



OSDA

3rd Workshop on Open-Source Design Automation (OSDA 2023)

Scope of the workshop and target audience

OSDA intends to provide an avenue for industry, academics, and hobbyists to collaborate, network, and share their latest visions and open-source contributions, with a view to promoting reproducibility and re-usability in the design automation space. DATE provides the ideal venue to reach this audience since it is the flagship European conference in this field -- particularly poignant due to the recent efforts across the European Union (and beyond) that mandate “open access” for publicly funded research to both published manuscripts as well as software code necessary for reproducing its conclusions. A secondary objective of this workshop is to provide a peer-reviewed forum for researchers to publish “enabling” technology such as infrastructure or tooling as open-source contributions -- standalone technology that would not normally be regarded as novel by traditional conferences -- such that others inside and outside of academia may build upon it. To achieve this, we intend to issue a call for 6-page papers with oral presentation, 2-page paper with poster presentation, as well as demos, and to make the workshop proceedings available under a permissive license from arXiv.

Topics

Description of Topics, including but not limited to:

Open-source EDA tools -- the latest developments, breakthroughs, challenges and surveys on the toolflows required to target real silicon parts: synthesis, verification, place and route, etc.

Open-source IP -- contributions that enrich the IP ecosystem and reduce the need to “re-invent the wheel”, e.g. PCIe and DDR controllers, debug infrastructure, etc.

Design methodologies provided as open-source -- such as hardware description languages (e.g. MyHDL, Chisel), domain specific (DSL), high level synthesis (HLS), or asynchronous methods.

Directions on where the open-source EDA movement should go, current weaknesses in the toolchain, and/or perspectives from industry on how open-source can affect aspects of safety, security, verification, IP protection, time-to-market, datacenter/cloud infrastructure, etc.

Discussions and case studies on how to license, acquire funding, and commercialize technologies surrounding open-source hardware, which may be different to open software.

Submission instructions

Prospective authors are invited to submit original contributions (up to six pages), extended abstracts describing work-in-progress or position papers (not exceeding two pages), and demo proposals that would be of general interest. Papers must be submitted as an A4-sized PDF, in the IEEE conference format.

In line with OSDA’s mission, we encourage and will favour submissions that make all artifacts used for experimentation (benchmarks, code, etc.) available for private peer-review. Accepted submissions are required to publish these artifacts under an OSI-approved (preferably permissive) license.

The proceedings of this workshop containing all accepted papers will be published on the open-access arXiv repository. Every accepted paper must have at least one author registered to attend the workshop by January 31, 2023. Selected papers may also be considered for a special-issue journal.

Please submit your manuscript at <https://easychair.org/conferences/?conf=osda2023>.

Important Dates

Event	Date
Submission Deadline	Nov. 30, 2022
Notification	Dec. 21, 2022
Camera-ready final version	Jan. 31, 2023
Workshop	Some half day within April 17--19, 2023

Program committee

- *Andrea Borga*, oliscience, Netherlands
- *Xin Fang*, Qualcomm, USA
- *Steve Hoover*, Redwood EDA, USA
- *Christian Krieg*, TU Wien, Austria
- *Mieszko Lis*, University of British Columbia, Canada
- *Steffen Reith*, RheinMain University of Applied Sciences, Germany
- *Nima Taherinejad*, University of Heidelberg, Germany
- *Claire Xenia Wolf*, YosysHQ, Austria

Organizing committee

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Contact

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Please regularly visit the workshop website at <https://osda.ws> to check for updates. Also consider following OSDA on Twitter: https://twitter.com/osda_ws