

Ministry of Education and Science of the Russian Federation  
St. Petersburg Branch of the International Higher Education Academy of Sciences  
(IHEAS)

Peter the Great St. Petersburg Polytechnic University  
Southern Federal University (Taganrog)

Center for the Study of Informatics Problems of the Institute of Scientific Information  
for Social Sciences, Russian Academy of Sciences (INION RAS)  
Central Economics and Mathematics Institute RAS (CEMI RAS)  
St. Petersburg Electro-Technical University "LETI"  
St. Petersburg State University of Economics



**XXI International scientific and practical conference**

**SYSTEMS ANALYSIS  
IN ENGINEERING AND CONTROL  
(SAEC-2017)**

**29 – 30 June 2017  
St.-Petersburg**

**3 – 9 July 2017  
Taganrog**

**St.-Petersburg**

## Organizing Committee

### Chairman:

**Yu. S. Vasiliev** – Academician of RAS, Doctor of Technical Science, Professor

### Co-Chairs:

**V.N. Kozlov** – Deputy Chairman of St. Petersburg Branch IHEAS, Doctor of Technical Science, Professor, Honored Worker of Higher School of RF;

**V.N. Volkova** – Doctor of Economics, Professor, Member of IHEAS, Honored Worker of Higher School of RF;

**V.E. Lankin** – Doctor of Economics, Professor SFU, Honored Worker of Higher School of RF.

### Members of the Organizing Committee:

**G. B. Kleiner** – Corresponding Member RAS, Doctor of Economics, Professor (CEMI RAS, Moscow);

**I. A. Brusakova** – Corresponding Member of IHEAS, Doctor of Technical Sciences, Professor (SPbEU “LETI”);

**G. V. Corelova** – Member of IHEAS, Doctor of Technical Sciences, Professor (SFU, Taganrog);

**S. V. Grinenko** – Doctor of Economics, Professor SFU (Taganrog);

**A. A. Efremov** – Candidate of Physics and Mathematics, Associate Professor (SpbPU);

**I. F. Katsko** – Doctor of Economics, Professor (Kuban State Agrarian University, Krasnodar);

**B. L. Kukor** – Corresponding Member of IHEAS, Doctor of Economics, Professor (SPbSUE);

**Yu. I. Lypar** – Member of IHEAS, Doctor of Technical Sciences, Professor (SPbPU);

**S. G. Red’ko** – Doctor of Technical Sciences, Senior Research Officer, Professor (SpbPU);

**A. N. Firsov** – Corresponding Member of IHEAS, Doctor of Technical Sciences, Professor (SpbPU);

**L.V. Chernenkaya** – Member of IHEAS, Doctor of Technical Sciences, Professor (SPbPU);

**Yu. Yu. Chiorny** – Head of the Center for the Study of Informatics Problems of the Institute of Scientific Information

for Social Sciences (INION RAS, Moscow), Candidate of Philosophical Sciences;

**G. P. Chudesova** – Member of IHEAS, Doctor of Economics, Professor (ITMO University, St. Petersburg);

**E.A. Yakovleva** – Corresponding Member of IHEAS, Doctor of Economics, Professor (SPbSUE).

### Foreign members of the Organizing committee:

**John-Erik Andreassen** – Professor, Østfold University College (Norway);

**Igor B. Arefiev** – Doctor of Technical Sciences, Professor–senator of Maritime Academy of Poland, member of the Polish Academy of Sciences on problems of organization and management (Poland);

**Leon Bazil** – Doctor of Economics, Professor (Montclair State University, USA);

**V. Bobrov** – Doctor of Economics, Professor (Berlin Institute of Applied Sciences, Germany);

**Bension S. Fleishman** – Doctor of Sciences, Professor (USA);

**Bob Johnson** – Professor, Expert of the European Council for Business Education (ECBE), ECBE Commissioner for Credit Rating and Ex Officio member of the Board of Directors (Belgium, United Kingdom);

**I. A. Kulkov** – Candidate of Economic Sciences, Doctoral student of Åbo Akademi University (Turku, Finland);

**N. D. Pankratova** – Doctor of Technical Sciences, Professor (Institute of Applied Systems Analysis, Ukraine);

**V. G. Rumchev** – Speaker's Biographical Information Department of Mathematics and Statistics (Curtin University of Technology, Australia);

**Reinhold Wessely** – Doctor of Sciences, Professor (Austria, Vienna).

### Scientific secretaries of the conference:

**S.V. Shirokova** – Corresponding Member of IHEAS, Candidate of Technical Sciences, Associate professor (SPbPU);

**A.V. Loginova** – Candidate of Economic Sciences, Associate professor (SpbPU).

## **The aim of the conference**

The main purpose of the Conference is presentation and discussion of the newest theoretical and practical achievements in the field of systems theory, system analysis and control theory.

## **Thematic Sections**

1. Prospective problems of system analysis.
2. Systems theory and the theory of organization.
3. Cognitive systems.
4. Cyber-physical systems.
5. System analysis of purposes in the field of informatics.
6. Problems of the sustainability of developing systems.
7. System analysis in the management of enterprises, territorial complexes, research and other organizations.
8. Development of information systems and information complexes.
9. System analysis in the innovation management and investment activity.
10. System engineering of technical complexes.
11. System analysis in the project management.
12. System analysis in the quality management.
13. System analysis in the educational process and higher education management.

## **Terms and Conditions**

**XXI International Scientific and Practical Conference “Systems Analysis in Engineering and Control”** will be held in the Peter the Great Saint Petersburg Polytechnic University on **June, 29 – 30, 2017**.

**Address:** Russia, St. Petersburg, Politekhnikeskaya str., 29, New Research Building (NIK).

**Co-Chairs:** *V.N. Kozlov* – Deputy Chairman of St. Petersburg Branch IHEAS, Doctor of Technical Science, Professor, Honored Worker of Higher School of RF; *V.N. Volkova* – Doctor of Economics, Professor, Member of IHEAS, Honored Worker of Higher School of RF.





During the Conference the round-table discussion **“Problems of teaching the system analysis for various specialties”** will be held.

Besides participation in plenary and breakout sessions, conferees will be able to visit **modern research laboratories** and the **Museum** of the Polytechnic University.

**Visiting school “Cognitive modeling of complex systems”** will take place on **July, 3 – 9, 2017** in **Taganrog** with the support of the **Southern Federal University**.

**Moderator:** *G.V. Gorelova* – Member of IHEAS, Doctor of Technical Sciences, Professor (SFU, Taganrog). **Scientific Secretary:** *M.V. Yakimenko* – Candidate of Economic Sciences, Associate professor.

**Working languages of the conference** – Russian and English.

All papers submitted to the Conference will be located in the **Russian Science Citation Index Database** (<http://elibrary.ru>) and in the **Directory of Open Access Journals (DOAJ)**.

Each paper accepted for publication will obtain a **digital object identifier (DOI)**.

**The minimum volume of a paper** is 4 pages.

### **Important dates**

**May, 26, 2017** – deadline for submission of the following materials to the Organizing Committee:

1. **Paper (article)**. The file with **.doc** extension (prepared by the means of a text editor MS Word). The file name must contain the name and the initials of the first author (e.g.: **ivanov\_ak.doc**). If the author has several articles, the file name should include the number of the article (e.g.: **ivanov\_ak\_1.doc**).

2. Completed **registration form** – the file with **.doc** extension (for example see **Appendix 1**). The file name should contain the name and the initials of the first author with a mark “**reg**” (e.g.: **ivanov\_ak\_reg.doc**).

Paper(s) and Registration form(s) should be sent to the Organizing Committee by e-mail at the address: **expert1@spbstu.ru**.

**The Conference proceedings will be presented on the website:**  
**<http://saiu.icc.spbstu.ru/conf2017/>**  
**and will be sent to the authors by e-mail.**

Hard copy of Proceedings will be available in the Organizing Committee **upon prior request** and for an additional fee (300 rubles).

### **Publication requirements**

File with the text of an article (no less than 4 pages of A4 format, prepared by means of **MS Word** and saved with **.doc** extension) should be submitted to the Organizing Committee by e-mail:

**expert1@spbstu.ru**.

### **Adjustments:**

Text of a paper (article) should include **the parts listed below in the following sequence:** title, abstract (summary), keywords, author’s information (city, name of the organization, e-mail); the main text of an article.

**Margins:** top – 2.5 cm, bottom – 2.9 cm, left - 2.7 cm, right - 2.7 cm;

**Font:** Times New Roman, Normal style; font size – 14 pt;

**Line spacing:** single.

**Alignment of the main text:** justified text.

**First-line** indentation of a new paragraph – 1 cm.

Drawings, graphs, tables, etc. should be inserted in the text in portrait orientation and should not exceed parameters of the page.

**References** in the text to the appropriate source from the list of references should be placed in square brackets (e.g.: [3, p. 20]). Do not use tabs, automatic lists.

**Structure of the paper (article) must be as follows:**

- Full name(s) of the author(s), academic degree(s) and academic title(s), position(s) – in italics, in the upper right corner;
- In a line – title of the paper (article) (in capital letters, center-align);
- In a line – a name of organization, city, country, e-mail (center-align);
- In a line – the text of an abstract;
- Keywords;
- The main text of the paper;
- References.

**Pattern of writing paper (article)**

*Full name  
academic degree, academic rank, position*

**THE TITLE (IN CAPITAL LETTERS)**

City, country, organization, e-mail

**Abstract:** 3 – 4 sentences.

**Key words:** up to 10 words.

**Text of the paper (article)**

**References:**

**Adjustments for abstracts:**

The abstract should include the description of the main topic, problems arising in a scientific paper, the purpose of the work and its key results. The abstract indicates the novelty of the research work in comparison with the other materials on related topics and research purposes.

Recommended average size of abstract is 500 characters.

Papers that do not meet the Conference topics or do not have an element of scientific novelty, as well as papers prepared without regard to the these rules, will not be considered.

*You can place an advertisement in the Conference proceedings. The cost of 1400 printed characters is 15000 rub.*

## **Contact Information**

Organizing Committee postal address:  
Peter the Great St. Petersburg Polytechnic University,  
Politekhnicheskaya str., 29, 1st education building, room 42,  
195251, St. Petersburg, Russian Federation

### **Alla Smirnova**

Tel / fax: +7(812) 297-20-88

### **Lidia Papina**

Tel/fax: +7(812) 552-85-34

E-mail: [expert1@spbstu.ru](mailto:expert1@spbstu.ru)

### **Aleksandra Loginova**

Tel: +7(812) 297-42-14

E-mail: [alexandra-lo@yandex.ru](mailto:alexandra-lo@yandex.ru)

**XXI International Scientific and Practical Conference**

**“Systems Analysis in Engineering and Control” (SAEC-2017)**

**Registration Form**

	Title:	Mr <input type="checkbox"/> Mrs <input type="checkbox"/> Ms <input type="checkbox"/> Prof <input type="checkbox"/> Dr <input type="checkbox"/>
1.	Full Name	
2.	Date of birth	
3.	Place of birth	
4.	Citizenship	
5.	Passport number	
6.	Date of issue	
7.	Date of expiry	
8.	Country of permanent residence	
9.	Place of visa issuing	
10.	<b>Place of work:</b> Organization	
11.	Address	
12.	Position	
13.	E-mail	
14.	Fax/Phone	
15.	Date of arrival	
16.	Date of departure	
17.	Accompanying person (s), if any	
18.	Section number, name of the report	
19.	Accommodation needed	<input type="checkbox"/> Yes <input type="checkbox"/> No
20.	Participation in a special meeting in Taganrog	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Please note!**

Copy of the first page of your passport sent by fax or by e-mail is required for issuing an official invitation (visa support). Visa support letter (official invitation) will be sent to you within **2 months** (for EU members within 2 weeks).



**Booking accommodation**

**1. Hotel “Sputnik”\*\*\***

- single room
- double room

**Address:** Saint-Petersburg, Prospekt. M.Toreza 36; metro station “Ploshchad’ Muzhestva”

**2. Hotel “Moscow”\*\*\*\***

- single room
- double room

**Address:** Saint-Petersburg, Ploshchad’ Alexandra Nevskogo, 2; metro station “Ploshchad’ Alexandra Nevskogo”

**3.University Hotels\*\*:**

3.1. Lesnoy prospekt 65, Metro station “Lesnaya” (Metro station “Lesnaya” is temporarily closed)

- single room
- double room

3.2. Grazhdanskiy prospekt 28, Metro station “Akademicheskaya”

- single room
- double room

**Please confirm your arrival 10 days before the start of the conference.**

Date and Place \_\_\_\_\_

Signature \_\_\_\_\_