

## 16<sup>TH</sup> INTERNATIONAL CONFERENCE ON ELECTRONIC DEVICES AND CONTROL SYSTEMS

### International Scientific Conference on Electronic Devices and Control Systems (EDCS 2020)

Dear colleagues! TUSUR University is pleased to invite you to join the work of the International Conference on Electronic Devices and Control Systems.

The Conference welcomes faculty and research staff from institutions of higher education and research institutes, postgraduate and graduate students (with co-authors), and representatives of high-tech companies and organizations.

### OBJECTIVES

- To facilitate exchange of information about high-priority cutting-edge R&D.
- To discuss the contemporary issues of radioelectronics, and theory and practice of control systems.
- To identify the up-and-coming research trends for industries.
- To present new devices, engineering solutions, software products and systems.
- To bring together academic research and industry for development of high-tech products.

Undergraduate students, PhD students and young researchers up to 30 years old will have a chance to participate in the selection round of the FASIE UMNIIK-20 program (<http://www.fasie.ru>)

### IMPORTANT DATES

**Before September 20** – Paper submission with formatting in accordance with requirements specified on <https://conf.tusur.ru/>.

**September 20 – October 10** – paper review by section moderators.

**November 1–10** – invitation of participants.

**November 18–20** – conference sections.

### REGISTRATION FEE

The registration fee is 1000 rubles, which covers postage fees, publication of the program and proceedings of the conference.  
The registration fee is waived for faculty and students from international universities.

### PAPER PUBLICATION

Conference papers will be published in Conference Proceedings. Conference Proceedings will be published after the Conference and will be available in the Archive.

The publication is assigned an ISBN. Conference proceedings are included in the Russian Science Citation Index RSCI. The Program Committee will select the best papers to be published in the Proceedings of TUSUR University. The journal is listed among the leading Russian scientific journals and magazines recommended by the Higher Attestation Commission of Russia for publication of the key research findings of Candidate and Doctoral (PhD) theses.

The Conference accepts English-language papers (4-6 pages long) for selection and publication in Scopus and/or Web of Science indexed journals, for an additional fee. For information about paper submission, see the section "Scopus publications".

### CONTACTS

Please direct any organizational inquiries to Yelena Yurchenkova via [es@main.tusur.ru](mailto:es@main.tusur.ru) or at **+7 (3822) 701-524**

or Yulia Bober at **+7 (3822) 701-558**

**Mailing address:** 634050, Tomsk, 40 Lenina prospekt, office 205, attn. Organizing Committee of Electronic Devices and Control Systems.

Conference site

<http://www.tusur.ru/ru/science/events/conferences/>  
<https://tusur.ru/en/research/tusur-conferences/international-scientific-conference-on-electronic-devices-and-control-systems>

Application and paper submission:  
<https://conf.tusur.ru/>

Ministry of Science and Higher Education of the Russian Federation  
Tomsk State University of Control Systems and Radioelectronics (TUSUR)

Administration of Tomsk region

Administration of Tomsk

Tomsk group and student branch of the IEEE

TUSUR Research Institute of Automatics and Electromechanics

Micran Research and Production Company

Information Satellite Systems Reshetnev

Milandr

Keysight Technologies

National Instruments



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**November 18–20, 2020**

First information message

Tomsk



## CONFERENCE SECTIONS

1. Plenary speeches
2. Radio engineering and telecommunication systems
3. Microwave nanoelectronics. Intelligent design systems, automation of design of electronic devices and systems
4. Nanotechnology in electronics
5. Antennas and microwave devices
6. Control devices and methods
7. Nonlinear optics
8. Intelligent power electronics and converter equipment
9. Plasma electronics
10. Microwave radiophotonics systems and devices
11. Organic and inorganic semiconductor lighting engineering
12. Electromagnetic compatibility
13. Automation and optimization of control and information processing systems
14. Information security
15. Information technologies in management and decision-making
16. Information technologies in education
17. Video information technologies and digital television
18. Robotics and mechatronics
19. Design and engineering of web systems and mobile apps
20. E-government: business and administration
21. Results of postgraduate and master students' research in the sphere of electronics and control systems (English-language section)



## PAPER SUBMISSION AND FORMATTING

**The Conference Proceedings accepts papers that have not been published in or submitted for consideration to other publications, that satisfy the requirements detailed below, that have been peer reviewed (provided by the Organizing Committee) and that have successfully passed a plagiarism check (with at least 85% of original text).**

1. Applications are submitted via <https://conf.tusur.ru/>. The application must be accompanied by the paper attached as a .doc file (and as a .pdf file with authors' signatures, including the research supervisor's signature if the paper is published by a student without co-authors).
2. The paper must have (in the same order): UDC, name, patronymic, last name of authors, title, abstract (not summary), keywords, the body of the paper, a list of References, information about the authors; then, in English: full names of authors, title, abstract, keywords. Information about the authors includes: last name, first name and patronymic, academic degree, academic title, position, place of employment, phone number, e-mail.
3. Conference papers accepted for publication can have up to four authors. One author can be a co-author in up to three papers accepted for publication.
4. The text must be arranged in two columns, without hard return, with a single line spacing in Times New Roman (font size 10 pt). The document must have 25 top and bottom margins, 23 mm inner and 2 mm outer margins. The volume of a properly formatted paper must be no larger than four pages. Paper and references template can be found on the conference site.
5. The paper must be consistent in its use of symbols and characters throughout the text, formulas, tables and figures. Cyrillic and Greek characters must be in regular upright type, and Roman characters (except for those included in regular words and their abbreviations, names of functions, software, companies and chemical formulas) must be in italic type.
6. Formulas should be typed in Equation or MathType editor (MS Word). Cyrillic text, Greek characters, mathematical symbols (+, -, \*, =, brackets, ...) and digits should always be typed in regular upright type, and Roman characters denoting variables should be in italic type, except for those included in regular words and their abbreviations, names of functions, software, companies and chemical formulas (const, input; sin x(t)); Uin; Ibx; Iz; H2O, Adobe Acrobat, Cisco, etc.); vector values should be in bold upright type (not italic) – A1, M(f). Formula templates can be found in the paper template.

7. All designations and abbreviations must be explained when first used in the text.
8. The paper must use the International System of Units (SI) and use the standard Russian designations separated by a single space (x, ГГц; 20 ГГц; Т, град; 7 °С). In Russian-language papers, decimal numbers must be written with a comma (not a dot).
9. All tables and figures must have appropriate headings (not full-text references copied from the body of the paper). (Fig. 1. Title; Table 1. Title). Large legends should be preferably included in the text. All headings and titles should be in Times New Roman (font size 9 pt), regular type, no italics, variables should be the same as in the text. All figures and tables should be referenced to in the text (... in Fig. 3, ... in Table 2).
10. All figures and photographs should be in grayscale, sharp, hard, clean, grouped. Lines in charts and graphs should not be bold, grid lines should be clear. In Russian-language papers, units of measurement should be in Russian. In Russian-language papers, decimals should use commas (not dots). Figures should be executed in CorelDraw, Illustrator, Word, Visio and be editable.
11. Illustrations should have at least 600 dpi. Image scale should be 8 or 16.7 across the width (provided that it allows legibility of any text written in Times New Roman, 9 pt).
12. The list of references is required. All sources in the list of references should be referenced in the text (numbered in the textual order, e.g., [1, 2], [5–7]). References must be formatted in accordance with GOST 7.1-2003 and GOST R 7.0.5-2008 and contain all information necessary to identify the source: for non-periodicals – last name and initials of author, full title, place of publication, name of publisher, year of publication, number of pages; for periodicals – last name and initials of author, full title, journal title, year, volume, number, page numbers.
13. Hard copy of the paper is not required. The paper must be accompanied by the Expert's Report with a clearance for open publication, and a consent to personal data processing. The Expert's Report and the consent should be attached to the application or submitted separately to the Organizing Committee via e-mail.

**Authors are solely responsible for the content of their papers and the consequences of their publication.**