The cs-techrep CTAN Package and LaTeX Class Formatting Example: TechRep in Computer Science

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Abstract—**This paper demonstrates an example of a technical report in computer science or software engineering, based on the `cs-techrep` LaTeX class. The example is intended for beginners, e. g., undergraduate students. It contains a basic outline template and usually fills it with dummy text, but some sections are describing the intent of the outline template and its sections. Graphic exclamation marks highlight important remarks.**

Index Terms—**template; lorem ipsum.**

{⚠The abstract does neither mention a thesis in which context a technical report is written nor an institution or any other organizational aspects. It is a summary of the content of the technical report, thus, usually the objectives and architecture of a piece of software. Do NOT remove the abstract, this section is mandatory. Do NOT use special characters, symbols, or math in your title or abstract. Do NOT use references in the abstract, avoid abbreviations or acronyms. The abstract must look as one paragraph only. Ideally, end the abstract with one sentence stressing out the main output of the paper.}

I. Introduction

The cs-techrep formatting is adopted both from IEEE [1] and IARIA [2] styles. The cs-techrep LaTeX class is based on IEEEtran class [3]. In addition, be aware of the ⚠ IARIA editorial rules [4] that provide a compact, online-available, and beginner-friendly set of further advices.

{⚠ For beginners: Familiarize yourself with IMRaD [5], the predominant structure for organizing research articles. Additionally, ensure you have a solid understanding of technical reports as a form of scientific literature, at minimum, as outlined on Wikipedia [6]. Be cautious not to adopt an oversimplified interpretation of the TechRep term.}

It is recommended to use a grammar tool, e. g., the LanguageTool [7] browser plugin in combination with Overleaf [8]. The `cs-techrep.cls` is intended for ⚠ `pdflatex` plus `biblatex` / `biber` as TeX stack.

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{⚠ Recommendation: Introduction must end with a paragraph describing the structure of the paper!} The remainder of the paper is organized as follows: In Section II, ...

II. Methods | Related Work

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III. Results

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IV. Discussion | Evaluation

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V. Conclusion

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{⚠ For beginners: you must NOT leave the bibliography blank. Add appropriate references to your related work.}
{⚠ Recommendation: bibliographic @ONLINE entries should have an urldate property as access date.}

References

[1] IEEE. *Conference Template and Formatting Specifications*. 2018. URL: https://www.ieee.org/content/dam/ieee-org/ieee/web/org/conferences/Conference-template-A4.doc (visited on 03/10/2025).

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[6] Wikipedia. *Technical report*. URL: https://en.wikipedia.org/wiki/Technical_report (visited on 03/10/2025).

[7] LanguageTooler GmbH. *LangueTool*. URL: https://languagetool.org/overleaf (visited on 03/10/2025).

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