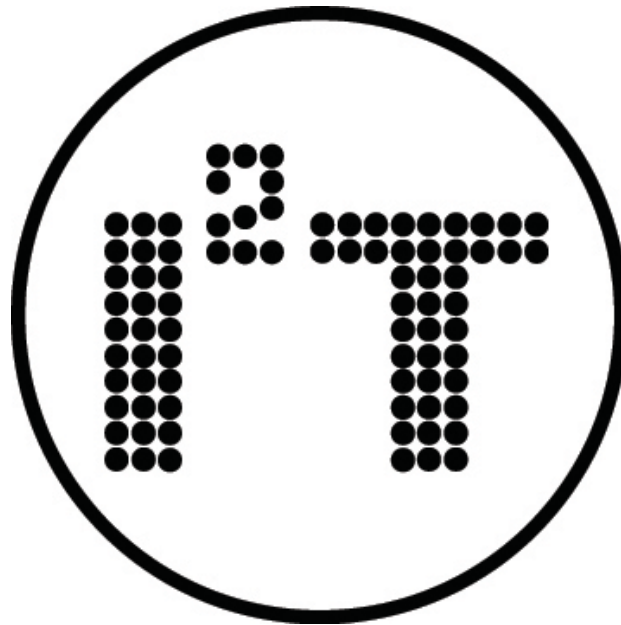


**Programme of the International
Scientific – Practical Conference
«INNOVATIVE INFORMATION
TECHNOLOGIES»**



**Prague – 2014
April 21-25**

K 32.97
UDC 681.3; 681.5
I 64

I 64 Innovation Information Technologies: Programme of the International scientific – practical conference. / Ed. Uvaysov S. U. –M.: HSE, 2014, 68 p.

ISSN 2303-9728

The programme of The Third International Scientific – Practical Conference is presented below. The Conference reflects the modern state of innovation in education, science, industry and social-economic sphere, from the standpoint of introducing new information technologies.

Digest of Conference materials is presented in 3 parts. It is interesting for a wide range of researchers, teachers, graduate students and professionals in the field of innovation and information technologies.

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ISSN 2303-9728

LBC 32.97
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Section 4

«INNOVATIVE INFORMATION TECHNOLOGY IN SOCIAL-ECONOMIC SPHERE »

«INTERNATIONAL FESTIVAL «DIGITAL FUTURE - 2014»

ROUND TABLES, WORKSHOPS, MASTER CLASSES

CONTACTS

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- **Chairman of the organizing committee - Saygid U. Uvaysov, tel.: +7 (926) -8080190**

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INTERNATIONAL FESTIVAL «DIGITAL FUTURE - 2014»



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Ganin AA - Deputy Director General of the Russian Agency for Development of the Information Society (RARIO), executive director of the Public Council Information Development "Rosinformrazvitie"









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**Welcoming word to the participants of the International scientific-practical conference
"Innovative Information Technologies" from the professor, doctor of Technical
Sciences, academician, laureate of the Russian Federation Government, director and
supervisor MIEM HSE
Tikhonov Alexander Nikolaevich.**



Dear participants of the 3rd international scientific and practical conference "Innovative Information Technologies"!

I am very pleased to welcome all of you in our key working session, which brings together professionals in the field of innovation and information technology - so important base for the development of scientific and industrial potential in all spheres of human activity.

Today, a new generation of IT solutions converts the information into a strategic asset, allowing reduction of costs without sacrificing quality of service, and without stifling creativity and efficiency of the workforce. These technologies help organizations to reduce risks, improve safety and reduce transaction costs of business development. Implementation of these solutions has become an important foundation for the development of science and technology, education and the economy in general.

In this context, the 3rd international scientific and practical conference "Innovative Information Technology" is an important working tool for solving the problems faced by a variety of industries. It means, first and foremost, the acceleration of innovation processes in accordance with the objectives of the "Strategy of the Development of Education, Science and Technology in the Russian Federation", the development of intelligent process control systems, and ensuring the implementation of modern information systems. The comprehensive conference program provides Russian and foreign participants with the ample opportunity for mutual information and experience exchange, professional communication and stronger business cooperation.

I sincerely wish the organizers, participants and guests of the 3rd international scientific and practical conference "Innovative Information Technology" the great success on the way of finding innovative solutions facing new challenges, and good luck in establishing productive business contacts!

A handwritten signature in blue ink, appearing to read 'A. Tikhonov', written in a cursive style.

Tikhonov A. N.

Welcoming word to the participants
of the 3rd international scientific and practical conference
"Innovative Information Technologies"

Leonid Anatoljevich Gamza

Director of the Russian Center for Science and Culture in Prague



Dear Organizers, Dear Participants, and Dear Guests of the 3rd international scientific and practical conference "Innovative Information Technologies"!

Thank you very much for the opportunity to join the conference, which has been dedicated to innovative information technologies and their exploitation for building an educational platform in Russia and abroad.

We are all aware that improvement in management education using advanced information technology is one of the most important factors in the progressive development of sustainable economy and society as a whole.

Co-operation between governments and research, innovation and education institutions in different countries of the world has been developing differently and depends on variety of factors. Major achievement of this conference, held in Prague for the third time, consists in the fact that it puts together Russian government and municipal authorities, Russian public organizations, and Russian higher educational institutions with the same ones coming from different foreign countries. I believe that together we will be able to share experience, develop and deepen the theoretical foundations of research in order to harmonize various scientific approaches, and we will overcome so far fragmented scientific knowledge in the field of innovative information technology.

The new recommendations for further educational reforms based on extensive exploitation of information technology innovations, are going to be the most important outcome of the conference.

I wish the organizers and participants of the scientific and practical conference "Innovative Information Technologies" a lot of success and enjoyment from their fruitful work.

L. A. Gamza

Dear participants of the conference "Innovative Information Technologies" (I2T)!



The current information society has been characterized by high level of information and innovation technologies that are being intensively used by people, businesses, and governments. The economic development has been more and more conditioned by intellectual activity, higher technological level of production and by implementation of new innovation information technologies.

The international experience clearly shows that innovation information technologies have become an engine to the socio-economic development of many countries, and that free access of people to information is a top priority of the governments.

Without comprehensive and coordinated activity of the government agencies, education institutions, commercial enterprises and citizen's initiatives, it would not be possible to reach a high level of innovation and information platforms in Russia nowadays.

Wide development and implementation of innovation information technologies is not only a major task of these days, but it has become a necessity for the development of modern manufacturing, that would be able to meet new market challenges.

It becomes a top priority, in the medium term perspective, to take advantage of the existing scientific and technical potential, and secure a dignified position of Russian Federation within leaders of global information society.

I wish all participants of the conference "Innovative Information Technologies" great success and a lot of productive work.



V. N. Vasiliyev

Rector of St. Petersburg National Research University of Information, Technologies,
Mechanics and Optics
Vice-President of Russian Rector Association
Vice-Chair of The Higher Education Attestation Commission
Corresponding Member of Russian Academy of Sciences and Russian Authors' Society
Laureate of the Russian State Award
Professor

With the great achievements in the last we open path to the future!

Dear friends !



Agilent Technologies company is pleased to welcome you to III international scientific and practical conference "Innovative Information Technologies"!

Agilent Technologies - the world's premier measurement company, working in the area of communications, electronics, biotechnology, diagnostics and chemical analysis.

Currently, the company Agilent Technologies provides the broadest range of measurement and control solutions, including equipment for radio measurements (signal generators, signal analyzers, network analyzers), oscilloscopes and general purpose equipment (multimeters, pulse generators, data acquisition systems, power supplies, logic analyzers), solutions for design and simulation (including solutions for automation development of electronic devices, solutions for the design of high frequency / mixed integrated circuits, for electromagnetic modeling solutions passive three-dimensional structures of arbitrary shape, solutions for simulating antennas, etc.), and solutions for telecommunications testing.

The year 2014 will become an important milestone in the history of Agilent Technologies. In November, the Electronic Measurement Agilent - founded in 1939 by B.Hyulettom and D.Pakkardom - will transform into an independent company Keysight Technologies. The main idea of the founders, however, will remain unchanged - our commitment to the product quality, our commitment to be the first in the development of advanced technologies and solutions, and our commitment to you, our customers.

Having established an independent company, we are going to concentrate on electronic measurements and we will grow even more rapidly as the needs and key market trends of electronic measurements will be the key priority. Our plans and product range will remain the same, we will retain our intellectual property, patents and specialized chips based on our own design. Our research laboratories will continue in research and development of advanced tools and testing methods.

We will continue our work on the certification of equipment, on translation of user manuals, user interfaces and other information materials. In 2014, in Russia, in addition to the Moscow branch will open 4 regional offices - in Siberia, Volga, Southern and North- West Federal District. We will extend our capacities in the service center providing the repair, inspection and calibration of instruments.

My colleagues and I thank you for choosing our products, and we will be always happy to assist you in finding the optimal solutions and reaching your goals.

Sincerely,

Galina Smirnova
General Director of the Russian branch Agilent Technologies



Photo from official site (<http://www.mcc.rsa.ru/>)

Alexander Skvortsov (Russia), Oleg Artemyev and Steven Swanson (USA), Mikhail Tyurin (Russia), Koichi Wakata (Koichi Wakata) (Japan), Rick Mastracchio (USA)

Dear participants of the 3rd international scientific and practical conference "Innovation Information Technologies" (I2T)!

On behalf of the crew of the International Space Station we warmly welcome all of you!

The innovative information technologies have become very attractive over last several years. This industry has been developing very rapidly, its growth outstrips the most courageous expectations. Producing innovative products in the area of information technologies does not only create a huge space for research and discovery of new ideas, but also stimulates progress in other areas.

Introduction of modern IT in education, science, industry, economy and social sphere provides unprecedented opportunity for their development.

We wish the conference participants very interesting and productive work, fruitful discussions, mutual understanding and success in achieving their goals!

CONFERENCE SCHEDULE

EVENTS	21.04.14 Mon	22.04.14 Tue	23.04.14 Wed	24.04.14 Thu	25.04.14 Fri
Arrival and accommodation of participants	All day long				
Registration of participants		From 09.00 to 10.00			
The Conference Opening and plenary session		From 10.00 to 18.00			
Section meeting “IIT in Education”			From 10.00 to 18.00		
Section meeting “IIT in Science”			From 10.00 to 18.00		
Section meeting “IIT in Industry”				From 10.00 to 18.00	
Section meeting “IIT in Economics and Social sphere”				From 10.00 to 18.00	
International Festival “DIGITAL FUTURE 2014”			From 10.00 to 14.00	From 10.00 to 14.00	
Round tables			From 15.00 to 18.00	From 15.00 to 18.00	
Final meeting, summarizing and making conclusions					From 10.00 to 12.00

Lunch break - From 14.00 to 15.00

OPENING CEREMONY

April 22, 2014 at 10:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

- **Greeting remarks by the Scientific leader of academician AN Tikhonov**
- **Greeting remarks by the Extraordinary and Plenipotentiary Ambassador of the Russian Federation in the Czech Republic Kiselev S.B.**
- **Greeting remarks by the RCNK leader Gamza L.A.**
- **Greeting remarks by the representative of the Government of the Russian Federation Sedoykin S.V.**
- **Greeting remarks Deputy Representative of the State Duma Committee on Education Berulava M.N.**
- **Greeting remarks by the Chairman of the Council of Rectors of St. Petersburg, the deputy chairman of VAK Vasiliev V.N.**
- **Greeting remarks by the Representatives of the Czech Republic**
- **Greeting remarks of Russian trade representative in Austria Stecenko Yur.P. and Turov A.V. in Czech Republic**
- **Greeting remarks by the president of Top Industrial Managers for Europe Skalicky Peter**
- **Greeting remarks by the president of the International DAAAM network of academic and scientific cooperation Branko Katalinic**
- **Greeting remarks by the conference sponsors EC-Leasing (Schmid A.V. General Manager), Agilent Technologies (Revyakina I.A., Sector Manager for the development of educational programs), National Instruments (Ananin A.A., Head of Education Projects), Nauka-soft (Khalyutin S.P., General Manager)**
- **Greeting remarks by the General director IBM East Europe / Asia Korniliev K.G.**
- **Greeting remarks by the board member of Concern " Sozvezdie" Simonov V.V.**
- **Greeting remarks by the media: newspaper scientific community "Search" (Ponarina E., First Deputy Editor), Newspaper "Souznoe Veche" (Zemlyanskikh T.N., editor in chief), publishing "BINOM. Laboratory of Knowledge "(Zaharchenko E.A., Executive Director).**
- **Greeting remarks by the head of RARIO Aygistov A.A.**
- **Greeting remarks by the Chairman of the Organizing Committee Uvaysov S.U.**

PLENARY SESSION

April 22, 2014 at 11:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Chairman:

Tikhonov A.N.

Scientific Secretary:

Korobova K.V.

1. **Shmid A.V.**
Moscow, EC-leasing
STAFF TRAINING AND EDUCATION FOR NEW ECONOMICS: WHAT TO TEACH? HOW TO TEACH?
2. **Tikhonov A.N.**
Moscow, HSE
THE PROBLEMS OF THE OPEN E-LEARNING ENVIRONMENT
INFRASTRUCTURE DEVELOPMENT ON THE NATIONAL'S LEVEL.
3. **Kagan M.Yu., Abrameshin A.E.**
Moscow, P.L. Kapitza Institute for Physical Problems Russian Academy of Sciences, NSE
PHYSICAL GROUNDS OF THE INFORMATION STORAGE AND RECORDING IN MAGNETIC NANOCCLUSERS
4. **Shchur L.N.**
Chernogolovka, Russian Academy of Sciences Landau Institute for Theoretical Physics
TOWARDS EXAFLOPS MONTE CARLO COMPUTING
5. **Filippov A.N.**
Moscow, Agilent Technologies
TEST AND MEASUREMENT EQUIPMENT REVIEW OF AGILENT TECHNOLOGIES COMPANY
6. **Ananin A.A., Dubatov A.V., Krivozubov P.A.**
Moscow, National Instruments
SDR TECHNOLOGY FOR EDUCATION IN FIELDS OF RADIOPHYSICS AND RADIO ENGINEERING
7. **Agnello S., Holtmann P.**
Milwaukee, Exemplar Global
PROFESSIONAL CERTIFICATION AS A STRATEGY FOR MEETING THE ELECTROMAGNETIC COMPATIBILITY CHALLENGE
8. **Krukier L., Muratova G.**
Rostov-on-Don , Southern Federal University
SOCIAL NETWORKING IN EDUCATION
9. **Solovev D. B., Shadrin A. S.**
Vladivostok, Far Eastern Federal University

THE MULTI-LANE SIMULATOR FOR TRAINING OF SPECIALISTS ON
CONTROL OVER RADIOACTIVE MATERIALS

10. **Shalkovsky A.G., Kuptsov S.M.**
Moscow, HSE
INFORMATION MODEL OF REMOTE HEALTHCARE MONITORING SYSTEM
11. **Koubalíková J.**
Prague, University of Economics
UNIVERSITIES IN CLOUD
12. **Pozdneev B., Sosenushkin S., Sutyagin M.**
Moscow, Moscow State Technological University “STANKIN”, Corporate Institute of
“Gazprom”
E-LEARNING: QUALITY BASED ON STANDARDS
13. **Tikhomirov N.P., Tikhomirova T.M.**
Moscow, Plekhanov Russian University of Economics
ESTIMATION OF THE EFFECTIVENESS OF CANCER DIAGNOSTICS AS A
MEASURE OF PROTECTION OF POPULATION AT LOW RADIATION DOSES
14. **Avakyan A., Kopnjonkova M.**
Moscow, JSC "INSTITUTE OF AIRCRAFT EQUIPMENT"
METHODS OF OPERATIONAL STATE MONITORING FOR INTERFACE AND
COMPUTER PATHS OF AVIONICS SYSTEMS
15. **Gluhova O.E., Kolesnikova A.S., Slepchenkov M.M. , Savostyanov G.V.**
Saratov , National Research University SSU
NEW IT-SOLUTIONS FOR BREAKTHROUGH RESEARCH IN NANO- AND
BIOELECTRONICS
16. **Perelyayev S.E., Perelyaev D.S.**
Moscow, Moscow Institute of Electromechanics and Automatics
ON THE THEORY PARAMETRIZATION OF THE THREE-DIMENSIONAL
ROTATIONS GROUP ABSOLUTE RIGID BODY. METHODS AND APPENDICES

Section 1
INNOVATION INFORMATION TECHNOLOGIES IN EDUCATION

April 23, 2014 at 10:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Co-Chairs:

Lvov B.G., Ignatova I.G.

Scientific Secretary:

Panasik D.S.

- 1. Andreyeva, T.V., Chulkov V.A.**
Penza, Penza State Technological University
THE INFORMATION SYSTEM STRUCTURE OF MONITORING AND
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- 2. Erokhin, V.V., Eliseeva, E.V.**
Bryansk state university of a name of the academician I.G.Petrovsky
CAD/CAM/CAE-TEHNOLOGII IN MODELLING OF TECHNICAL OBJECTS
- 3. Zelenko, L. S., Shumskaya, E.A.**
Samara, SSAU
COMPLEX OF PROGRAMS FOR WORK WITH ELECTRONIC CONTENT IN
LMS MOODLE ENVIRONMENT
- 4. Semenova N.G., Krylov I.B.**
FSBEI HPE «Orenburg State University», Orenburg
THE APPLICATION OF MULTI-AGENT APPROACH BY THE DEVELOPING
OF INTELLIGENT TUTORING SYSTEM
- 5. Shagin V. L.**
Higher School of Economics, Moscow
JANUS:LEARN MATHEMATICS ONLINE!
- 6. Kamaev V.A, Isaev A.V, *Mironov A.Y.**
*Volgograd, Volgograd State Technical University; *Light Yar, Branch of the Moscow
State University of Technology and Management of Razumovsky K.G.*
ELECTROTECHNICAL LABORATORY
- 7. Isaev A.V., *Posdnyakov A.P., **Novochadov V.V.**
*Volgograd, Volgograd state technical university; *Volgograd, Volgograd state
university of architecture and building; **Volgograd, Volgograd state university*
DEVELOPMENT OF REGIONAL INFORMATION-EDUCATIONAL RESOURCE
CENTRE: PROJECT «INTEGRAL»
- 8. Isaev A.V., Gaydadin A.N.,**
Volgograd, Volgograd State Technical University
INDIVIDUALIZATION OF EDUCATION: TECHNOLOGY PROJECT

9. **Isayeva L.A. Feofanova, L.N., A.V. Isaev**
Volgograd, Volgograd State Technical University
DISTANCE EDUCATION: INTERACTIVE CONSULTANT
10. **Sukhova A.S., Selezneva I. G.**
Volgograd, Volgograd state technical university
COMPLEMENTARY STRUCTURE OF QUEST TECHNOLOGIES IN LEGAL EDUCATION
11. **Avdeuk O.A., Lemeshkina I.G., Pavlova E.S., Prikhodkova I.V., Skvortsov M.G.**
Volgograd, Volgograd State Technical University
TEACHING OF INFORMATION TECHNOLOGY IN TECHNICAL UNIVERSITY
12. **Gostevskaya O.V., Avdeuk O.A., Lemeshkina I.G., Kurapin A.V.**
Volgograd, Volgograd State Technical University
GENERAL APPROACHES TO TEACHING BASICS OF ALGORITHMS FRESHMAN OF TECHNICAL UNIVERSITY
13. **Pavlova E.S., *Smykovskaya T.K.**
*Volgograd, Volgograd State Technical University; *Volgograd State Social Pedagogical University*
PREPARATORY PROCESS FOR PUPILS TO THE OLYMPIADS IN INFORMATICS
14. **Litovkin R. V., **Naumov V. Yu., *Avdeuk O.A.**
*Volgograd, *Volgograd State Technical University; **Volgograd economic-College of Technology*
IMPLEMENTING PRACTICE-ORIENTED APPROACH IN EDUCATION
15. **Dorodnikov N.A. ** Klyuyeva E.G. , ***Dorodnikova I.M.**
*St. Petersburg, ITMO; ** Volgograd, Lyceum № 3; ***Volgograd, Volgograd State Technical University*
FORMATION ICT COMPETENCIES OF TEACHERS
16. **Dorodnikova I.M.,* Rumyantseva T.V., * Klyuyeva E.G.**
*Volgograd, Volgograd State Technical University, * Volgograd, Lyceum № 3*
INTEGRATED EDUCATION AS A MEANS OF INCREASING OF INFORMATIVE ACTIVITY OF PUPILS
17. **Klyueva E.G. * Shvarts W.A. Dorodnikova I.M.**
*Volgograd, Volgograd state technical university, * Municipal educational institution lyceum No. 3, Volgograd*
INTERNET RESOURCES IN PROJECT ACTIVITY IN USE PUPILS
18. **Bakshaeva N.V.**
Cheboksary, “I.J. Yakovlev Chuvash State Pedagogical University”
INNOVATIVE APPROACHES TEACHING SOCIAL INFORMATICS IN SCHOOL
19. **Salin, V.S., Papshev, S.V., Sytnik, A.A.**
Saratov, Saratov State Technical University

AN APPROACH TO FACTS EXTRACTION AND SEMANTIC ANALYSIS OF EDUCATIONAL WEBSITES

- 20. Andreevskaya T.M., Bogachyov K.A.**
MIEM HSE Electronics and Telecommunications Department
METHOD OF PRACTICAL AND LABORATORY STUDIES OF THE CIRCUIT DESIGN DISCIPLINES USING SYSTEMS OF MATHEMATICAL AND CIRCUIT SIMULATION
- 21. Bershadsky A.M., Lushnikov A.V.**
Federal State Educational Institution of Higher Professional Education Penza State University
METHOD OF CONSTRUCTION LEARNING PATHS IN VOCATIONAL EDUCATION
- 22. Derugin I.A.**
Balakovo, Balakovo Institute of Technics, Technology and Management
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- 23. Ershov I.M.**
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- 79. Kvach, T.**
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- 80. Kochetkova LN**
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- 82. Guzairov M.B., Martynov V.V., Filosoza E.I.**
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- 83. Nadezhdin Ye. N., *Smirnova Ye. Ye.**
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- 84. Khenner E.K.**
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- 85. Naseykina L. Sokolova I.**
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- 87. Timoshenko A.**
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University of education informatization of Russian education academy
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- 95. Robert I. V.**
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Section 2
INNOVATIVE INFORMATION TECHNOLOGIES IN SCIENCE

April 23, 2014 at 10:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Co-Chairs:

Kamaev V.A., Kechiev L.N.

Scientific Secretary:

Uvaysova S.S.

- 1. Anop M., Mikhalichuk V.**
IACP FEB RAS, FEFU, Vladivostok
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- 7. Ivanov V.K, Palyukh B.V., Sotnikov A.N.**
Tver, TSTU; Moscow, JSCC RAS
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*Moscow, Experimental Studio "NaukaSoft"; *Moscow, MIEM HSE*
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- 15. Egunov V.A., Abed O.A.**
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- 16. Ivo Lazar**
European Polytechnic Institute, Kunovice, Czech Republic
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35. **Gretsova H. V., Gretsov M. V.**
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36. **Avdeuk O.A.**
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- 39. Krokhaliev A. V., Kharlamov V. O., Avdeyuk O. A., Prikhod'kov K. V., Savkin A. N., Kuz'min S. V., Lysak V. I.**

Volgograd, Volgograd State Technical University

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- 40. Krokhaliev A. V., Kharlamov V. O., Avdeyuk., O. A., Prikhod'kov K. V., Savkin A. N., Kuz'min S. V., Lysak V. I.**

Volgograd, Volgograd State Technical University

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**Volgograd, Volgograd State Technical University*

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- 42. Vasich K.N., Gretsova N.V.**

Volgograd, Volgograd state technical university

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- 43. Stolyarchuk A.S., Vdovenko A.V., Korobov A.V., Tishenko P.O.**

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- 44. *Shilin A.N., *Shilin A.A., **Petrenko A.R.**

**Volgograd, Volgograd State Technical University, **Volzhsky, National Research
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Section 3
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April 24, 2014 at 10:00
(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

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Technological Institute of Service (branch) Don State Technical University, Stavropol
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- 13. Kechiev, L.**
Moscow State Institute of Electronics and Mathematics Higher School of Economics
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- 14. Khashan T.S., Tkachenko V.N., Manuilenko R.I.**
Institute of Applied Mathematics and Mechanics, NAS of Ukraine (IAMM NASU), Ukraine, Donetsk
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- 15. Uvaysov, S. U.,*Diagilev, V. I.,*Kokovin, V. A.**
*MIEM HSE, *The International University “Dubna” of Nature, Society and Man, Branch “Protvino”*
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- 16. Nedopeka, A., Bushmeleva, K.**
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- 17. Kolobova, EA**
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- 18. Akhmetgareyev, R.O., Bushmeleva, K.I.**
Surgut State University
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- 19. Soloshenko, A.N., Orlova, Yu.A., Rozaliev, V.L.**
Russia, Volgograd, Volgograd State Technical University
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- 20. Grigoryev, A.V. Drzhevetsky, A.L. Bannov, V.Ya., Trusov, V.A., Kuznetsov, S.V.**
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- 21. Grigoryev, A.V. Drzhevetsky, A.L. Bannov, V.Ya., Trusov, V.A., Kuznetsov, S.V.**
Penza state university
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- 22. Mescheryakov, O.A.**
Penza State University, Penza, Russia
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- 23. Astafurova, O.A., Salnikova, N.A., Astafurov V.V.**
Russian Presidential Academy of National Economy and Public Administration, Volgograd branch
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- 24. Finogeev, A.G., Dilman, V.B., Finogeev, A.A., Nefedova, I.S., Finogeev, E.A**
Penza, Russia, Penza State University
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- 25. Andrianov, A.**
ZAO “EC-Leasing”, St. Petersburg State University
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- 26. Karapuzov, M., Polesskiy, S.**
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- 27. Griбанov, A.D., Kozlov, M.K., Guseva, N., Nikitin, V.S.**
National research university (Moscow Aviation Institute), Moscow, Russia
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- 28. Kokin, N.N.**
Moscow, HSE

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29. **Lifanov, I. P.**
Russian Federation, Moscow, Moscow Aviation Institute (State University of Aerospace Technology)
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30. **Khrzhanovskaya, O.***, **Tyukov, A. ***, **Shcherbakov, M. ***, **Brebels A.,**** , **Shevchenko, S. *****
*Volgograd State Technical University, Volgograd Russia, ** Katholieke University Leuven, Geel Belgium, ***Kharkov Technical University, Kharkov Ukraine*
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31. **Zhuk, S.¹**, **Tyukov, A.¹**, **Kamaev, V.¹**, **Brebels, A.²**, **Shevchenko, S.³**
¹ VSTU, Volgograd Russia, ² KULeuven, Geel Belgium, ³ KTU, Kharkov Ukraine
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32. **Akbashev B., Baluk N., Mikheyev V.**
Moscow State Institute of Electronics and Mathematics Higher School of Economics
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33. **Naykhanova, I.V.**
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34. **Tarantseva, K.R., Trazanov, A.V.**
Penza State Technological University, Penza, Russia
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35. **Denisov, M.V., Kizim, A.V., Davydova, S. V., Davydov, D. A., Kamaev, V.A.**
Volgograd, VSTU
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36. **Golyaev, Yu.D., Solovyova, T.I., Dronov, I.V., Ivanov, M.A., Kolbas, Yu.Yu.**
Moscow, JSC “RDI “Polyus” named by M.F. Stelmakh”, MIEM NRU HSE
ZEEMAN LASER GYRO IN QUASIFOURMODE REGIME
37. **Zorina, E.V.**
National Research Tomsk Polytechnic University, Tomsk, Russia
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- 38. Zorina E.V.**
National Research Tomsk Polytechnic University
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- 39. Uvaysova S.S., Uvaysova A.S., Lvov B.G., Zhurkov A. P.,**
Moscow, HSE, BMSTU
ENSURE MAINTAINABILITY DIRECTION FINDER POSITIONS
- 40. Kurbanmagomedov, K. D.**
Moscow State Open University named by V. S. Chernomyrdin Institute (branch) in Makhachkala, Russia
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- 41. Arzybaev, A.**
Blagonravov Institute of Mechanical Engineering, Russian Academy of Sciences, Moscow, Russia
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- 42. Artyukhova, M.**
Moscow, NRU HSE MIEM
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- 43. Barabanova, E.A, Barabanov, I.O., Maltseva,N.S., Kudryavtseva,O.V.**
Astrakhan State Technical UniversityAstrakhan, Russia
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- 44. Belousov, A.V., Glagolev, S.N., Koshlich, Yu.A., Shevkunov, A.A.**
Belgorod, BSTU named after V.G. Shukhov
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- 45. Bushmelev, P., Plyusnin, I., Bushmeleva, K., *Uvaysov, S.**
*Surgut, Surgut State University, *Moscow, MIEM HSE*
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- 46. Shevchuk, V.P., Gayderzhiy, D.S.**
NRU MPEI; ENEX (JSC)
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- 47. Grodzenskiy, S.Ya., Kalacheva, E.A.**
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- 48. Volkova, I.Y., Grodzenskiy, Ya.S. , Chesalin, A.N.**
Moscow , MSTU MIREA
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- 49. Grodzenskiy, Ya.S., Shilov, D.V., Volodina, M.V.**
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- 50. Guzhov, V., Ilinykh, S., Sazhin, I., Kabak, E.**
Novosibirsk, Novosibirsk State Technical University
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- 51. Karasev, A.A., Starykh, V.A.**
Moscow, National Research University Higher School of Economics
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- 52. Domracheva A.B.**
Moscow, BMSTU
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- 53. Dutka, M., Bushmeleva, K.**
Surgut State University
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- 54. Zhadnov, V.V.**
Moscow, National Research University "Higher School of Economics"
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- 55. Andreev, S.V., Klyuchnikov, A.V., Mikhailov, E.F., Lysykh, A.V.**
Snezhinsk, RFNC-VNIITF named after Academician E.I. Zababakhin
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- 56. Molodtsova, Yu.V.**
PENZGTU
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- 57. Petrosyants, K.O. Kharitonov, I.A. Kozhukhov, M.V. Sambursky, L.M.**
*Moscow Institute of Electronics and Mathematics of National Research Institute
Higher School of Economics*
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AND MOSFET MODELS WITH ACCOUNT FOR RADIATION INFLUENCE

- 58. Belov, A.V., Gavrichenkov, A.E., Lopatkin, D.V., Soloviova, T.I., Akimtsev,* Yu.V.**
*Moscow, MIEM NRU HSE, *Serpukhov, JSC "Serpukhov plant "Metallist"*
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- 59. Fomina, I.**
Open Joint-stock Company «MNIRTI»
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- 60. Lisova E.A.**
Togliatti, Volga State University of Service
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- 61. Mamontov A.V., Nefedov V.N., Simonov V.P.**
*Moscow Institute of Electronics and Mathematics, Higher School of Economics
(MIEM HSE)*
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- 62. Mamontov A.V., Nefedov V.N.**
*Moscow Institute of Electronics and Mathematics, Higher School of Economics
(MIEM HSE)*
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- 63. Alshanskaya T., Kostileva N.**
Togliatti, Volga Region State University of Service
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- 64. Palaguta, K. A.**
Moscow, MSIU
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- 65. Maksimyuk E.V., Mikshina V.S.**
Surgut, SurGU
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- 66. Nadeev A.F. , Ivanchenko A.Ya. , Rahimov D.R.**
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- 67. Krasnov, A. E., Saginov, Yu. L., Dishel, Yu. G., Lukyanova, N. O.**
Moscow, MSUTM named K.G. Razumovsky

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68. Krasnov, A.E, Feoktistova, N.A.

Moscow, MSUTM named K.G. Razumovsky

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69. Korolev P.S., Ivanov I.A, Uvaysov A.S., Lvov B.G.

Moscow, National Research University Higher School of Economics (HSE)

THE LABORATORY STAND FOR DIAGNOSING OF RADIO-ELECTRONIC EQUIPMENT ON THE EXAMPLE OF THE COMMON EMITTER AMPLIFIER

70. Kouzaev, G.A.

Norwegian University of Science and Technology, Trondheim, Norway, NO-7491

COMPUTER-AIDED DESIGN OF HYBRID QUANTUM-CLASSICAL INTEGRATIONS

71. Nikolaev P.V., Lyshov S.M., Ivanov I.A., Uvaysova S.S.

Moscow, HSE, BMSTU

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Section 4
INNOVATIVE INFORMATION TECHNOLOGIES IN SOCIO-ECONOMIC SPHERE

April 24, 2014 at 10:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Co-Chairs:

Tikhomirov N.P., Chetverikov V.M.

Scientific Secretary:

Artyukhova M.A.

- 1. Meshkov N. A.**
Moscow, National Research University Higher School of Economics
APPLICATION OF SELF-ORGANIZATION APPROACH FOR SOLVING THE PROBLEM OF FORECASTING IN AN INTELLIGENT MANAGEMENT SYSTEM OF INNOVATIVE DEVELOPMENT OF THE RUSSIAN MEDICAL-INDUSTRIAL COMPLEX IN THE INFORMATION SOCIETY
- 2. Lichman A.A.,* Lichman G. I.**
Moscow, Russian institute of agrarian problems and informatics named after A.A. Nikonov., Moscow*
Russian institute of mechanization, Moscow.
DESIGN OF THE INFORMATION TECHNOLOGIES FOR VARIABLE RATE APPLICATION OF FERTILIZERS
- 3. Medennikov V.I., Muratova L.G., Tukhina N.Yu.**
Moscow, All-Russian Institute of Agrarian Problems and Informatics named after A.A. Nikonov
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- 4. Romanenko I.**
All Russian Research Institute of Agricultural Problems and Informatics, Moscow, Russia
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- 5. Galakhov, I., Ageykin, M,**
EC-leasing, Moscow
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- 6. Buharbayeva, L. Y. Egorova, Y. V., Davletova, Z. A.**
Ufa state aviation technical university
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- 7. Doroshenko M.**
Institute for Statistical Studies and Economics of Knowledge, National State University Higher School of Economics, Moscow

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- 8. Veber, J., Jirinova, K.**
University of Economics, Prague
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- 9. Ezhov G., Klemashev N.**
EC-leasing, Moscow
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- 10. Fionova L.R.**
Penza State University
URGENT QUESTIONS IN WORK OF GOVERNMENT BODY'S WITH ELECTRONIC DOCUMENTS
- 11. Artamonov Ivan**
Department of Informatics and Cybernetics, Faculty of Informatics, Accounting and Service, Baikal State University of Economics and Law
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- 12. Semenikhina I.Y.**
Novosibirsk State Technical University,
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- 13. Kultsova M.B., Sadovnikova N.P., Zhukova I.G., Navrotsky M.A., Ryaskov A.S.**
Volgograd, VSTU
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- 14. Kiryushina A.**
Moscow, EC-leasing JSC
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- 15. Krasavina, A.K.**
Moscow, MIEM HSE
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- 16. Lê Xuân Quyền, Kravets, A.G., Korotkov, A.A.**
Volgograd, VSTU
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- 17. Orlov R. A., Orlova O. B.**
Saint-Petersburg, SUAI
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- 18. Zavyalova D.A.**
Penza, PenzGTU
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- 19. Ribina E.G.**
Russia, Moscow, MSU of M.V.Lomonosov
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- 20. Savin I.I.**
Moscow, MIEM HSE
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- 21. Semina E.V.**
Moscow, Russian University of Economics it. G.V.Plehanova
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- 22. Sharafutdinova E.N.**
Russia, Novosibirsk State Technical University
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- 23. Shmelev Y.**
Astrakhan Technical Lyceum
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- 24. Soroko, E.L.*, Voronin, V.M.****
National Research University Higher School of Economics, Federal State Statistics Service***
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- 25. Maryna Getman**
Donbass State Engineering Academy, Ukraine
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- 26. Goryunova V., Goryunova T., *Kuhtevich I.**
*Penza, PenzGTU * Penza, PIUF*
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- 27. Goryunova T.I.**
Penza, PenzGTU
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- 28. Goryunova T.I.**
Penza, PenzGTU
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- 29. E.A. Badeeva*, T.I. Murashkina*, N.A. Hasanshina**, E.A. Shachneva****
**FSEI of HPE «Penza State University», ** FSEI of HPE «Penza State Technological University»*
THROUGH SYSTEM PLANNING SPECIES QUALITATIVE PERFORMANCE MANAGEMENT UNIVERSITY
- 30. Vishnevskaya N.G., Galumyan L.E.**
BashGU, Ufa
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- 31. Gubina A.V.**
Russian State Agricultural University Moscow Timiryazev Agricultural Academy
PROBLEMS OF LANDSCAPING IN MOSCOW: NEW OPPORTUNITIES IN THE SETTING OF INFORMATION TECHNOLOGY APPLICATION
- 32. Galimova A.S., Masalimova G.R.**
Institute of Economics, Finance and business, Bashkir State University, Ufa
PROBLEMS OF FORMATION OF LABOR POTENTIAL OF THE REGION
- 33. Valerij A. Kamaev, Aleksej V. Melikov**
FSBEI HPE Volgograd State Technical University, Penza Artillery Engineering Institute named after Chief Marshal of N.N. Voronov's Artillery of the Russian Federation Ministry of Defense
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- 34. Lovtsov D. A., Dementieva A.V.**
Moscow, Lebedev Institute of Precision Mechanics and Computer Engineering, Russian Academy of Science
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- 35. 1Arakelyan M.A., 1Golyandin A.N., 1,2Shabanov A.P.**
Moscow, 1 IBS Group, 2 Institute of Informatics Problems of RAS
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- 36. Baranov A.V., Tagaev A.V.**
Rostov-on-Don, The South Russian Institute of the Russian Presidential Academy of National Economy and Public Administration

PRESENT STAGE OF E-GOVERNMENT DEVELOPMENT IN RUSSIAN
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- 37. Klochkova E.N., *Ledneva O.V.**
Moscow, Moscow State University of Economics, Statistics and Informatics;
**Moscow, NRU HSE, Synergy Moscow University of Industry and Finance*
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- 38. Kookueva V.V.**
Moscow State University of Economics, Statistics and Informatics (MESI)
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- 39. Tikhomirova T., Sukiasyan A.**
Moscow, Plekhanov Russian University of Economics
COMPARATIVE ANALYSIS OF THE RUSSIAN FEDERATION REGIONS
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- 40. Ilyasov B.G., Zakieva E.Sh., Filosoza E.I.**
Ufa, Ufa State Aviation Technical University
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- 41. Dolomatov M.Yu., Zhuravleva N.A., Martynov V.V., Filosoza E.I.**
Ufa, Ufa state aviation technical university
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- 42. Martynov, V.V., Filosoza, E.I., Sharonova, Yu.V.**
Ufa, USATU
TECHNOLOGY KNOWLEDGE MANAGEMENT IN THE FIELD OF OIL
PRODUCTION
- 43. Lyubovskaya, N. M.**
Moscow, MSUTM named K.G. Razumovsky
THE OIL PROCESSING DEVELOPMENT IN RUSSIA ON THE BASIS OF
CORPORATE FORSYTHE'S TECHNOLOGY
- 44. Aevskii V.V., Chetverikov V.M.**
Moscow, NRU HSE
RUSSIAN CREDIT RATE AND ARBITRAGE THEORY
- 45. Yastrebov A.P., Yastrebov V.A.**
Saint Petersburg State University of Aerospace Instrumentation
THE ROLE OF INTERNET - COMMUNICATIONS IN QUALITY CONTROL
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- 46. *Mukha, Yu.P., **Bezborodov, S.A., **Rusakov, S.A., *Avdeuk, O.A.**
**Volgograd , Volgograd State Technical University, **Volgograd , Volgograd State
Medical University*
CATEGORICAL REPRESENTATION OF THE MODEL OF THE KNEE

- 47. Gasanbekova,1Z.A., Isaeva,2Z. U., Aliev,3S. A.**
1Republican Cancer Clinic, 2LLC Medical center «Vash Doktor», 3Department of Oncology AD DSMA, Makhachkala, Republic Of Dagestan, Russia
OPTIMIZATION OF TREATMENT METHODS OF BACKGROUND AND PRECANCEROUS DISEASES OF THE CERVIX UTERI IN OUTPATIENT GYNECOLOGY
- 48. 1Shklovsky, B.L., 1Popov, A.P., 1Baksheev, V.I.,2Uvaysova, K.U., 3Isaeva, Z.U.**
FSBE “3 CMCH of A.A. Vishnevskiy” RF DM, Krasnogorsk, Russia; 2 Municipal clinical hospital №71, Moscow, Russia; The medical centre «Your doctor», Makhachkala, Russia
RESULTS OF TWO YEAR EDUCATION PROGRAM OF PATIENTS WITH CORONARY HEART DISEASE, COMBINED WITH TYPE 2 DIABETES MELLITUS
- 49. Gasanbekova, 1Z.A., Aliev, 2S.A.**
1Republican Oncology Center, 2Department of Oncology DSMA, Makhachkala, Republic of Dagestan, Russia
OPTIMIZING TREATMENT OF TROPHOBLASTIC DISEASE
- 50. Aliev, S.A., Alieva, M.S.**
Department of Oncology DSMA, SBI RD SCA "Dagestan Thoracic Surgery Centre", Makhachkala, Republic of Dagestan, Russia
MULTILEVEL ANALYSIS ONCOSURGERY ASSISTANCE AND IMPROVEMENT OF ONE-STAGE RADICAL SURGERY ON THE ESOPHAGUS AND GASTRIC CARDIA.
- 51. Abdulkerimova Z. Ya.**
Daghestan State University
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- 52. Zijadova D. Z.**
Daghestan State University
YOUTH EXTREMISM IN THE NORTH CAUCASUS – THREAT OF SAFETY OF THE RUSSIAN STATE
- 53. Kryuchkov V. G.**
The department of economic security and the opposition of corruption of Russian Interior Ministry department in Omsk region
FEMALE EXTREMISM IN THE NORTH CAUCASUS AS – EXTREME MANIFESTATIONS OF ACTIVITY OF CRIMINAL COMMUNITIES OF EXTREMIST NATURE
- 54. Magomedov K.R.**
Daghestan State University

ABUSES OF POWERS OF OFFICE AND EXCESS OF POWERS OF OFFICE
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55. Ismailova P. U.

Moscow

CRIMINAL POLLUTION OF ATMOSPHERIC AIR – THREAT OF ECOLOGICAL
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56. Murzayeva D. G.

Daghestan state university

CRIMINOLOGICAL PROBLEMS OF VIOLATIONS OF THE RULES OF LABOR
PROTECTION

57. Rabcevich, A.A

BushGU, Ufa

MODERN TRENDS OF INVESTMENT: MACROECONOMIC ANALYSIS,
MODELING, REGULATION

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"DIGITAL FUTURE 2014!"

April 23-24, 2014 at 10:00
(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

MFEB EVENTS PROGRAMME 2014:

Master Class

April 23, 2014 at 10:00

Master: Veroninka I. Yarnikh

Adviser to the head RARIO on managerial competencies, certified specialist in management of compliance (Switzerland)

**EFFECTIVE COMMUNICATIONS AND COMPLIANCE MANAGEMENT WITHIN
THE INFORMATION SOCIETY**

Round table

April 23, 2014 at 12:00

Master: Veroninka I. Yarnikh

Adviser to the head RARIO on managerial competencies, certified specialist in management of compliance (Switzerland)

IDEAS OF COMPLIANCE MANAGEMENT FOR INFORMATION SOCIETY

SEMINARS

April 24, 2014 at 16:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Master: Denis B. Soloviev

The Far Eastern Federal University, Vladivostok

I. DATABASE " DEMAND AND SUPPLY FOR INNOVATION DEVELOPMENTS

II. ELECTRONIC EMULATOR OF INNOVATION ACTIVITY OF HIGH SCHOOL.

ROUND TABLES

April 23, 2014 at 14:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Master: Revyakina I.A., Filippov A.N., Begishev A.I.

Agilent Technologies

**AGILENT TECHNOLOGIES' SOLUTIONS IN THE FIELD OF SCIENCE AND
EDUCATION**

April 23, 2014 at 16:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Master: Ananin A.A.

National Instruments

**OPEN PROGRAMMABLE PLATFORM IS THE VECTOR OF TECHNOLOGY
DEVELOPMENT**

April 24, 2014 at 14:00

(Russian Centre of Science and Culture in Prague (RCSC), ul. Na Zátorce 16)

Master: Denis B. Soloviev

The Far Eastern Federal University, Vladivostok

**USING THE INFORMATION TECHNOLOGIES IN MANAGEMENT OF SCIENCE
AND INNOVATION ACTIVITIES OF HIGHER EDUCATIONAL INSTITUTIONS**

Masters: Dr. Jose Estabil, Skoltech MIT Initiative and MIT Portugal Program, USA;

Erdir Beshimov, MIT office of Digital learning, USA.

**OPEN DISTANCE LEARNING COURSE (MOOC) FOR RUSSIAN EDX PLATFORM
AND USING OF MIT (MITX) COURSES IN EDUCATIONAL ACTIVITIES OF
UNIVERSITIES**

SUMMING UP, MAKING OF DECISIONS, CLOSING CEREMONY.

April 25, 2014 at 10:00

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- NI CompactRIO is a reliable compact industrial system control and data acquisition, which expanded opportunities, thanks to technology reconfigurable input /output (reconfigurable input / output - RIO) FPGA (programmable logic integrated circuit).
- Single-Board RIO is intended for creating high-volume embedded intelligent systems for data collection and management of complex machines and mechanisms.
- NI WSN. Wireless sensor network (WSN) consists of three main components: measuring nodes, gateway and software. Units for measuring distributed in space, equipped with sensors to monitor physical phenomena, or observation of the environment. The collected data are transmitted wirelessly to a gateway connected to other wired systems, where you can carry out the collection, processing, analysis and presentation of results of measurements using the software. Routers are a special type of measurement units, which can be used to increase the duration of the transmission and reliability of WSN.

Programme of
the International Scientific and Practical Conference
INNOVATIVE INFORMATION TECHNOLOGIES

Edited by S.U. Uvaysov;
Executive editor I.A. Ivanov

Printed in author's redaction

Computer layout:
S.S. Uvaysova, A.S. Uvaysova,
S.M.Lishov, R.Yu.Pashev, D.S.Panasik
Cover design: R.Yu.Pashev

Signed to print 08.04.1014
Format 60x84/16. Paper «Pioneer»
Conventional quires 2.3 Print run 500 copies Order № 51
HSE
109028, Moscow, B.Trehsvyatitelsky lane, 3.