



THEORY



News

DLCP2024

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The 8th International Conference on Deep Learning in Computational Physics

June 19-21, 2024

SINP MSU, Moscow, Russia



Official website DLCP2024: <https://dlcp2024.sinp.msu.ru> [<https://dlcp2024.sinp.msu.ru>]

We are pleased to invite you to participate to the DLCP2024 – The 8th International Conference on Deep Learning in Computational Physics which will be held at the Skobeltsin Institute of Nuclear Physics of Lomonosov Moscow State University (MSU) on June 19-21, 2024.

The conference will be held in a mixed format: face-to-face and remote.

The conference focuses on the use of machine learning in particle astrophysics and high energy physics, physics of atmosphere and other areas of natural sciences. Topics of interest are various applications of artificial neural networks to physical problems, as well as the development of new modern machine learning methods for analyzing various scientific data, including big data.

The working languages are English and Russian.

Organizers

	M.V. Lomonosov Moscow State University, D.V. Skobeltsyn Institute of Nuclear Physics (SINP MSU, Moscow, Russia) [http://www.sinp.msu.ru]
	Shirshov Institute of Oceanology, Russian Academy of Sciences [https://ocean.ru/en/] (Moscow, Russia)
	Research Computing Center of the Lomonosov Moscow State University (RCC MSU, Moscow, Russia) [https://rcc.msu.ru/en]
	Joint Institute for Nuclear Research, Meshcheryakov Laboratory of Information Technologies (MLIT JINR, Dubna, Russia) [https://lit.jinr.ru/en]

The main topics

Section 1. Machine Learning in Fundamental Physics

- Machine learning methods in particle astrophysics and high energy physics.
- Fast event generators based on machine learning for simulation of physics phenomena.
- Multi-messenger data analysis of experimental data.
- Application machine learning for data analysis in megascience facilities.

Section 2. Machine Learning for Environmental Sciences

- Climate analysis, retrospective analysis and projection
- Statistical modeling of the ocean and atmosphere on various temporal and spatial scales
- Environmental monitoring: remote sensing, instrumental monitoring, observations, monitoring networks

Section 3. Machine Learning in Natural Sciences

- Biology and bioinformatics.
- Engineering sciences.
- Modern Machine Learning Methods

The conference will feature:

- invited presentations - 30 minutes,
- regular presentations - 15 minutes,

Important dates

- Registration — until June 10, 2024
- Deadline for abstract submission — **June 3, 2024**
- Notification of report acceptance — June 10, 2024
- Conference dates - June 19-21, 2024
- Paper submission — August 12, 2024

Registration fee

A fee is charged for participation in the conference. Registration fee includes organizing costs, participation support, coffee/tea breaks, and preparing of conference proceedings.

Accommodation and social events are not included, participants pay for it on their own.

On site participation:

- Participant - 6000 ₺
- Student - 2000 ₺

Online (remote participation):

- Participants with accepted report for each - 4000 ₺
- Student and online participant without report - free of charge

Registration and abstract submission

The registration and abstract submission should be done via the website:
Registration and abstract submission.

Proceedings

After blind peer review, all accepted papers will be published in the conference proceedings as a special issue of the journal Moscow University Physics Bulletin [<http://vmu.phys.msu.ru/recent>] in 2024 in both electronic and paper form. The journal is published in English by Springer [<https://www.springer.com/journal/11972>] and indexed in the databases WoS [<https://www.webofscience.com>] and Scopus [<https://www.scopus.com>] and is included in the Russian index RCSI [<https://elibrary.ru/projects/rsci/rsci.pdf>] too.

We invite three types of submissions:

INVITED PAPERS until 30 pages

REGULAR PAPERS describe research not published or submitted elsewhere (12-15 pages).

SHORT PAPERS may be position papers, descriptions of research prospects, challenges, projects, ongoing works, or applications (5-9 pages).

Place and transportation

The Skobeltsyn Institute of Nuclear Physics of MSU (Leninskie gory-1, bld.5, Moscow, Russia, near by metro "Universitet"). The ZOOM link will only be sent to registered participants 2 days before the start of the conference.

Accommodation

Conference participants have to make hotel reservations on their own and in advance. Sorry, NO VISA support.

Program committee

- A. Kryukov (SINP MSU, Moscow) — Co-Chair
- S. Gulev, corresponding member of the RAS (SAIL, IORAS, Moscow) — Co-Chair
- E. Boos, corresponding member of the RAS (SINP MSU, Moscow)
- S. Dolenko (SINP MSU, Moscow)
- D. Gorbunov, corresponding member of the RAS (INR RAS, Moscow)
- V. Ilyin (NRC "Kurchatov Institute", Moscow)
- M. Krinitskiy (ML4ESlab, MIPT, Moscow)
- V. Korenkov (MLIT JINR, Dubna)
- V. Voevodin, corresponding member of the RAS (RCC MSU, Moscow)


Organizing committee


- E.G. Boos (SINP MSU, Moscow) -secretary
- S. Dolenko (SINP MSU, Moscow)
- M. Krinitskiy (ML4ESlab, MIPT, Moscow)
- A. Kryukov (SINP MSU, Moscow)
- A. Suslov (IORAS, Moscow)

Contacts

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[mailto:dlcp2024@sinp.msu.ru].

Partners

	Группа компаний ПСК [https://rscgroup.ru/] — ведущий российский и хорошо известный в мире разработчик и интегратор «полного цикла» инновационных энергоэффективных, высокоплотных, масштабируемых
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	решений с жидкостным охлаждением для высокопроизводительных вычислений и систем для машинного/глубокого обучения (High-Performance Computing, Machine Learning/Deep Learning), центров обработки данных (ЦОД), Edge Computing решений и интеллектуальных систем хранения данных «по требованию» (storage-on-demand).
	АйПи Лаборатория [https://iplaboratories.com/ru/] - консалтинговая компания, работающая в области искусственного интеллекта. Мы выпускаем аналитику, делаем образовательные программы, организуем конференции. Наш самый известный проект - Открытая конференция по искусственному интеллекту OpenTalks.AI [https://opentalks.ai/en]