



**19th International Conference of Young
Specialists on Micro/Nanotechnologies and
Electron Devices (EDM 2018)
June 29-July 3, 2018
Erlagol (Altai Republic, Russia)**

20 Prospekt K. Marksa, bldg.4, 316
Novosibirsk, 630073, Russia
Organizing Committee EDM 2018
Tel. +7-963-944-8847 (Shults Tatiana)
Tel. +7-913-792-7098 (Khristolyubova Alexandra)
E-mail: edm.conf@mail.ru
Сайт: <http://edm.conf.nstu.ru/edm2018/>

SPONSORS

Novosibirsk State Technical University
IEEE Russia Siberia Section

PARTNERS

Rzhanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences
Biysk Technological Institute of Altai

ORGANIZING COMMITTEE

General Chairman: *Sergey A. Kharitonov* – Dr.Sc., Prof., Head of the Power Electronics Institute, NSTU, Russia.

Co-chairmen:

Sergey V. Brovanov – Dr.Sc., Associate Prof., Head of the Department of Computer Engineering, Vice Rector for Academic Affairs, NSTU, Novosibirsk, Russia;

Vladimir A. Khrustalev – Dr.Sc., Prof., Dean of the Faculty of Radio Engineering and Electronics, NSTU, Russia.

Program and Organizing Committee:

- *Igor G. Neizvestnyi* – Dr.Sc., Prof., Corresponding Member RAS, Counsellor of Rzhanov Institute of Semiconductor Physics, SB RAS, Russia;
- *Svetlana V. Vorobyova* – Cand.Sc., Associate Prof. of the Department Radio Engineering Systems SibSUTIS, Novosibirsk, Russia;
- *Viktor A. Gridchin* – Dr.Sc., Prof., Head of the Department of Semiconductors and Microelectronics, NSTU, Novosibirsk, Russia;
- *Dmitry I. Ostertak* – Cand.Sc., Head of the Department of Semiconductors and Microelectronics, NSTU, Novosibirsk, Russia;
- *Gennady S. Evtushenko* – Dr.Sc., Prof. the Department of Industrial and Medical Electronics, TPU, Tomsk, Russia;
- *Dmitri Vinnikov* – Dr.Sc.techn., Head of Power Electronics Group, TUT, Tallinn, Estonia;
- *Gennady S. Zinoviev* – Dr.Sc., Prof., Department of Electronics and Electrical Engineering, NSTU, Novosibirsk, Russia;
- *Vladimir K. Makukha* – Dr.Sc., Prof., Head of the Department of Electron Devices, NSTU, Novosibirsk, Russia;

- *Vladislav Y. Vasiliev* – Dr.Sc., Prof., Department of Semiconductors and Microelectronics, NSTU, deputy director of SibIS, Novosibirsk, Russia;
- *Alexey S. Rodionov* – Chair of IEEE Russia Siberian Section, Prof., Department of Computer Systems, SIBSUTIS, Department of Computer Engineering, NSTU, Novosibirsk, Russia;
- *Alexander I. Aliferov* – Dr.Sc., Prof., Head of the Department of Automation of Electric Technological Installations, NSTU, Novosibirsk, Russia;
- *Alexander G. Garganeev* – Dr.Sc., Prof., Head of the Department of Electromechanical Plants and Materials, TPU, Tomsk, Russia;
- *Maksim A. Stepanov* – Cand.Sc., Associate Prof., Department of Radio Receivers and Radio Transmitters, NSTU, Novosibirsk, Russia;
- *Evgeny V. Sypin* – Cand.Sc., Associate Prof., Department of Methods and Means of Measurement and Automation of Biysk Technological Institute, Biysk, Russia;
- *Vladimir N. Khmelev* – Dr.Sc., Prof., Vice-Rector for Scientific Work of Biysk Technological Institute, Biysk, Russia;
- *Jürgen Petzoldt* – Prof. Dr.-Ing. Habil, Technische Universität Ilmenau, Ilmenau, Germany;
- *Oleg V. Nos* – Dr.Sc., Associate Prof., Department of Industrial Machinery Design, NSTU, Novosibirsk, Russia;
- *Kasymbek A. Ozhikenov* – Cand.Sc., Associate Prof., Head of the Department of Robotics and Engineering Tools of Automation, Kazakh National Research Technical University after K.I.Satpayev, Almaty, Kazakhstan;
- *Sergey P. Khalyutin* – Dr.Sc., Prof., Head of the Department of Electrical Engineering and Aviation Electrical Equipment, MSTUCA, director of “NaukaSoft” LLC, Moscow, Russia.

Secretaries of the Conference:

Tatiana E. Shults - Postgraduate student of the Department of Electronics and Electrical Engineering, NSTU, Novosibirsk, Russia;

Alexandra I. Khristolyubova – Senior Lecturer of the Department of Electronics and Electrical Engineering, NSTU, Novosibirsk, Russia;

Andrey V. Sidorov - Postgraduate student of the Department of Electronics and Electrical Engineering, NSTU, Novosibirsk, Russia.

PURPOSE OF THE CONFERENCE

The Conference makes possible the fastest and effective meet of young specialists with the latest achievements of the leading scientific schools of Russia and foreign countries, experience interchange, establishment of business and scientific communication, own achievements presentation.

PARTICIPANTS

Young scientists under the age of 35 years, graduate students, undergraduates, senior students.

INVITED SPEAKERS

Doctors and Candidates of Science, heads of scientific groups and industrial enterprises.

WORKING LANGUAGES

Russian and English

CONFERENCE SECTIONS

Section 1. Semiconductor Physics and Technology. Photovoltaics.

Chairman – Viktor A. Gridchin, Dr.Sc., Prof.

Section 2. Radio and Microwave Technology. Computer Science and Telecommunications.

Chairman – Svetlana V. Vorobyova, Cand.Sc., Associate Prof.

Section 3. Sonic and Ultrasonic Devices: Physics, Electronics, Application

Chairman – Vladimir N. Khmelev, Dr.Sc., Prof.

Section 4. Optoelectronic Devices and Systems: Physics, Electronics, Application

Chairman – Evgeny V. Sypin, Cand.Sc., Associate Prof.

Section 5. Power Electronics and Power Engineering

Chairman – Gennady S. Zinoviev, Dr.Sc., Prof.

Section 6. Medical Electronics

Chairman – Vladimir K. Makukha, Dr.Sc., Prof.

Section 7. Robotics, Mechatronics and Automation

Chairman – Oleg V. Nos, Dr.Sc., Associate Prof.

VENUE

Altai... A unique landscape, healthy mountain air and clean natural water attract many tourists, both from Russia and from countries near and far abroad. Participants of numerous scientific conferences held in the Altai, have a unique opportunity to communicate freely and to exchange. A comfortable bus will deliver participants from Novosibirsk to the the sport-camp “Erlagol”. Participants and guests of the conference will be offered a variety of cultural and sporting events, excursions.

The sessions will be held in conference rooms equipped with computers and projectors.

Thanks to created conditions one can not only take part in the conference but also relax.

IMPORTANT DATES

[Open registration](#) – November 20, 2017

Deadline for applications and Paper submission – **January 25, 2018**

Notification of paper acceptance – **February 28, 2018**

Deadline for payment of the registration fee – **April 16, 2018**

INSTRUCTION FOR AUTHORS

To take part in the conference all potential participants, including guests, must fill in the online **[application form](#)**. Deadline for applications is **January 25, 2018**.

With the application the authors must submit:

1. **full text of the paper (doc or docx)** in English, drawn in accordance with the requirements (requirements are presented in the **[attached file](#)**). The name of the file should be in the format *SectionNumber_Author'sSurname_en* (for example *2_Petrov_en*);
2. **full text of the paper** in Russian - only for authors from the Russian Federation. The name of the file should be in the format *SectionNumber_Author'sSurname_ru* (for example *2_Petrov_ru*);
3. **security clearance** - only for authors from the Russian Federation, drawn at the place of study/work. The name of the file should be in the format *SectionNumber_Author'sSurnameInitials_expert* (for example *2_PetrovAA_expert*);
4. **export commission conclusion** - only for authors from the Russian Federation, drawn at the place of study/work. The name of the file should be in the format *SectionNumber_Author'sSurnameInitials_export* (for example *2_PetrovAA_export*);

Papers submitted to Program Committee must contain the results of original and unpublished researches. Paper should adequately convey the nature of the research, papers with low scientific level will be declined. The quality of the English text must meet the requirements of literacy, long expressions should be avoided and generally accepted scientific terminology should be used.

Publication volume cannot be less than 2 pages (excluding references and information about authors) and exceed 6 pages, authorship should be limited to six authors.

In order to ensure the high quality of published materials and copyright compliance all papers submitted to program committee are checked by IEEE Cross Check system.

ATTENTION! After confirmation of acceptance author must convert doc(docx)-file to PDF format by **IEEE pdf eXpress**. All the instructions for conversion will be sent authors by email after notification of paper acceptance. Dear participants, Program Committee recommend to check pdf file after conversion.

Author becomes an official participant and his/her paper is included in the Proceedings of EDM 2018 if:

1. the Program Committee has accepted the paper for publication;
2. the confirmation has been sent to the author by e-mail specified during registration;
3. paper in pdf format has been received by Program Committee;
4. payment of the registration fee has been done;
5. hard-copy of IEEE CF and documents (security clearance, export commission conclusion - only for Russian citizens) have been provided.

REGISTRATION FEE

It is proposed three forms of participation: **absentee participation, direct participation and guest.**

Absentee participation gives the right to publish a paper in EDM 2018 Proceedings.

Direct participation gives the right to publish a paper in EDM 2018 Proceedings and to take part in the conference.

Guest participation gives the right to take part in the conference.

Each participant who has paid the registration fee for absentee or direct participation receives one copy of the EDM 2018 Proceedings.

Pay attention, the possible number of participants is limited.

Additional (additional payment required)

- each page of the paper (over 6 pages);
- delivery of the Proceedings (according to the shipping cost of the "Russian Post" at June 2018 + 18% VAT, see text below);
- additional EDM 2018 Proceedings (it is necessary to notify the organizing committee by email till April 16, 2018).

	Participation			Additional page of paper	Additional EDM 2018 Proceedings
	Absentee	Direct	Guest		
IEEE Members	5580 RUR.	8820 RUR.	8100 RUR.	270 RUR.	800 RUR.
Non-Members	6200 RUR.	9800 RUR.	9000 RUR.	300 RUR.	

	Absentee participation	Direct Participation	Guest of the Conference
Publication of the paper in EDM 2018 Proceedings	+	+	-
EDM 2018 Proceedings	+	+	-
Program of EDM 2018	-	+	+
Participant's kit	-	+	+
Transportation charges (route: NSTU – the sport-camp “Erlagol” – NSTU)	-	+	+
Board and lodging (at the sport-camp “Erlagol”)	-	+	+
Banquet (July 1, 2018 г., the sport-camp “Erlagol”)	-	+	+
Certificate of participation	-	+	-

Delivery of the Proceedings

Delivery of Proceeding is made only on participant request. **Deadline for delivery payment - June 25, 2018.** The Proceedings will be sent no later than 17 July 2017 by "Russian Post". Please, write a letter to the conference e-mail with the title of the paper, the delivery address, the addressee, the type of delivery (with tracking, without tracking). After that, you will be provided information about delivery cost (**including 18% VAT**), indicating the weight of the parcel. [Website of Russian Post.](#)

WAYS OF PAYMENT

1. [Bank transfer](#)

Essential Elements:

ИНН 5404105174

КПП 540401001

УФК по Новосибирской области (НГТУ л/с 20516У21090)

Банк получателя:

Сибирское ГУ Банка России

БИК 045004001

Р/сч. № 40501810700042000002

ОКПО 02068953

ОГРН 1025401485010

ОКАТО 50401377000

ОКТМО 50701000001

ОКОГУ 1322500

ОКФС 12

ОКОПФ 75103

Payment purpose (**obligatory**):

КБК 000000000000000000130

Registration fee EDM 2017 (72-7020) (including VAT 18%), participant's name.

Copy of the payment confirmation must be sent by email to Organizing Committee: edm.conf@mail.ru

2. Payment of the account:

To get invoice you should download contract, fill in it and send us by [e-mail](#). After signing the contract you will receive an account for payment. **This account must be paid before April 16, 2018.**

The procedure for signing documents:

1. agreeing the contract on the part of your organization;
2. agreeing the text of the contract (if changes were made) by the NSTU;
3. signing of the contract (in 2 copies) by the NSTU;
4. invoicing;
5. providing an electronic copy of contract and invoice (signed by the NSTU) to payment;
6. payment;
7. transfer of contract (in 2 copies) to signature of your organization;
8. delivery of contract (signed by the two parties, duplicate of NSTU) to the secretary of the conference EDM 2018, Shults Tatiana (by mail, personally);
9. delivery of Service Acceptance Act to signature on your organization;
10. delivery one copy of Service Acceptance Act (signed by your organization) to the secretary of the conference EDM 2018, Shults Tatiana (by mail, personally).

Glad to see you at EDM 2017!