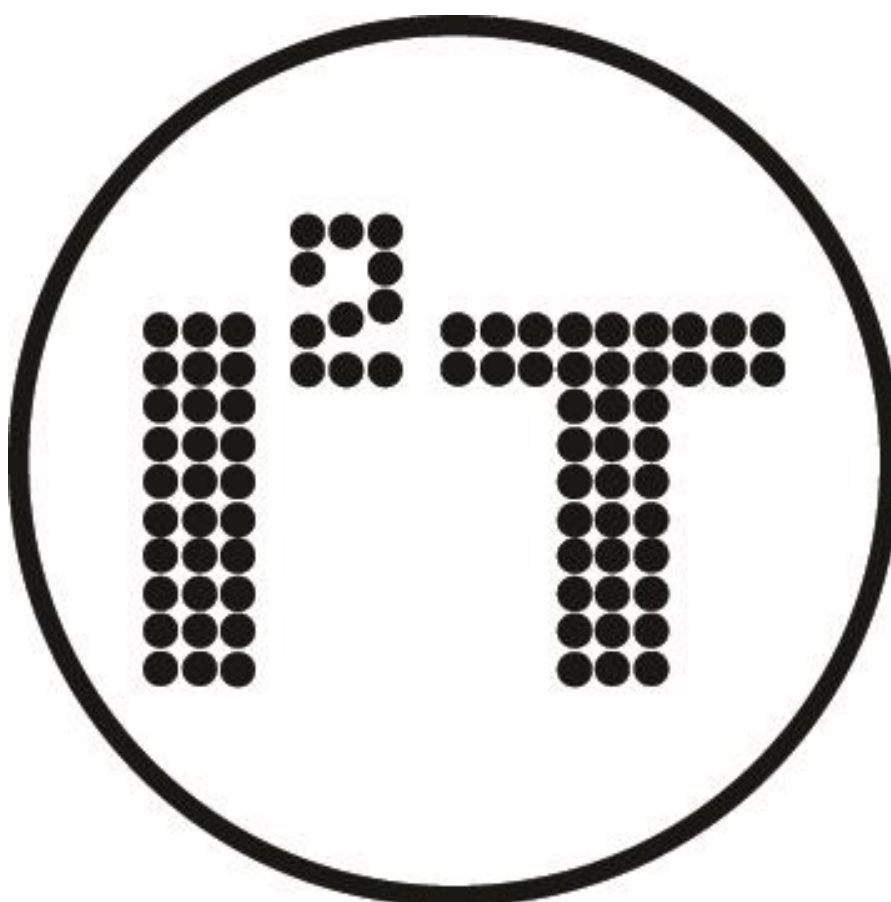


**Programme of the International
Scientific – Practical Conference
«INFORMATION INNOVATIVE TECHNOLOGIES»**



**Prague – 2021
April 26-30**

EVENTS

Section meetings



Section 1. Information technologies in education

Questions under consideration: educational process management at the high, secondary and basic education; distance education; ICT for improvement of teaching quality and others.

Form of the report – section

Time-limit of the speech – up to 10 minutes



Section 2. Information technologies in science and industry

Use of modern information technologies in provision of scholar researches and new types of equipment and technologies creation.

Form of the report – section

Time-limit of the speech – up to 10 minutes



Section 3. Information technologies in social-economic sphere

This section is dedicated to issues of innovative and information technologies use in different spheres of society life and activities.

Form of the report – section

Time-limit of the speech – up to 10 minutes

International Seminar on Electron Devices Design and Production (SED-2021)



Key objectives of the seminar:

1. Computer-aided design and production of electron devices
2. Electronics Manufacturing Services
3. Ensuring the Quality and Reliability of Electronics Devices
4. Electromechanical energy converters

CONFERENCE SCHEDULE

EVENTS	26.04.21 Mon	27.04.21 Tue	28.04.21 Wed	29.04.21 Thu	30.04.21 Fri
Organizational meeting of conference (I2T) and seminar (SED) participants	From 13.00 to 14.00				
Opening ceremony (I2T and SED)		From 10.00 to 10.30			
Section meeting SED-2021		From 10.30 to 16.00	From 10.00 to 15.00		
Section meeting I ² T			From 15.00 to 18.00	From 10.00 to 18.00	
Poster session					
Final meeting, summarizing and making conclusions					From 10.00 to 11.00

Lunch break - From 13.00 to 14.00

ORGANIZATIONAL MEETING OF CONFERENCE (I2T) AND SEMINAR (SED)
PARTICIPANTS

April 26, 2021 at 13:00

<https://us02web.zoom.us/j/86199708856?pwd=ZjIwZDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

OPENING CEREMONY (I2T and SED)

April 27, 2021 at 10:00

<https://us02web.zoom.us/j/86199708856?pwd=ZjIwZDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

Section 1
INFORMATION TECHNOLOGIES IN EDUCATION

April 28, 2021 at 15:00

<https://us02web.zoom.us/j/86199708856?pwd=ZjIwZDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

1. EXPERIENCE IN APPLICATION OF INTERNET TECHNOLOGIES FOR REMOTE WORK ON SCHOOL SCIENTIFIC PROJECTS IN THE CONTEXT OF UNIVERSITY-TO-SCHOOL INTERACTION
Bulakh D.A.¹, Smirnova T.V.²
¹National Research University of Electronic Technology (MIET), Zelenograd, Moscow, Russia, ²Municipal Budgetary General Education Institution "High School No 7", Torzhok, Russia
2. OPPORTUNITIES AND PROSPECTS FOR ORGANIZING TRAINING OF STUDENTS WITH DISABILITIES USING MODERN INFORMATION TECHNOLOGIES
Romanenkova D.F.
Chelyabinsk State University
3. TOWARDS A METHOD FOR DETERMINING SIGNS OF AUTHOR STYLE FOR TEXTS IN RUSSIAN
Kondrashova O.P.¹, Volkova L.L.^{1,2}
¹Bauman Moscow State Technical University, ²NRU HSE, MIEM

4. METHOD FOR DETERMINING SIGNS OF THE AUTHOR'S STYLE FOR TEXTS IN RUSSIAN LANGUAGE
Kondrashova O.P., Volkova L.L.
Bauman Moscow State Technical University
5. DEVELOPMENT AND ANALYSIS OF A METHOD FOR INCREASING THE SECURITY OF HARDWARE AND SOFTWARE OF INDUSTRIAL FACILITIES OPERATING ON THE BASIS OF LANS OF VARIOUS HIERARCHICAL STRUCTURES
Nikitin V.I., Dronov Y.V.
MIREA - Russian Technological University
6. TEXT RECOGNITION FROM VIDEO RECORDINGS
E. Belyakova, M. Volkov
National Research University Higher School of Economics, Moscow
7. DEVELOPMENT OF A SOFTWARE PROTOTYPE OF THE PROFESSIONAL SKILLS TESTING FOR ENGINEERING STUDENTS
Kulikova N.N., Rudoman N.R., Polovodov Yu.A.
Kuban State University
8. ANALYSIS OF SOFTWARE FOR THE DEVELOPMENT OF SITES OF SCIENTIFIC AGRARIAN ORGANIZATIONS
Medennikov V.I., Flerov Y.A.
Federal Research Center "Informatics and Control" of the Russian Academy of Sciences
9. INFLUENCE OF THE SOFTWARE FOR THE DEVELOPMENT OF SITES OF AGRARIAN UNIVERSITIES ON THE INTEGRATION PROCESSES OF FORMING A UNIFIED EDUCATIONAL ENVIRONMENT
Medennikov V.I., Flerov Y.A.
Federal Research Center "Informatics and Control" of the Russian Academy of Sciences
10. TEACHING THE FUNDAMENTAL BASES OF ARTIFICIAL INTELLIGENCE AS THE IMPLEMENTATION OF THE CONCEPT OF NEW SCIENTIFIC KNOWLEDGE
Glavatsky S.T., Burykin I.G.
Federal State Budget Educational Institution of Higher Education M.V. Lomonosov Moscow State University, Russia, Moscow
11. DEVELOPMENT OF A GOOGLE DOCUMENTS WORKBOOK
Kuryшева M.D., V.V.Rybnikova, A.M.Safronov, D.A.Korolev
HSE Tikhonov Moscow Institute of Electronics and Mathematics (MIEM HSE)
12. SOFTWARE SYSTEM FOR STUDENT KNOWLEDGE CONTROL
Larina T.B.
Russian University of Transport (RUT-MIIT)

Section 2
INFORMATION TECHNOLOGIES IN SCIENCE AND INDUSTRY

April 29, 2021 at 10:00

<https://us02web.zoom.us/j/86199708856?pwd=ZjlWdDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

1. ON EQUIPPING F-2 THE AFFECTIVE ROBOT WITH TACTILE SENSORS
Ignatev A.I.¹, Volkova L.L.^{1,2}
¹Bauman Moscow State Technical University, ²Russian State University for the humanities
2. SOLVING THE PROBLEM OF TWO-DIMENSIONAL PACKING BASED ON THE WOLF PACK ALGORITHM
Kureichik V.V., Kuliev E.V., Kursitys I.O., Ignatyeva S.V.
Southern Federal University
3. GEOINFORMATIONAL TECHNOLOGY FOR ESTIMATING THE VELOCITY CHARACTERISTICS OF THE MEDIUM
Pinigina D.L., Kopylova O.A.* , Khairtdinov M.S.*
Novosibirsk State Technical University, *The Institute of Computational Mathematics and Mathematical Geophysics SB RAS
4. ANALYSIS THE RESULT OF DECONVOLUTION OF A DISTORTED AUDIO SIGNAL
Rogov A.A.
Bauman Moscow State Technical University
5. ANALYSIS OF POLYMODAL INTERACTION IN APPLIED INFOCOMMUNICATION SYSTEMS
Solomko Y.S., Sotnikov A.D., Katasonova G.R.
Federal State Budget-Financed Educational Institution of Higher Education «The Bonch-Bruевич St. Petersburg State University of Telecommunications»
6. ON THE DEVELOPMENT OF SOFTWARE WITH A GRAPHICAL INTERFACE THAT SIMULATES THE ASSEMBLY OF THE CONSTRUCTOR
Romanov V.A.
Bauman Moscow State Technical University
7. DEVELOPMENT OF THE PRODUCTION SYSTEM OF A MACHINE-BUILDING COMPANY BASED ON THE APPLICATION OF LEAN PRODUCTION
Emanakov I. V., Tarasov A.P.*
RTU-MIREA (Moscow), *LLC «Technologistik» (Bronnitsy)
8. THERMAL REGIMES INVESTIGATION OF 3D PRINTED UNITS OF ELECTRONIC DEVICES
Glukhov P.A., Uvaysov S.U., Chernoverskaya V.V., Selivonova M.V.

Moscow Technological University (MIREA)

9. GEOECOLOGICAL RISKS OF TECHNOGENIC NOISE AT LOW FREQUENCIES
Kopylova O.A.*, Khairtdinov M.S. ***
* Institute of Computational Mathematics and Mathematical Geophysics SB RAS, **
Novosibirsk State Technical University
10. INTELLIGENCE DECISION SUPPORT SYSTEMS UNDER THE KNOWLEDGE-BASED PROJECTS MANAGEMENT
S. S. Barkov, *S. A. Ovchinnikov
4294 Military Representative Office of Ministry of Defence of the Russian Federation,
(VP MO RF) (Moscow), * MIREA — Russian Technological University (Moscow)
11. MULTIFUNCTIONAL MOBILE APPLICATION "MIEMAPP"
Kurkin A.N., Nikolenko M.V., Fedorov T.A., Korolev D.A.
National Research University Higher School of Economics
12. METHOD OF DOCUMENT CLASSIFICATION BY FULL-TEXT PAYMENT DESCRIPTION IN RUSSIAN
Zorina D. A., Lavrova A. A., Volkova L. L.
Bauman Moscow State Technical University
13. TRANSCIEVER MODULE FOR DIGITAL ACTIVE PHASED ARRAY ANTENNA
Mikhalaki E.A.
Russian Technological University MIREA
14. CONSTRUCTION OF A STRENGTH MODEL OF A STRAPDOWN INERTIAL BLOCK OF A SPACE ORBITER
Sokolan P.I., Raevskiy G.P., Khadzhyskaya E. I.
MIREA — Russian Technological University, Moscow
15. INTELLIGENT ADAPTATION OF TRAFFIC LIGHT CONTROLLERS
¹ Zhamangarin Dusmat, ² Smailov Nurzhigit, ³ Dushayeva Tursyngul, ⁴ Urazova Gulnaz, ⁵ Izteleuova Gulzada
¹Kazakh University Ways of Communications, Kazakhstan, ²Satbayev University, Kazakhstan, ^{3,4,5} Kazakhstan University of Innovative and telecommunication systems
16. FEATURES OF SPACE EQUIPMENT FOR SENSING THE EARTH'S SURFACE
Andreev I.S., Gladkiy D.A., Ivanov V.S., Chernoverskaya V.V.
RTU MIREA
17. METHOD AND MEANS OF OPTIMIZING THE LAYOUT OF ELEMENTS IN ELECTRONIC MEDIA
¹Bushmeleva K. I., ¹Dimitrieva E. A., ²Uvaysov S. U.
¹Surgut State University, ²MIREA-Russian Technological University
18. DIGITAL ENVIRONMENT OF THE UNIVERSITY
Katasonova G.R. ¹, Shkrum A.S. ²

¹Federal State Budget-Financed Educational Institution of Higher Education «The Bonch-Bruевич St. Petersburg State University of Telecommunications», ²Saint Petersburg State University

19. ELECTRONIC EDUCATIONAL RESOURCES FOR STUDENT DENTISTS
Katasonova G.R.¹, Shkrum A.S.²
¹Federal State Budget-Financed Educational Institution of Higher Education «The Bonch-Bruевич St. Petersburg State University of Telecommunications», ²Saint Petersburg State University
20. MICROPROCESSOR CONTROL OF THE OPTIMIZED CHARGE OF STORAGE BATTERIES FOR A SOLAR POWER PLANT ON Si-PHOTO-ELECTRIC CONVERTERS
Chernyshov N.N.; Belousov A.V.
Belgorod State Technological University named after V.G. Shukhov
21. EVALUATION OF THE DEPENDABILITY INDICATORS OF THE RESTORED EQUIPMENT BY THE SIMULATION METHOD
V.V. Zhadnov
National Research University “Higher School of Economics”
22. PORTABLE GAMMA RADIATION DETECTOR
Andryukhin A.G., Grachev N.N.*, Boyko D. V.
MIREA - Russian Technological University, *HSE - National Research University
23. LOCAL COMPUTER NETWORK DATA PROTECTION DEVICE WITH VOICE WARNING OF UNAUTHORIZED ACCESS
Andryukhin A.G., Grachev N.N.*, Lvov N.S.
MIREA - Russian Technological University, *HSE - National Research University
24. AERODROME COATING QUALITY CONTROL DEVICE
Baukov D.A., Dronov Yu.V.
MIREA - Russian Technological University
25. DEVELOPMENT OF A CONTROL SYSTEM FOR A HYDROPONIC PLANT
Baykov A.A., Chernoverskaya V.V.
Moscow Technological University (MIREA), Russia, Moscow
26. ANALYSIS OF THE CDFP MSA CONNECTED TRANSCEIVER STANDARD FOR HIGH SPEED TELECOMMUNICATIONS
Goryunov E.M., Aminev D.A., Ivanov I.A.
MIREA – Russian technological university
27. COMMUNICATION SYSTEM FOR MONITORING AGROMETEO PARAMETERS
Golovinov E.Je., Aminev D.A., Kasparyan A.M.
All-Russian Research Institute for Hydraulic Engineering and Land Reclamation (VNIIGiM)

28. IMPLEMENTATION OF RECEPTION OF BROADBAND COMMUNICATION SYSTEMS WITH CORRELATORS AND MATCHED FILTERS
Antropov V.V., Goryachev P.K..
RTU MIREA
29. CONTROL DEVICE FOR AUTOMATIC FIRE EXTINGUISHING IN GROUND PUBLIC TRANSPORT
Ryashentsev S.A., Dronov Yu.V.
MIREA - Russian Technological University
30. PORTABLE HARDWARE AND SOFTWARE DEVICE FOR AUTOMATED CONTROL OF THE INTEGRITY OF CABLE PRODUCTS
Valiullov M.A., Andryukhin A.G
MIREA - Russian Technological University
31. PROBABILITY OF FAILURE-FREE OPERATION OF DIODE ASSEMBLIES IN THE CONTROL UNIT OF MICROWAVE SIGNALS PARAMETERS
Emelyanov I.A., Ivanov I.A.
MIREA - Russian Technological University
32. CREATION OF ELECTRONICAL MODEL OF THE PRODUCT FOR THE DESIGN OF ROCKET AND SPACE TECHNOLOGY PRODUCTS
Gorozhankina A.S., Ivanov I.A.
RTU MIREA
33. DEVELOPMENT AND TESTING OF THE LASER SYSTEM CASE FOR MONITORING DEFORMATIONS IN LONG BUILDINGS AND BRIDGES
Andreev I.S., Gladkiy D.A., Ivanov V.S.
RTU MIREA
34. CONSTRUCTION OF THE PRINTING UNIT FOR CONTROL AND CONTROL OF THE LASER GYROSCOPE UNIT
Menshikova D.F., Raevsky G.P.
MIREA - Russian Technological University
35. INFLUENCE OF PERFORATION ON THE TEMPERATURE REGIME OF THE BLOCK
Akhmetshin A.I., Ivanov I.A.
MIREA - Russian Technological University
36. APPLICATION OF FACTOR AND CLUSTER ANALYSIS METHODS TO ASSESS THE EFFECTIVENESS OF THE SCIENTIFIC RESEARCH
Andriyanov N.A., Andriyanov D.A.*
Financial University under the Government of the Russian Federation, *Ulyanovsk State Technical University
37. METHODOLOGY FOR ASSESSING THE EFFECTIVENESS OF THE PRODUCT QUALITY MANAGEMENT SYSTEM AT THE STAGES OF THE LIFE CYCLE
Kirov A.V.
MIREA - Russian technological university (RTU MIREA)

38. CONTROL DEVICE FOR SILICON PIXEL DETECTORS ARRAY
Gorbokonenko P.A., Khodorovich V.G., Pevtsov E.Ph., Mareeva E.V.
Federal State Budget Educational Institution of Higher Education «MIREA – Russian Technological University» (RTU MIREA)
39. THE ASSESSMENT OF THE IMPACT OF CONTACT RADIO INTERFERENCE ON A COMMUNICATION RADIO ENGINEERING SYSTEM
Utkin B.V., Grachev N.N., Matveev V.E.
National Research University Higher School of Economics

Section 3
INFORMATION TECHNOLOGIES IN SOCIAL-ECONOMIC SPHERE

April 29, 2021 at 16:00

<https://us02web.zoom.us/j/86199708856?pwd=ZjlWdDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

1. RETAIL SEGMENT OF THE RUSSIAN PHARMACEUTICAL MARKET DEVELOPMENT TRENDS
Tikhomirova T.M., Solovieva E.V.
Plekhanov Russian University of Economics, Moscow
2. INFORMATION TECHNOLOGIES IN POPULATION FORECASTING
Osipov A.L., Trushina V.P.
Novosibirsk State University of Economics and Management
3. STUDYING THE ISSUE OF COMBATING THE DECLINE IN COGNITIVE FUNCTIONS BY CONTROLLING THE PARAMETERS OF THE MICROCLIMATE
Volkov D.A.
MIREA - Russian Technological University
4. COGNITIVE MODEL FOR FORECASTING UNIVERSITY POSITIONS IN INTERNATIONAL RATINGS
Mikryukov A.A.
Mathematics, Information Systems and Digital Economy Institute of the Plekhanov Russian University of Economics

SECTION MEETING SED-2021

<https://us02web.zoom.us/j/86199708856?pwd=ZjlWdDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

Electronics Manufacturing Services			
April 27, Tuesday			
1.	10.30-10.45	Near-field optical communication and optoelectronic data medium based on a new physical principle – an alternative to NFC and RFID	Vladimir Livshits
2.	10.45-11.00	Analysis of the Suspension Elements for the Sensitive Element of a Micromechanical Accelerometer	Ye Ko Ko Aung, Sergey P. Timoshenkov , Boris M. Simonov , Andrey C. Riabyshenkov
3.	11.00-11.15	Contact systems for thermoelements with operating temperatures up to 1200 K	Maxim Shtern Maxim Rogachev Yury Shtern Alexander Kozlov Alexey Sherchenkov Egor Korchagin
4.	11.15-11.30	Development of the indoor climate control system	Sergey Polesskiy, Daniel Klyuvakov, Alexander Tonkov
5.	11.30-11.45	Calculation of the absorbed dose of electron radiation in polymer cases of microelectronic devices, considering the factor of its accumulation	D.Abrameshin, , E.Pozhidaev, V.Saenko, S.Tumkovskiy,
6.	11.45-12.00	Analysis of the Prospects for the Use of an Optical Displacement Sensor for Monitoring the Railroad Track	Vladimir Starostenko Alexander Tuv Sergei Polesskiy
7.	12.00-12.15	Features of the Implementation of the Extremal Filtration Method in the Distributed Optic-Fiber Temperature Sensor	Ivan A. Ershov, Oleg V. Stukach, Nina V. Myasnikova
8.	12.15-12.30	Numerical electrodynamic modeling by the SBR method using GPU for radio planning tasks of telecommunication systems.	Kruglov Alexander; Klimov Konstantin
9.	12.30-12.45	In-Motion Calibration and Testing of MEMS Sensors Using a Reference Inertial Satellite Navigation System	Alexander Chernodarov Andrew Patrikeev
10.	12.45-13.00	Modernization of the device for assisting visually impaired people for positioning in space	K. A. Palaguta V. G. Bebenin N. V. Grunenkov E. V. Pikalov
11.	14.00-14.15	Analysis of the Propagation of a Short Radio Pulse in Media with Negative Permittivity	Kirill Konov, Victor Perfilyev
12.	14.15-14.30	Design of Functional Networking Components as Elements of an Industrial Ecosystems	Valery A. Kokovin Victor V. Skvortsov Alexander A. Evsikov Saygid U. Uvaysov Vladimir I. Diagilev Aida S. Uvaysova
13.	14.30-14.45	Design and Implementation of PIR sensors	Valery A. Kokovin Alexander N. Sytin

			Alexander A. Evsikov Saygid U. Uvaysov Aida S. Uvaysova
14.	14.45-15.00	Indirect monitoring of unauthorized activity in the electronic components of a computer system	Kiya Bushmeleva, Anton Nikiforov, Taras Gavrilenko
15.	15.00-15.15	Construction and calibration of inclinometric systems with fluxgate and accelerometric sensors	Dmitry Milovzorov , Vasikh Yasoveev
16.	15.15-15.30	Experimental studies of temperature-controlled discharge characteristics and calculation of the heat generation rate of NMC type battery cells	A.N. Varyukhin, V.S. Zakharchenko, A.A. Osika, G.S. Ivanov, D.V. Zhuravlev, I.O. Kiselev, A.V. Geliev, A. N. Kim
Electronics Manufacturing Services (Poster session)			
1.	Automatic solution of a multidimensional system with XY differentiation of equations of the equivalent radius of ellipses for identification of gold nanoparticles on dielectrics		V.M. Emelyanov , T.A. Dobrovolskaya, V.V. Emelyanov
2.	A Method for Transmitting Information in Conditions of Excess of the Interference Level over The Useful Narrowband Signal		Nikolay Grachev Dmitrii Artamonov
3.	Investigation of the Characteristics of the Transient Electrical Resistance of Contacts in the Designs of Radio Electronic Devices in the Conditions of the Formation of Contact Radio Interference		Nikolay Grachev, Alexander Andryukhin
4.	Genetic algorithms in the matrix arrangement of elements in blocks on a crystal model		Vladislav Ivanovich Danilchenko Yevgenia Vladimirovna Danilchenko Viktor Mikhailovich Kureichik
5.	Understanding join strategies in distributed systems		Yevgeniya Tyryshkina
6.	Investigation of the robustness of nanoelectronic structures based on resonant tunneling elements		Bondarev A.V. Efanov V.N.
7.	The Client-side System for Management of the Smart Home Climate Control System		Ildar Nigmatzyanov Ivan Yatsenko Danila Petin Alexey Karmanov
8.	Simulation of a Measuring Generator with a Prescribed Electrical Power Based on a Controlled Voltage Source and an Analog Voltage Multiplier		Alexey Demin Diana Pashali Oxana Yushkova

Electromechanical energy converters April 27, Tuesday			
1.	15.30-15.45	Maxwellian electromechanics – the path to create a new type of electromechanical energy converters with unique capabilities	Vladimir Livshits
2.	15.45-16.00	Electrical engineering Enterprise's architecture modeling as a basis for its transformation into Industry 4.0	Julia Sharonova, Nina Zvereva, Tatyana Didyk, Vitaly Martynov
Electromechanical energy converters (Poster session)			
1.		Analysis of functional parts and technological software of the control device for a two-phase synchronous electric motor	Boris Utkin, Nikolay Grachev, Dmitriy Babanov, Anna Magazinnikova
2.		Modern starter-generator electronics unit construction	Ismagilov Flur Rashitovich, Yamalov Ilnar Ildarovich, Vavilov Vyacheslav Evgen'evich , Farrakhov Danis Ramilevich , Urazbakhtin Ruslan Rustemovich,
3.		AC/DC converter integrated into the aircraft generator	Ismagilov Flur Rashitovich , Yamalov Ilnar Ildarovich, Obudenov Maksim Sergeevich, Sultanov Azat Maratovich, Faizova Radmila Rizovna, Urazbakhtin Ruslan Rustemovich, Levchenko Lev Igorevich, Zubkov Ilya Alekseevich,
4.		Modified method for controlling the switching of the starter-generator phases	Flyur Ismagilov , Ildus Sayakhov, Viacheslav Vavilov, Eugene Zharkov, Alexey Zherebtsov, Guzel Zinnatullina

Ensuring the Quality and Reliability of Electronics Devices April 28, Wednesday			
1.	10.00-10.15	Research of mathematical models for assessing the pumping flashtubes failure rate	Islam Kunizhev, Pavel Korolev, Ilya Ivanov, Kirill Sedov
2.	10.15-10.30	Development of the Dependability and Quality Assessment Method for the Design of Wireless Devices	Pavel Korolev, Ilya Ivanov, Anton Sosnin

3.	10.30-10.45	Structural and Objective Model for Providing a Given Class of Clean Rooms for Microelectronics	Valery I. Karakeyan, Andrei S. Riabyshev, Mikhail A. Gundartsev, Valeria P. Sharaeva, Nikolai R. Kharlamov
4.	10.45-11.00	Influence of Node's Reliability Indicators on the Wireless Sensor Network Operability	Konstantin Novikov Sergey Poleskiy
5.	11.00-11.15	The Method of Diagnostics of Radio-Electronic Means Based on the Analysis of Shock Effects by Means of Machine Learning Algorithms	Daniel E. Kondrashov Saygid U. Uvaysov Kiya I. Bushmeleva Petr E. Bushmelev
6.	11.15-11.30	Signal Shaping with Adjustable Parameters for Measuring Instruments	Galina Nikonova; Aleksandr Nikonov; Pavel Sak
Ensuring the Quality and Reliability of Electronics Devices (Poster session)			
1.		Automated System for Visual Non-Destructive Testing	Galina Nikonova, Aleksandr Nikonov, Yulia Zakirova, Valery Makarochkin
2.		Complex Method for Determining the Technical Condition of Electronic Devices Based on a Cognitive Model, Petri Nets and Artificial Neural Network	Anna Kolodenkova, Svetlana Vereshchagina
3.		Suppliers classification process at civil aviation company	Maria V. Andreeva
4.		Software and algorithmic complex for evaluating the efficiency of an automated optical-electronic system	Dmitry Lovtsov Dmitry Gavrilov

Computer-Aided Design and Production of Electron Devices April 28, Wednesday			
1.	11.30-11.45	An academic framework for IC physical design algorithms development	Dmitry Bulakh, Andrey Korshunov, Anton Datsuk
2.	11.45-12.00	Computer Thermal Modeling of Zeeman Laser Gyros in the Design Taking into Account the Creation of Digital Thermal Twins	Nikita Kuznetsov
3.	12.00-12.15	Client-server implementation in solving the problem of modeling the small spacecraft flight at low-earth orbit	V. Baleskin, A. Kosinov, L. Romanov, I. Motajlenko,
4.	12.15-12.45	Conservative Grids Used for the Two-Dimensional Electromagnetic Analysis	Konstantin Klimov
5.	12.45-13.00	Fast Emotion Recognition Neural Network for IoT Devices (Neural network model for fast facial emotion recognition)	S. Mikhaylevskiy, V. Chernyavskiy, V. Pavlishen, I. Romanova, R. Solovyev

6.	14.00-14.15	Integrated Approach to Combinatorial and Logic Graph Problems	Vladimir Kureichik, Daria Zaruba, Vladimir Kureichik Jr
7.	14.15-14.30	Managing developing Internet of things systems based on classification and predictive models and algorithms	Igor Lvovich, Yakov Lvovich, Andrey Preobrazhenskiy, Oleg Choporov, Yuriy Preobrazhenskiy
8.	14.30-14.45	On increasing the effectiveness of the "Risk-based approach" through the use of fuzzy logic methods	Chesalin A.N., Grodzenskiy S.Ya., Pham Van Tu
9.	14.45-15.00	Computing Nonlinear Polynomial Functions on FPGA-Class PLD Arrays	Sergei Shalagin
Computer-Aided Design and Production of Electron Devices (Poster session)			
1.	The Basics of Digital System Designs Simulation for Hardware/Software Joint Debugging		Alexander Ivannikov
2.	Methodology for choosing a method and instruments of measuring technological modes and parameters of synthesized coatings according to technical and economic indicators		Vladimir V. Antipenko, Pavel E. Golubkov, Ekaterina A. Pecherskaya, Timur O. Zinchenko, Gennadiy V. Kozlov, Artem V. Volik
3.	Research and predictive assessment of metric and topological parameters of parameters of structural and functional modules in computer -aided design systems for electronic means		Irina Safonova Boris Zhelenkov Yakov Goldovsky Alexandr Abramov
4.	Improving satellite ranging equipment engineering algorithm by utilizing an expert system		Andrey N. Zotov
5.	Synthesis of a fourth-order bandpass filter circuit with considering the technological limitations on microelectronic realization		N.N. Prokopenko, D.Y. Denisenko, N.V. Butyrlagin, A.E. Titov
6.	Tolerance Design of Active RC Filters		Alexander Khludenev
7.	Active fourth-order band-pass RC-filter with independent control of bandwidth and irregularity of frequency response		D.Y. Denisenko N.N. Prokopenko N.V. Butyrlagin
8.	Integrated Simulation of Electrical and Thermal Processes in Optoelectronic Devices Designing		Evgenii V. Kuznetsov Yury D. Golyaev Michail M. Zemlyanov Yury N. Kofanov Nikita E. Kuznetsov Svetlana Y. Sotnikova
9.	Microwave filters with superwide pass transmission band based on transmission lines with metamaterials application		A.E. Titov L.V. Cherckesova V.E. Chumakov N.V. Butyrlagin Yu. A. Shokova

SUMMING UP, MAKING OF DECISIONS, CLOSING CEREMONY.

April 30, 2021 at 10:00

<https://us02web.zoom.us/j/86199708856?pwd=Zj1WdDIrMGIEcFVPeDA2eHBUSWVqUT09>

Conference ID: 861 9970 8856

Access code: 919231

CONTACTS

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E-mail: i2t@diag.ru*

Contact information:

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