СИБИРСКИЙ
ГОСУДАРСТВЕННЫЙ
ИНДУСТРИАЛЬНЫЙ
УНИВЕРСИТЕТ

Ministry of Science and Higher Education of the Russian Federation
Siberian State Industrial University

Dear colleagues!
We invite you to take part in the V International Scientific and Practical Conference
"Modeling and knowledge-based information technologies in technical and socio-economic sciences", which will take place on April 1-4, 2021
and is dedicated to the 100th anniversary of the birth of N.V. Tolstoguzov and the 40th anniversary of the Department of Applied Information Technologies and Programming
.

The purpose of the conference:
Exchange of experience in the field of theory and practice of mathematical modeling and the development of new knowledge-intensive information technologies based on them.

The topics of the conference and its sessions:
• **Methods and software and instrumental systems of mathematical modeling and identification**.
• **Modeling and high-tech information technologies in metallurgy, raw materials extraction and processing**.
• **Modeling of heat and power processes**.
• **Information technologies in socio-economic systems**.

ORGANIZERS
Administration of the Government of Kuzbass (Kemerovo, Russia)
Administration of the Novokuznetsk city (Novokuznetsk, Russia)
Siberian State Industrial University (Novokuznetsk, Russia)
JSC "EVRAZ Consolidated West Siberian Metallurgical Plant" (Novokuznetsk, Russia)
Scientific and Educational Center "Kuzbass" (Kemerovo, Russia)

PARTNERS

Journal "Ferrous metals" (Moscow)
Journal "Izvestiya vuzov. Ferrous metallurgy" (Moscow)
Journal "Bulletin of SibSIU" (Novokuznetsk)
Scientific and technical production journal "Ferrous metallurgy". Bulletin of scientific, technical and economic information (Moscow)
Russian Academy of Natural Sciences (Moscow)
Institute of Metallurgy of the Ural Branch of the Russian Academy of Sciences (Ekaterinburg).
Ural Federal University n.a. the first President of Russia B.N. Yeltsin (Ekaterinburg).

PROGRAM COMMITTEE OF THE CONFERENCE
Chairman V.P. Tsymbal – Doctor of Technical Sciences, Professor, Professor-Consultant of the Department of Applied Information Technologies and Programming, Siberian State Industrial University, Novokuznetsk
Deputy Chairman N.A. Spirin – Doctor of Technical Sciences, Professor, Head of the Department of Thermophysics and Informatics in Metallurgy, Ural Federal University n.a. the first President of Russia B.N. Yeltsin, Ekaterinburg.

Members of the program committee

Doctor Florian Kongoli – CEO FLOGEN Technologies Inc.; Chairman, FLOGEN STARS OUTREACH; President of SHIPS 2020, Canada, USA.

Roos H.-G., Prof. Dr. rer. nat. habil, Institute of Numerical Department of Mathematics Technical University of Dresden, Germany.

Haydar A. Prof. of Applied Mathematics College of Arts & Sciences, Abu Dhabi University, Abu Dhabi, UAE.

S.T. Mukhambetzhanov, Doctor of Physical and Mathematical Sciences, Corresponding Member of the International Academy of Engineering, Professor of the Department of Computational Science and Statistics, Al-Farabi Kazakh National University, Almaty, Kazakhstan.

M.V. Temlyantsev – Doctor of Technical Sciences, Professor, Vice-Rector for Research and Innovation, Siberian State Industrial University, Novokuznetsk.

V.N. Fryanov – Doctor of Technical Sciences, Professor, Head of the Department of Geotechnology, Siberian State Industrial University, Novokuznetsk.

L.A. Smirnov – Doctor of Technical Sciences, Professor, Academician of the Russian Academy of Sciences, Scientific Director of Ural Institute of Metals, Ekaterinburg.

V.G. Lisienko – Doctor of Technical Sciences, Professor, Head of the Department of Automation and Control in Technical Systems, Ural Federal University n.a. the first President of Russia B.N. Yeltsin, Ekaterinburg.

S.A. Zagainov – Doctor of Technical Sciences, Professor, Head of the Department of Metallurgy of Iron and Alloys, Ural Federal University n.a. the first President of Russia B.N. Yeltsin, Ekaterinburg.

V.V. Lavrov – Doctor of Technical Sciences, Professor, Professor of the Department of Thermophysics and Informatics in Metallurgy, Institute of New Materials and Technologies, Ural Federal University n.a. the first President of Russia B.N. Yeltsin, Ekaterinburg.

A.N. Dmitriev – Doctor of Technical Sciences, Professor, Chief Researcher of the Laboratory of Pyrometallurgy of Ferrous Metals, Institute of Metallurgy of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg.

V.V. Bukhmirov – Doctor of Technical Sciences, Professor of the Department of Theoretical Foundations of Heat Engineering, Ivanovo State Power Engineering University n.a. V.I. Lenin, Ivanovo.

A.A. Kozhukhov – Doctor of Technical Sciences, Professor of the Department of Metallurgy and Metallurgy n.a. S.P. Ugarov of the Stary Oskol Technological Institute n.a. A.A. Ugarov (branch), National Research Technological University "MISiS", Stary Oskol.

A.V. Chekhonadskikh – Doctor of Technical Sciences, Candidate of Physics and Mathematics, Professor of the Department of Algebra and Mathematical Logic of the Faculty of Applied Mathematics and Informatics, Novosibirsk State Technical University, Novosibirsk.

V.I. Smagin – Doctor of Technical Sciences, Professor, Professor of the Department of Applied Mathematics of the Institute of Applied Mathematics and Computer Science, National Research Tomsk State University, Tomsk.

ORGANIZING COMMITTEE OF THE CONFERENCE

Chairperson

A.B. Yuriev, Doctor of Technical Sciences, Rector of Siberian State Industrial University.

Deputy Chairman

M.V. Temlyantsev, Doctor of Technical Sciences, Professor, Vice-Rector for Research and Innovation, Siberian State Industrial University;

L.D. Pavlova, Doctor of Technical Sciences, Associate Professor, Director of the Institute of Information Technologies and Automated Systems.

Members of the organizing committee:

I.A. Rybenko – Doctor of Technical Sciences, Associate Professor, Head of the Department of Applied Information Technologies and Programming;

V.P. Tsymbal – Doctor of Technical Sciences, Professor, Professor-Consultant of the Department of Applied Information Technologies and Programming;

T.V. Kiseleva – Doctor of Technical Sciences, Professor, Professor of the Department of Applied Information Technologies and Programming;

S.N. Kalashnikov – Doctor of Technical Sciences, Associate Professor, Professor of the Department of Applied Information Technologies and Programming;

T.V. Korablina – Candidate of Technical Sciences, Associate Professor, Associate Professor of the Department of Applied Information Technologies and Programming;

V.N. Buintsev– Candidate of Technical Sciences, Associate Professor, Associate Professor of the Department of Applied Information Technologies and Programming;

V.I. Kozhemyachenko – Candidate of Technical Sciences, Associate Professor, Associate Professor of the Department of Applied Information Technologies and Programming.

Head of the technical secretariat

Sechenov P.A. – Candidate of Technical Sciences, Associate Professor of the Department of Applied Information Technologies and Programming.

Members of the technical secretariat:

L.G. Smirnova – Engineer of the Department of Applied Information Technologies and Programming;

D.Yu. Belaventseva – Leading Engineer of the Department of Applied Information Technologies and Programming.

CONFERENCE PROCEEDING

A conference proceeding will be published by the beginning of the conference. It will be indexed in the RSCI database.

Conference languages: Russian, English, German.

Requirements for paper submission:
- Volume – up to 6 full A4 pages;
- text editor WORD for WINDOWS. 2010 version;
- font – Times New Roman, № 12;
- line spacing - single;
- margins – top – 20 mm; bottom, left, right – 23 mm;
- figures should be raster, inserted into the text of the report (flow over from above and below)
- UDC – in the upper left corner (in capital letters);
- title of the report (font 12B in the center, all capitals);
- on the next line – names of the authors;
- after 1 interval – affiliation, city, country, author's e-mail (font 12, italics, centered);
- 1-spaced annotation (5-6 lines), (font 10, italic);
- 1 interval key words (5-10 words) (font 10, italic);
- in English: abstract, keywords;
- 2-spaced text of the report (font 12).
- At the end of the report there is a reference list (up to 10 titles with an indication of the full list of authors).

The electronic version of the collection will be displayed on SibSIU website and included into the RSCI. The fee for participation in the conference and paper publication is 500 rubles. For money transfer details please contact Head of the Organizing Committee Inna Rybenko, e-mail: rybenkoi@mail.ru, tel.: 8-960-924-60-32.

REGISTRATION OF THE CONFERENCE PARTICIPANTS

Registration form
Name_____
Degree_____
Affiliation, position_____
Postal address_____
Telephone_____
E-mail_____
Section_____
Title of the paper_____
Information about the co-authors_____

CONTACT INFORMATION

Applications for participation in the conference, a copy of the payment receipt and papers must be submitted before March 1, 2021 to Vadim Kozhemyachenko in electronic form with the subject of the e-mail "Modeling – 2021" (e-mail: kvi_itm@mail.ru). Tel .: (3843) 79-15-63, 8-905-911-01-74. Website: http://www.sibsiu.ru/kafedry/pitip.

Head of the Organizing Committee is Inna Rybenko, Doctor of Technical Sciences, e-mail: rybenkoi@mail.ru, tel.: 8-960-924-60-32.