

Guidelines for Submission to HPCA 2023

HPCA 2023 Submission #NaN – Confidential Draft – Do NOT Distribute!!

Abstract—This document is intended to serve as the acceptable formatting sample for submissions to the IEEE International Symposium on High-Performance Computer Architecture (HPCA-29), February 25–March 01, 2023 in Montreal, QC, Canada. This document provides guidelines that authors should follow when submitting papers to the conference. This format is derived from the IEEE conference template IEEEtran.cls file with the objective of keeping the submission similar to the final version, i.e., the IEEEtran.cls template will also be used for the camera-ready version.

I. INTRODUCTION

This document provides instructions for submitting papers to HPCA 2023. In an effort to respect the efforts of reviewers and in the interest of fairness to all prospective authors, we request that all submissions to HPCA 2023 follow the formatting and submission rules detailed below. Submissions that violate these instructions may not be reviewed, at the discretion of the Program Chair, in order to maintain a review process that is fair to all potential authors. This document is itself formatted using the HPCA 2023 submission format. The content of this document mirrors that of the submission instructions that appear on the conference website. All questions regarding paper formatting and submission should be directed to the Program Chair.

A. Format Highlights

Here are the format highlights in a nutshell:

- Paper must be submitted in printable PDF format.
- Text must be in a minimum 10pt Times font, see Table I.
- Papers must be at most 11 pages (not including references) in a two-column format.
- No page limit for references.
- Each reference must specify *all* authors, i.e., no *et al.*

B. Paper Evaluation Objectives

The committee will make every effort to judge each submitted paper on its own merits. There will be no target acceptance rate. We expect to accept a wide range of papers with appropriate expectations for evaluation — while papers that build on significant past work with strong evaluations are valuable, papers that open new areas with less rigorous evaluation are equally welcome and especially encouraged. We also acknowledge the wide range of evaluation methodologies including modeling, simulation, prototyping, experimental implementation, real product evaluation, etc.

II. PAPER PREPARATION INSTRUCTIONS

A. Paper Formatting

Papers must be submitted in printable PDF format and should contain a *maximum of 11 pages* of single-spaced two-

column text, **not including references**. You may include any number of pages for references, but see below for more instructions. If you are using L^AT_EX [1] to typeset your paper, then you should use the template used to prepare this document, which you can find on the HPCA 2023 website. If you use a different software package to typeset your paper, then you should adhere to the guidelines given in Table I.

TABLE I
FORMATTING GUIDELINES FOR SUBMISSION.

Field	Value
File format	PDF
Page limit	11 pages, not including references
Paper size	US Letter 8.5in × 11in
Top margin	1in
Bottom margin	1in
Left margin	0.75in
Right margin	0.75in
Body	2-column, single-spaced
Space between columns	0.25in
Line spacing (leading)	12pt
Body font	10pt, Times
Abstract font	9pt, Times, bold
Section heading font	12PT, SMALL CAPS, ROMAN NUMBERING (I, II, ...)
Subsection heading font	<i>10pt, italic, Alpha numbering (A, B, ...)</i>
Caption font	9pt (minimum)
References	8pt, no page limit, list all authors' names

Please ensure that you include page numbers with your submission. This makes it easier for the reviewers to refer to different parts of your paper when they provide comments. Please ensure that your submission has a banner at the top of the title page, similar to this document, which contains the submission number and the notice of confidentiality. If using the template, just replace ‘NaN’ with your submission number.

B. Content

Reviewing will be *double blind* (no author list); therefore, please do not include any author names on any submitted documents except in the space provided on the submission form. You must also ensure that the metadata included in the PDF does not give away the authors. If you are improving upon your prior work, refer to your prior work in the third person and include a full citation for the work in the bibliography. For example, if you are building on *your own* prior work in the papers [2]–[4], you would say something like: “While the authors of [2]–[4] did X, Y, and Z, this paper additionally does W, and is therefore much better.” Do NOT omit or anonymize references for blind review. There is one exception to this for your own prior work that appeared in IEEE CAL, arXiv, workshops without archived proceedings, etc. as discussed later in this document.

Figures and Tables: Ensure that the figures and tables are legible. Please also ensure that you refer to your figures in the main text. Many reviewers print the papers in gray-scale. Therefore, if you use colors for your figures, ensure that the different colors are highly distinguishable in gray-scale.

References: There is no length limit for references. *Each reference must explicitly list all authors of the paper. Papers not meeting this requirement will be rejected.* Since there is no length limit for the number of pages used for references, there is no need to save space here.

III. PAPER SUBMISSION INSTRUCTIONS

A. Guidelines for Determining Authorship

IEEE guidelines dictate that authorship should be based on a *substantial intellectual contribution*. It is assumed that all authors have had a significant role in the creation of an article that bears their names. In particular, the authorship credit must be reserved only for individuals who have met each of the following conditions:

- 1) Made a significant intellectual contribution to the theoretical development, system or experimental design, prototype development, and/or the analysis and interpretation of data associated with the work contained in the article;
- 2) Contributed to drafting the article or reviewing and/or revising it for intellectual content; and
- 3) Approved the final version of the article as accepted for publication, including references.

A detailed description of the IEEE authorship guidelines and responsibilities is available online.¹ Please keep these guidelines in mind while determining the author list of your paper.

B. Declaring Authors

Declare all the authors of the paper upfront. Addition/removal of authors once the paper is accepted will have to be approved by the Program Chair, since it potentially undermines the goal of eliminating conflicts for reviewer assignment.

C. Areas and Topics

Authors should indicate specific topics covered by the paper on the submission page. If you are unsure whether your paper falls within the scope of the conference, please check with the Program Chair — HPCA is a broad, multidisciplinary conference and encourages new topics.

D. Declaring Conflicts of Interest

Authors must register all their conflicts on the paper submission site. Conflicts are needed to ensure appropriate assignment of reviewers. If a paper is found to have an undeclared conflict that causes a problem OR if a paper is found to declare false conflicts in order to abuse or “game” the review system, the paper may be rejected.

¹https://www.ieee.org/publications_standards/publications/rights/Section821.html

Please declare a conflict of interest with the following people for any author of your paper. A conflict occurs in the following cases:

- 1) Between advisors and advisees, forever.
- 2) Between family members, forever (if they might be potential reviewers).
- 3) Between people who have collaborated in the last 5 years. This collaboration can consist of a joint research or development project, a joint paper, or when there is direct funding from the potential reviewer (as opposed to company funding) to an author of the paper. Co-participation in professional activities, such as tutorials or studies, is not a cause for conflict. When in doubt, the author should check with the Program Chair.
- 4) Between people from the same institution, who were in the same institution in the last 5 years, or where one of them is being actively considered for employment (e.g. invitation for interview) by the other person’s institution.
- 5) When there is funding involving the potential reviewer (as opposed to merely funding from the reviewer’s company).
- 6) Between people who are members of the same research center where unpublished work is regularly discussed (e.g., at review meetings).
- 7) Between people whose relationship prevents the reviewer from being objective in their assessment.
- 8) There may be others not covered by the above with whom you believe a COI exists, for example, an ongoing collaboration which has not yet resulted in the creation of a paper or proposal. Please report such COIs; however, you may be asked to justify them. Please be reasonable. For example, you cannot declare a COI with a reviewer just because that reviewer works on topics similar to or related to those in your paper. The Program Chair may contact co-authors to explain a COI whose origin is unclear.

The following scenarios do not constitute a conflict:

- 1) Authors of previously-published, closely related work on that basis alone.
- 2) “Service” collaborations such as co-authoring a report for a professional organization, serving on a program committee, or co-presenting tutorials.
- 3) Co-authoring a paper that is a compendium of various projects, community-wide tools (e.g., gem5), non-research articles, and working groups (e.g. RISC-V) with no true collaboration among the co-authors.
- 4) People who work on topics similar to or related to those in your papers.
- 5) People under the same umbrella funding award where there is no close collaboration, no discussion of unpublished work, and no joint benefit in the paper being published.

Most reviews will be solicited among the members of the PC and the ERC, but other members from the community may also write reviews. Please declare all your conflicts (not just

restricted to the PC and ERC) on the submission form. When in doubt, contact the Program Chair.

E. Revision of Previously-Reviewed Manuscript

If the manuscript has been previously reviewed and rejected and is now being re-submitted to HPCA, the authors are encouraged to provide, by the paper deadline, an optional letter explaining how the paper has been revised for this current submission. We expect this revision information to both improve submissions and the review process.

We encourage you to keep this letter concise and to the point: you are highlighting the differences to previous versions that improve the paper and address prior reviewer concerns. This letter is not required for submission. Authors who wish to submit one have control about who and when this letter will be shared with, by specifying one of the following options:

- 1) First submission (no letter to upload)
- 2) Shared immediately with all reviewers
- 3) Shared along with rebuttal
- 4) Shared upon explicit request naming prior reviewed venue (upload for PC chair only)
- 5) Shared only with paper discussion lead (upload for PC chair only)
- 6) Do not wish to share

If the authors select Option 6, meaning they do not wish to share this information, a minimalistic letter can be uploaded for the PC Chair only. The deadline for the letter is the same as the paper deadline. If you fail to upload a revision letter by the paper deadline, contact the PC Chair.

F. ArXiv Submissions

Authors may submit their work to HPCA 2023 for publication even if the paper has been submitted to or currently appears on Arxiv. However, please do recognize that Arxiv submissions cause serious issues with the double-blind review process. The PC chair has already advised the PC/ERC members not to consider Arxiv submissions in their evaluation. However, we encourage the authors to reduce the possibility of their name being disclosed. While there is no magical solution to hide from the power of web search in locating Arxiv papers, we encourage authors to avoid substantially similar titles abstract etc., to reduce this match.

G. Concurrent Submissions and Workshops

By submitting a manuscript to HPCA 2023, the authors guarantee that the manuscript has not been previously published or accepted for publication in a substantially similar form in any conference, journal, or the archived proceedings of a workshop (e.g., in the ACM/IEEE digital libraries) — see exceptions below. The authors also guarantee that no paper that contains significant overlap with the contributions of the submitted paper will be under review for any other conference or journal or an archived proceedings of a workshop during the HPCA 2023 review period. Violation of any of these conditions will lead to rejection.

The only exceptions to the above rules are for the authors' own papers in (1) workshops without archived proceedings such as in the ACM/IEEE digital libraries (or where the authors chose not to have their paper appear in the archived proceedings), or (2) venues such as IEEE CAL or arXiv where there is an explicit policy that such publication does not preclude longer conference submissions. In all such cases, the submitted manuscript may ignore the above work to preserve author anonymity. This information must, however, be provided on the submission form — the Program Chair will make this information available to reviewers if it becomes necessary to ensure a fair review. As always, if you are in doubt, it is best to contact Program Chair.

Finally, the ACM/IEEE Plagiarism Policies² cover a range of ethical issues concerning the misrepresentation of other works or one's own work.

ACKNOWLEDGEMENTS

This document is an updated version of HPCA 2022, which, in turn, has been derived from two previous conferences, in particular HPCA 2021 and MICRO 2021, which, in turn, are derived from past MICRO, HPCA, ISCA, and ASPLOS conferences.

REFERENCES

- [1] L. Lamport, *LaTeX: A Document Preparation System*, 2nd ed. Reading, Massachusetts: Addison-Wesley, 1994.
- [2] F. Lastname1 and F. Lastname2, "A very nice paper to cite," in *Proceedings of the 26th IEEE International Symposium on High Performance Computer Architecture*, 2016.
- [3] F. Lastname1, F. Lastname2, and F. Lastname3, "Another very nice paper to cite," in *Proceedings of the 48th Annual IEEE/ACM International Symposium on Microarchitecture*, 2015.
- [4] F. Lastname1, F. Lastname2, F. Lastname3, F. Lastname4, F. Lastname5, F. Lastname6, F. Lastname7, F. Lastname8, F. Lastname9, F. Lastname10, F. Lastname11, and F. Lastname12, "Yet another very nice paper to cite, with many author names all spelled out," in *Proceedings of the 38th Annual International Symposium on Computer Architecture*, 2011.

²http://www.acm.org/publications/policies/plagiarism_policy
https://www.ieee.org/publications_standards/publications/rights/plagiarism_FAQ.html