

Preliminary CALL FOR PAPERS – ISPD 2023

ACM International Symposium on Physical Design

with a tribute to Professor Malgorzata Marek-Sadowska

March 26-29, 2023, Virtual <http://www.ispd.cc/>

Sponsored by ACM SIGDA with technical co-sponsorship from IEEE CEDA

The International Symposium on Physical Design (ISPD) provides a premier forum to exchange ideas and promote innovative research in all aspects of physical design ranging from traditional topics for ASIC and FPGA designs to emerging technologies that impact physical design of integrated circuits (ICs). In 2023, ISPD will be online with virtual participation, with both live video and recorded sessions. The 32nd symposium will highlight key new directions and leading-edge theoretical and experimental contributions to the field.

Physical design topics of interest include but are not limited to:

Floorplanning and interconnect planning	Interactions with system and logic level design
Partitioning, placement, and routing	Timing and power estimation, modeling, and optimization
Clock and power networks	Circuit analysis and optimization in a physical design context
Post layout and post-silicon optimization	Data management, multi-threaded/distributed algorithms
Design for manufacturability and yield	Hot topics such as machine learning and hardware security
Physical synthesis	3D ICs, quantum circuits, and other emerging technologies

IMPORTANT DATES

Title and abstract submission deadline	September 30, 2022
Full manuscript submission deadline	October 7, 2022
Acceptance notification	November 11, 2022
Camera-ready paper and speaker registration due	January 30, 2023
Symposium	March 26-29, 2023

SUBMISSION OF PAPERS

All papers must be submitted electronically via <https://easychair.org/conferences/?conf=ispd2023>. Details will be posted on the ISPD website, <http://www.ispd.cc>. Authors must submit full-length, original papers, with a maximum of 8 pages using the ACM template, <https://www.acm.org/publications/proceedings-template>, in PDF format. Failure to comply with the page length limit, format, or the requirements below will result in the paper being rejected.

Previously published papers or papers currently submitted for publication elsewhere will not be considered. If related papers have been published or submitted elsewhere, clearly state the differences in the current submission. All submitted papers will be under blind review. They must not include the names or affiliations of the authors in the paper, abstract, or in the embedded PDF data. References to the authors' works must be in the third person. Papers with open-source software (e.g., on GitHub) are highly encouraged, but please do not include a direct link to the non-anonymized software in your submission, instead indicate the open-source contribution in the text.

The symposium proceedings will be published in the ACM Digital Library. ISPD recognizes excellent contributions with a Best Paper Award, selected from among the submitted papers. There is a US\$1,000 award for the best paper, and a smaller award for best paper candidates.

One speaker per accepted paper must register for ISPD 2023, provide slides and videos of their presentation, and attend live discussions in the online session. The slides will be published on the ISPD website. The authors will retain the copyright for the slides and videos, which will be posted on a private YouTube channel for ISPD 2023.

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For an accepted paper, authors must [obtain an ORCID ID](#) to publish it. ACM is rolling this out as a requirement in 2022 – please see the [frequently asked questions](#) for more details. This is to improve author discoverability, ensure proper attribution and help community efforts around name normalization.