



СО РАН



ВЫСШИЙ

КОЛЛЕДЖ

ИНФОРМАТИКИ



FEDERAL STATE AUTONOMOUS EDUCATIONAL  
INSTITUTION OF HIGHER EDUCATION  
NOVOSIBIRSK NATIONAL RESEARCH STATE UNIVERSITY

## 62th International Scientific Student Conference ISSC-2024

**April 17-23, 2024**

<https://www.nsu.ru/n/issc>  
[https://conf.nsu.ru/issc\\_2024](https://conf.nsu.ru/issc_2024)

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**1, Pirogova str., Novosibirsk, Russia, 630090,  
Novosibirsk State University**

NOVOSIBIRSK  
2024

## **The sections and subsections of the ISSC-2024\*:**

### **1. Mathematics.**

Subsections:

Algebra and mathematical logic;

Geometry and analysis;

Computational mathematics;

Differential equations;

Continuum mechanics;

Theoretical cybernetics;

Probability theory;

Monte Carlo methods and related issues;

Mathematical modeling;

Mathematical economics;

System programming;

Problems and Prospects for the Development of the Scientific and Technological Space.

### **2. Solid state physics.**

Subsection:

Solid state physics.

### **3. Plasma physics.**

Subsection:

Plasma physics;

### **4. Aerophysics.**

Subsection:

Aerophysics.

### **5. Thermophysics.**

Subsection:

Thermophysics.

### **6. Particle physics and astrophysics and cosmology.**

Subsection:

Particle physics and astrophysics and cosmology.

### **7. Physics methods in natural sciences and materials science.**

Subsections:

Chemical and biological physics;

Biomedical physics;

Physical methods for studying functional materials and nanosystems

### **8. Photonics and Quantum Optical Technologies.**

Subsection:

Photonics and Quantum Optical Technologies

### **9. Instrumentation in experimental physics.**

Subsections:

Radiophysics and accelerators;

Experiment automation, modeling, and data processing.

### **10. Condensed Matter.**

Subsections:

Condensed Matter.

### **11. Chemistry.**

Subsections:

Catalysis;

Organic chemistry;

Biochemistry;

Physical chemistry;

Inorganic chemistry;

Solid state chemistry;

Chemical materials science;  
Analytical chemistry.

**12. Biology.**

Subsections:

Ecology;  
Human and animal physiology;  
Molecular biology and biochemistry;  
Cytology and genetics;  
Bioinformatics.

**13. Earth sciences.**

Subsections:

General and regional geology;  
Paleontology and stratigraphy;  
Geophysics and geophysical methods of mineral prospecting;  
Petrology of igneous and metamorphic rocks;  
Mineralogy and crystallography;  
Petroleum geology;  
Geology of ore deposit

**14. Information technologies.**

Subsections:

Computer graphics, multimedia technologies and virtual reality systems;  
Network technologies, Internet technologies and their applications;  
Neural networks and machine learning;  
Parallel computing;  
Management information systems, internet of things;  
Information security and cybersecurity;  
Information technologies in education;  
High technology software;  
Instrumental and applied software systems;  
Software architecture and system programming;  
Artificial intelligence technologies;  
Software engineering and knowledge engineering;  
Theory and practice of the digital economy (business informatics and economic cybernetics);  
Database management systems

**15. Economics.**

Subsections:

Economic theory: modern approaches at the global, macro and micro levels;  
Regional economics and spatial research;  
Modeling of socio-economic processes;  
Enterprises: innovative and technological development;  
Finance and banking;  
Interdisciplinary studies (only to undergraduates);  
Data analysis and digitalization of the economy.

**16. Management.**

Subsections:

Strategic and innovative management;  
Project, process, and people management.

**17. Sociology.**

Subsections:

Social institutions and individual behavior;

Sociological studies of urban and regional space;  
Sociological studies of symbolic and virtual systems.

**18. Foreign languages: linguistics and communications.**

Subsections:

Theory of language;  
Stylistics and translation studies;  
Lexicology, cognitive science;  
Intercultural communication.

**19. History.**

Subsections:

History and culture of Antiquity and the Middle Ages;  
Modern and contemporary history of Europe and America;  
The history of Russia from the X century to the first half of the XIX century;  
The history of Russia from the second half of the XIX century to the beginning of the XX century;  
Social and political history of Russia from the XX century to the beginning of the XXI century;  
Socio-cultural and economic history of Russia from the XX century to the beginning of the XXI century.

**20. Archaeology.**

Subsections:

Stone Age Archaeology;  
Archaeology of the Palaeometal Epoch;  
Medieval archaeology.

**21. Ethnography.**

Subsections:

Traditional culture and cultural heritage of the peoples of North and Central Asia: problems of study, preservation and actualization;  
Modern ethno-confessional and ethno-social processes of the peoples of Russia and neighboring countries. Regional studies;  
Oral and everyday history. Ethnography of the city in modern Russia .

**22. Oriental studies.**

Subsections:

Culture and Art;  
History and Archaeology;  
Economics, Politics, Law;  
Philology and mythology;  
Topical issues of Oriental Studies in Chinese;  
Topical issues of Oriental Studies in Korean;  
Topical issues of Oriental Studies in Japanese.

**23. Literature studies.**

Subsections:

Russian literature of the XX-XXI centuries;  
Russian literature of the XIX century;  
Source studies of Russian literature of the XI-XVIII centuries.

**24. Linguistics .**

Subsections:

Grammar;  
Communicative linguistics;  
Semantics.

**25. Journalism.**

Subsections:

Modern media: technologies and techniques;  
History of Journalism, history in journalism;

Media language and style.

**26. History and Theory of Arts.**

Subsections:

Visual arts and architecture;

Music, theater and cinema.

**27. Applied linguistics.**

Subsection:

Applied linguistics.

**28. Philosophy.**

Subsections:

History of philosophy;

Social philosophy;

Philosophy of science and epistemology;

Philosophical anthropology and philosophy of culture.

**29. State and law.**

Subsections:

Civil law, corporate law, family law;

Constitutional and municipal law, constitutional litigation;

Business law, labor law, environmental law, civil and arbitration process;

Theory and history of state and law, history of legal and political doctrines;

Criminal law, criminal procedure and criminalistics.

**30. Political science.**

Subsections:

Political science.

**31. Psychology.**

Subsections:

Personality psychology: theoretical and applied aspects;

Clinical and developmental psychology;

Social and organizational psychology.

**32. Medical sciences.**

Subsections:

Molecular and experimental medicine;

Clinical medicine.

**33. Agriculture sciences.**

Subsections:

Agrotechnologies;

Biotechnologies in the agro-industrial complex (directions: veterinary medicine, animal husbandry, processing technology of plant and animal products);

Economics and management in the agro-industrial complex.

**34. Pedagogy.**

Subsection:

Pedagogy.

**35. Scientific engineering.**

Subsection:

Oil and gas engineering;

Engineering solutions in biotechnology and medicine;

Engineering solutions in instrumentation.

**36. Climate policy, low-carbon economy and energy.**

Subsection:

Climate policy, low-carbon economy and energy.

**37. School ethnography and local history. "The Memory of the family is the memory of the People"**

(together with the Fund for Support of Projects in the Field of Education and the Ministry of Regional Policy of the Novosibirsk region).

**38. Archaeology – school section.**

**39. Information technologies – school section.**

**40. Physics – school section**

Subsection:

General physics;

Tournament of young physicists (TUPh)

**41. Chemistry – school section.**

**42. Biology – school section.**

Subsections:

General biology;

Biodiversity, ecology;

Microbiology.

**43. Humanities – School section.**

Subsections:

History;

Cultural studies;

Psychology.

**44. Engineering design – school section.**

Subsections:

Automation and robotics;

Intelligent systems;

Engineering modeling;

Bioengineering and bioinformatics.

**45. Mathematics – School section.**

**46. Digital Sciences - school section**

Subsections:

Game strategies and digital modeling;

Cryptography, quantum computer science and computer security;

Machine learning and neural networks;

Data analysis.

**47. Socio-economic sciences – school section.**

Subsections:

Sociology;

Economics and Management.

**48. Philology - school section.**

Subsections:

Linguistics;

Literary studies.

## **CONFERENCE PARTICIPATION REQUIREMENTS**

**By February 21, 2024 fill out the electronic application form and submit the abstracts on the website: [https://conf.nsu.ru/issc\\_2024](https://conf.nsu.ru/issc_2024).**

*Please carefully read and revise your abstracts to achieve the following requirements before submitting it. The abstracts must be completed in accordance with the rules posted on the conference website. The abstract template is a Rich Text Format (.rtf) document. It is important to submit your document to us in this file format. Except for “Mathematics” the abstract template is a Text Format (.tex.) document.*

*The working languages of the conference are Russian and English.*

**After February 21, 2024, the ISSC Electronic Registration System will be closed for submission of the applications and abstracts.**

From February 21 to March 26, 2024, the Expert Council of the ISSC sections will make a

preliminary selection of the submitted abstracts for their further inclusion in the conference Program and publication in the conference proceedings. Participants will receive messages about the results of the selection until March 12, 2024, which will be sent via mail, specified by participants. Information about the application's status can be viewed at any time on the website: [https://conf.nsu.ru/issc\\_2024](https://conf.nsu.ru/issc_2024).

The Program Committee retains the right to decline and don't publish abstracts by the following reasons: 1) abstracts are not relevant the main research areas of the conference sections and subsections, 2) they do not contain scientific information, 3) participants violated the mentioned above requirements, 5) abstracts will be received by the Organizing Committee after February 10, 2022.

**After receiving the notification of acceptance of abstracts for publication, it is necessary to pay the registration fee according to the payment instructions posted on the conference website.**

The right to make an oral presentation is given only to the participants, whose abstracts will be successfully selected and included in the conference proceedings. In case of non-payment of the organizing fee by the participants within the deadline, set by the Organizing Committee, they will not be allowed to participate in the conference and their abstracts will not be published in the proceedings. According to the results of the presentations at the conference, the best presentations of the participants (students / schoolchildren) will be awarded with diplomas. The abstracts submitted by postgraduate students and young researchers are not accepted for the competition, diplomas are not awarded. All participants of the conference will receive the certificates proving their participation in the conference. After the conference, all accepted abstracts will be published in the conference proceedings and posted in the RSCI electronic catalog within the assignment of ISBN and DOI.

#### **THE ORGANIZING FEE**

After receiving a message about the acceptance of the abstracts for publication, authors have to pay organizing fee by March 26, 2024 including. Payment should be made ONLY after confirmation of the acceptance of the abstracts for publication!

In case of non-payment of the organizing fee on time, the organizing committee will exclude the participant's application and abstracts from the conference program and proceedings.

The amount of organizing fee:

\*full-time, online, absentee participation – **1,500 rubles.;**

\*students (bachelor's degree, specialty, master's degree, postgraduate) NSU – **free of charge;**

\* schoolchildren – **free of charge;**

\*printed conference proceedings – **1000 rubles;**

The organizing fee should be paid by online payment on the conference website or by the contract with juridical persons.

Payment for participation in the conference by the sending party should be realized only by the contract. The contract template is available on the conference website in the "Payment of organizing fee". Completed contracts have to be sent via mail ([issc@post.nsu.ru](mailto:issc@post.nsu.ru)), until March 26, 2024.

#### **CONTACTS OF THE ISSC ORGANIZING COMMITTEE:**

Department for the Organization of Scientific Events (DOSE NSU), room 233a, 2, Pirogova str., Novosibirsk, Russia, 630090

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\*Sections and subsections of the ISSC can be changed. Information about the changes will be published on the official website of the ISSC (<https://issc.nsu.ru>) and in the official group VKontakte: [https://vk.com/issc\\_info](https://vk.com/issc_info).

