikorsky KPI", Ukraine*

Zhuk S.Y. *Doc. of Sci (Technics), professor, NTUU "Igor Sikorsky KPI", Ukraine*

Zinkovsky Y.F. *Doc. of Sci (Technics), professor, NTUU "Igor Sikorsky KPI", Ukraine*

Kartashov V. M. *Doc. of Sci (Technics), professor, Kharkiv National University of Radio Electronics*

Kychak V.M. *Doc. of Sci (Technics), professor, Vinnytsia National Technical University, Ukraine*

Kryzhanivsky V.G. *Doc. of Sci (Technics), professor, Donetsk National University, Ukraine*

Manoylov V.P. *Doc. of Sci (Technics), professor, Zhytomyr National University of Technology, Ukraine*

Martynjuk V. V. *Doc. of Sci (Technics), professor, Khmelnytskyi National University, Ukraine*

Naidenko V.I. *Doc. of Sci (Physics-Mathematics), professor, NTUU "Igor Sikorsky KPI, Ukraine*

Nelin Ye. A. *Doc. of Sci (Technics), professor, Igor Sikorsky KPI, Ukraine*

Prokopenko I. G. *Doc. of Sci (Technics), professor, National Aviation University, Ukraine*

Prudius I. N. *Doc. of Sci (Technics), Professor, National University of Ukraine "Lviv Polytechnic", Ukraine*

Zbynek Raida *Professor, Brno, Czech Republic*

Sovlukov O.S. *Doc. of Sci (Technics), professor, Institute of Control Sciences. Trapeznikov's Russian Academy of Sciences, Russia*

- Chmil V. M.** *Cand. of Sci (Technics), chairman of the board, Private Joint Stock "Scientific – Production Enterprise "Saturn", Kyiv, Ukraine*
- Shaiko-Shaikovskyi O.H.** *Doc. of Sci (Technics), professor, Physical, Technical and Computer Sciences Institute of Yuriy Fedcovich Chernivtsi National University, Ukraine*
- Yanenko O.P.** *Doc. of Sci (Technics), professor, NTUU "Igor Sikorsky KPI", Ukraine*

CONDITIONS OF PARTICIPATION

For participation in the conference you need:

- 1. To the 1th of November, 2019 on an electronic address of the organizing committee rtpsas@kpi.ua (in the subject line indicate the author's name and section number (for example, "Ivanenko_section_5")) send executed in an appropriate way (for details look on the conference website) synopsis (up to 3 pages in full) and you request to participate in the conference (necessarily).*
- 2. After the receiving message about the adoption materials by program committees on the e-mail address, authors **pay the registration fee** (the fee aspect and the details for payment look on the conference website)*
- 3. After confirmation of the payment in the form of copies of payment's document which must be sent to the email address of the organizing committee. Then participant will be reported **the details of access** to the discussion field of the conference in time.*
- 4. During conference the Program Committee determine the best synopses and recommends to the authors accordingly issued synopses to publish as articles in the digest of scientific papers "Bulletin of the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute". Series –Radiotechnique. Radioapparatus building". The digest is included into the list of publication which can publish results of the master's and doctoral theses in the field of technical sciences (for more information see radap.kpi.ua).*

REGISTRATION FEE

- 1. Participation in the conference — 25 \$. It includes placement of materials on the conference's website and inclusion the materials into the digest of synopses, participation in the discussion. Access to the internet version of the digest is free.*
- 2. Getting printed copies of the digest of synopses – 37 \$ / copy.*

BASIC REQUIREMENTS FOR PAPERS

*The abstracts' amount is three pages in full, including figures, tables, list of literature and annotations (document format — *.doc or *.docx, page format — A4 (210x297mm), page settings: upper field — 25 mm, lower field — 30 mm, left field — 30 mm, right field — 20 mm). The synopses should be logically structured and fully reflect the statement of the problem and the results of scientific research.*

The list of literature is designed in an appropriate way according to current requirements (GOST 7.1:2006 search at conf.rtf.kpi.ua) and brief annotations in three languages: Ukrainian, Russian and English that ends with keywords. Figures inscriptions — print at least 12 pt, line thickness figure — at least 1.2 pt. If possible, you should avoid colored pictures. Details look on the conference website conf.rtf.kpi.ua.

THE DIRECTIONS OF THE CONFERENCE WORK:

Section 1. Radiotechnical circuits and signals. Computing methods in radio electronics.

Methods and algorithms of analysis and synthesis of linear, arcwise-self-reactance, non-linear circuits; synthesis and analysis of optimal and quasi-optimal algorithms of detection, distinction, estimation of unknown parameters and filtration of signals; adaptive methods of overcoming of a priori vagueness are at treatment of signals in the radio-technical systems of the various destination; computing methods and algorithms of signals' treatment, information technology.

Section 2. Design, technology and operation of electronic equipment. Ultrasound equipment.

Methods and tools of the designing electronic equipment, including solving of schematic, designing and technological problems, automatical design systems, methods and tools for the maintenance of quality the electronic equipment and maintaining its functioning during operation/exploitation. Design and application of technological ultrasonic devices.

Section 3. Theory and practice of radiomeasuring

Methods and facilities of measuring of signals' parameters in the range of radio frequencies. Technical decisions concerning measuring of physical sizes in various spheres with the use of signals of radio frequency and microwave range. Features of construction of radio-metering facilities of the different destination.

Section 4. Electrodynamics. Devices of the super-high-frequency range and aerial equipment.

Electromagnetic theory; nature of electromagnetic waves; electrodynamics of environments; meta-materials; tasks of reflection and diffraction; directive structures and resonators; numeral methods in an electrodynamics; radio waves in the natural conditions; nonlinear tasks. Theoretical principles of design of aerials and microwave devices; methods of analysis and synthesis, structural and technological features of realization of aerials and microwave devices.

Section 5. Telecommunication, radio-location, navigation

Principles of construction, analysis and synthesis of radiotechnical devices, systems, programmatic-hardware complexes; use of radiotechnical devices and systems for the solution of connection tasks, management, detection and authentication of objects and so on.

Section 6. Radio electronics of biomedical technologies

Technical decisions concerning methods and facilities of medico - biologic diagnostics and treatment; descriptions of new devices, procedures, methods, technologies; research results of interaction of the electromagnetic fields and radiations with physical and biological objects.

Section 7. Microelectronic technology. Functional and nano electronics

Physico-technical and structurally-technological principles micro-, functional and nano electronics. Progress trends. Micro- and nanoelectronic devices.

Section 8. Information protection

Problems of development of normative and methodical bases of the systems of information protection; metrology providing of the systems of technical information protection; standardization, certification and test of facilities of technical information protection; providing of computer security in state, bank and other information systems; providing of information protection in communication networks; technical means of the system of information protection; cryptography.

ORGANIZING COMMITTEE OF CONFERENCE:

Holovnia Viktoriia *Chairman of the Organizing*

Lashcevska Natalia *Executive Secretary*

Members of the Organizing Committee:

Adamenko V.O., Zinger Y.L. Kozhukhar P.V., Kozachuk M. A.

Nikitchuk A.V., Novosad A.A., Piltiai S. I Sushko I.O., ,

Tovkach I.O.,

ORGANIZING COMMITTEE CONFERENCE ADDRESS:

National Technical University of Ukraine

" Igor Sikorsky Kyiv Polytechnic Institute "

Ukraine, 03056, Kyiv, Av. Peremogy, 37

2100 Radio Engineering Department, corp. 17, room 300

Telephone: +38097-291-26-15

*E-mail: **rtpsas@kpi.ua***

Contact: Viktoriia Holovnia