Ministry of Education and Science of Ukraine
National Technical University of Ukraine
«Igor Sikorsky Kyiv Polytechnic Institute»

V.M. Glushkov Institute of Cybernetics
of NAS of Ukraine
GlobalLogic Ukraine







# The 6th International Scientific and Technical Conference «High Performance Computing» (HPC-UA 2020) April 27, 2020 - April 28, 2020 Kyiv, Ukraine

The 6Th International Scientific and Technical Conference "High Performance Computing" (HPC-UA 2020) will be held in Kyiv, Ukraine, **April 27 – 28, 2020** at the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" on the basis of the Faculty of Informatics and Computer Science.

# The Organizing Committee Honorary chairpersons

- Prof. Ivan Sergienko, Director of V.M. Glushkov Institute of Cybernetics, Ukraine
- Prof. Mykhailo Zgurovsky, Rector of Igor Sikorsky Kyiv Polytechnic Institute, Ukraine

## Organizing committee general chairperson

- Prof. Sergii Stirenko, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine
- Dr. Vadim Tulchinsky, V.M. Glushkov Institute of Cybernetics, Ukraine
- Tatiana Khriapina, Learning and Development Head Central and Eastern Europe Region, GlobalLogic

# **TPC chairpersons:**

 D.Sc. Vadim Tulchinsky, V.M. Glushkov Institute of Cybernetics, Ukraine

#### **Publication chairperson:**

 Dr. Artem Volokyta, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine

#### **Finance chairperson:**

 Dr. Maiia Sperkach, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine

#### Local organizing committee

- Dr. Alla Kohan, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine
- Dr. Dmytro Humennyi, Igor Sikorsky Kyiv Polytechnic Institute, GlobalLogic Ukraine
- Dr. Ievgen Sakalo, GlobalLogic Ukraine
- Olga Kurna, GlobalLogic Ukraine
- Dr. Anastasiia Hrechko, V.M. Glushkov Institute of Cybernetics, Ukraine

## **Technical program committee**

- Prof. Anatoly Anisimov, Ukraine
- Prof. Anatolii Doroshenko, Ukraine
- Prof. Vladimir Emelichev, Belarus
- Prof. Ivan Gavrilyuk, Germany
- Dr. Andrii Golovynskyi, Ukraine
- Prof. Yuri Gordienko, Ukraine
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- Dr. Iryna Klymenko, Ukraine
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- Prof. Roman Kuc, USA
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- Dr. Oleg Lodygensky, France
- Dr. Robert Lovas, Hungary
- Prof. Sergei Lyshevski, USA
- Prof. Krassimir Markov, Bulgaria
- Prof. Romanas Tumasonis, Lithuania
- Prof. Eugene Martynov, Ukraine
- Prof. Mykhailo Novotarsky, Ukraine
- Prof. Oleksandr Palagin, Ukraine
- Prof. Oleksandr Pavlov, Ukraine
- Prof. Dana Petcu, Romania
- Dr. Gabriele Pierantoni, Ireland
- Prof. Oleksandr Provotar, Ukraine
- Prof. Oleksandr Rolik, Ukraine
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- Prof. Sergii Stirenko, Ukraine
- Dr. Sergii Svistunov, Ukraine
- Prof. Sergii Telenyk, Ukraine
- Prof. Gabor Terstyanszky, UK
- Prof. Valentyn Tomashevsky, Ukraine
- Prof. Sergiy Yershov, Ukraine
- Prof. Valerii Zadiraka, Ukraine
- Prof. Yaroslav Zhurakovsky, Ukraine

#### **Conference topics**

- Cloud Computing. HPC. Cloud. Security.
- **Deep Learning**. Machine Learning. Artificial Intelligence. Neural networks.
- Software and Applications. Data Science. Software. Applications.
- Embedded Systems and Robotics. Intelligent Systems. Internet of Things. Engineering. Robotics. Embedded HPC.

#### **General Information**

The official working language of the Conference is English.

Conference fee for speakers is 600 UAH / \$50. For students and PhD students the fee is 300 UAH / \$25.

The Conference Finance covers handout materials, coffee breaks and participation in the workshop programs. The Conference Finance does not cover printed publications of the conference materials and accommodation. To obtain a printed copy or book accommodation you should contact the organizing committee of the conference.

Attendance of conference sessions without presentations is free of charge. Only registration on a conference site is required.

#### **Deadlines**

Call for Papers	February 15
Paper submission due	March 15
Notification of paper acceptance	March 20
Response of Reviewers	March 29
Final Paper Submission	April 12
Registration and full payment due	April 17

#### **Submission Guidelines**

Prospective authors are invited to submit conference paper or poster presentations within the range of conference topics. We encourage authors to present their work on practical studies and experiments, critique of existing works, emerging issues, and novel ideas under development. Original papers not being submitted to journals or other conferences will be considered.

Conference papers to Proceedings must be prepared in English and submitted electronically after registration as a conference participant.

You can also submit your extended article at least 8-15 pages. For publication of extended articles, you should contact the organizing committee.

Extended articles will be published in special issues of the scientific journals of the Faculty of Informatics and Computer Science of Igor Sikorsky Kyiv Polytechnic Institute or the Glushkov Institute of Cybernetics. The Conference Finance does not cover publishing of full articles.

All submitted papers will be reviewed by the International Program Committee to ensure their originality, significance, fundamental insights, potential long-term contribution, correctness, presentation and relevance. To be published accepted papers should be presented at the Conference.

Your submission must satisfy the following limitations:

- conference papers from 4 to 6 full A4 pages,
- poster presentations up to A0 size,
- extended papers up to 8-15 pages.

We only consider papers prepared strongly in line with **IEEE Conference Paper Template**. All papers should be submitted through **Easy Chair conference system**. All conference participants should be submitted via conference Web site registration system <a href="http://hpc.ugrid.org">http://hpc.ugrid.org</a>.

#### Location

# Opening Session

Council hall of NTUU "Igor Sikorsky Kyiv Polytechnic Institute",building **6**, 37 Peremohy ave., Kyiv https://kpi.ua/en/location https://kpi.ua/en/k-6

# • Keynote Session

NTUU "Igor Sikorsky Kyiv Polytechnic Institute", Building 13, 14-v Politekhnichna str., Kyiv https://kpi.ua/en/node/2756



#### **Contacts**

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\*Please note that our contact E-mail is for questions/quotes only. Please do not submit your papers to this E-mail.