



# APITECH

Applied Physics, Information  
Technologies and Engineering

Science and Technology City Hall  
KRASNOYARSK, RUSSIA



RUSSIAN AND  
INTERNATIONAL UNION  
OF SCIENTIFIC AND  
ENGINEERING ASSOCIATIONS



Federal Research Center  
"Krasnoyarsk Science Center of the Siberian  
Branch of the Russian Academy of Sciences"



SSC DNIT

Siberian Scientific Centre

Accepted papers will be published in:

IOP Conference Series [conferenceseries.iop.org](http://conferenceseries.iop.org)

Journal of Physics: Conference Series

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## INFORMATION LETTER

about

### III International Conference on Applied Physics, Information Technologies and Engineering - APITECH-III - 2021

(Krasnoyarsk, Russia, September 24 – October 3, 2021)

International and Russian Union of Scientific and Engineering Associations, Siberian Scientific Centre DNIT, Krasnoyarsk Science and Technology City Hall and Federal Research Center of the Siberian Branch of the Russian Academy of Sciences are organizing III International Scientific Conference on Applied Physics, Information Technologies and Engineering - APITECH-III - 2021.

The Conference will take place in Krasnoyarsk on 24 September - 3 October, 2021.

The conference will host:

- XXIX All-Russian workshop "Neuroinformatics, its applications and data analysis" (24-26 September 2021)
- XXIV All-Russian workshop "Modeling of nonequilibrium systems-2021" (1-3 October 2021).

We invite scientists, and specialists from Russian and foreign universities, academic institutions, enterprises, design and research centers to participate in the Conference.

**The purpose of the Conference** is to share the experience of leading experts in the application of modern methods of applied physics and information technology in high-tech production, in the fields of aerospace, energy, chemical and oil and gas engineering, economics and organization of engineering production, as well as in modern areas of neuroinformatics, complex systems research, modeling nonlinear, non-stationary and spatially heterogeneous processes.

**The work of the Conference is planned in the following directions:**

- Condensed Matter Physics;
- Nanoscience and Nanotechnology;
- Optical Physics, Quantum Electronics and Photonics;
- Engineering and Industrial Physics;
- Instrumentation Metrology and Standards;
- Software Engineering;
- Information Systems;
- Software Reliability and Data Protection;
- Cybernetics, Economics and Organization of Mechanical Engineering Production;
- Mechanical Engineering and Industry 4.0;
- Automation Engineering and Cyber-Physical Systems;
- Materials Science, Aerospace Technology and Engineering;
- Modeling of nonequilibrium systems;
- Power, Chemical and Ecological Engineering;
- Oil and Gas Engineering;
- Neuroinformatics, its applications and data analysis.

**Directions of the XXIX All-Russian workshop "Neuroinformatics, its applications and data analysis":** teaching algorithms and architecture of neural networks; neural network systems for information processing and pattern recognition; neural network expert systems and management systems; neural network software and its design principles; neural network technologies for data analysis and knowledge extraction; neurobionics and brain models; technical basis for the implementation of neurosystems; parallel information processing systems; expert systems; adaptive management theory; machine learning and self-learning programs; data analysis: statistical and heuristic methods; methods of artificial intelligence and fuzzy logic; methods for reducing the description and visualization of data.

**Directions of the XXIV All-Russian workshop "Modeling of nonequilibrium systems-2021":** methods and technologies for mathematical modeling of nonequilibrium systems: methods of mathematical modeling, simulation methods (including classical simulation, neural networks, modeling using active media, etc.); development of mathematical and software modeling of nonlinear, non-stationary and spatially heterogeneous processes; development of modeling methods for complex systems, applications in physics, chemistry, engineering, biology, economics and finance. Intelligent digital systems.

All conference papers accepted to the Conference will be presented in one of the formats (face-to-face scientific sessions, virtual sessions in Zoom, pre-recorded video-reports, or E-poster presentations).

One can register for the Conference on-line on the web-site of the Conference (<https://conf.domnit.ru/en/conferences/apitech-2021/>). The registration is open from June 2021 till September, 2021.

### **Proceedings of the Conference**

The Proceedings of the Conference in the form of full papers in the English language will be published in Journal of Physics: Conference Series (JPCS), indexed by Web of Science and Scopus. The papers should meet the requirements of the Journal (the requirements and the template can be found on the Conference web-site <http://www.conf.domnit.ru/en/authors-en/>).

The official languages of the Conference are Russian and English. The Organizers will provide professional interpretation if required.

### **Conference Venue**

The Conference will take place in Krasnoyarsk Science and Technology City Hall: 61 Uritskogo Street, Krasnoyarsk, Russia and at Federal Research Center of the Siberian Branch of the Russian Academy of Sciences: Institute of Computational Modeling SB RAS - 660036, Krasnoyarsk, Akademgorodok St., 50, building 44.

We will provide the participants with visa support documents (an official letter of invitation). We will be glad to help with accommodation in cozy and hospitable hotels of Krasnoyarsk at special prices to all participants during the conference by priory arrangement. Accommodation and travel expenses are paid by sending organizations.

### **Registration Fee**

The registration fee for participation is 250 EURO. The fee is paid after the notice about acceptance of the paper but not later than September 28, 2021.

### **Contact Details**

Please forward all the questions concerning the participation and the programme to the executive secretary:

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E-mail: [krasnio@bk.ru](mailto:krasnio@bk.ru)

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The detailed information is also available at:  
<https://conf.domnit.ru/en/conferences/apitech-2021/>.

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