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Submission Summary

<div>Conference Name</div> <div>Pacific-Asia Conference on Knowledge Discovery and Data Mining</div>
<div>Track Name</div> <div>Research Track</div>
<div>Paper ID</div> <div>5</div>
<div>Paper Title</div> <div>Detection and Correction of Grammatical Errors</div>
<div>Abstract</div> <div> <p>This study dives into the topic of grammatical error correction (GEC), an important area of natural language processing (NLP) that aims to improve textual content by identifying and rectifying grammatical errors. There is a growing demand for automated methods to improve the grammatical quality of text due to the increasing importance of written communication across sectors. Our research introduces novel approaches to improving GEC systems, namely by adapting the gT5 model for use in correcting errors across many languages. Extensive experiments indicate that our method has the potential to significantly improve the quality of written English in a wide variety of settings. The C4_200M GEC dataset, a hand-picked set of 185 million phrase pairings from the clean C4 corpus, is used in the article. Incorporating tagged corruption models, this dataset created by Google researchers provides synthetic training data for GEC that accurately reflects a wide variety of grammatical faults. To demonstrate the potential of our method in the context of large-scale GEC applications, we conduct analyses on a dataset that has been divided into training, testing, and validation subsets.</p> </div>
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<div>Primary Subject Area</div> <div>Methods and algorithms -> Model selection and evaluation</div>
<div>Secondary Subject Areas</div> <div>Methods and algorithms -> Deep learning</div>
<div>Submission Files</div> <div>Paper_springer format.pdf (160.1 Kb, 9/5/2023, 10:48:14 PM)</div>
<div>Submission Questions Response</div> <div>1. Eligibility for student paper award</div>

Is (Are) the primary author(s) of this work a registered student (students) at the time of submission?

Yes

2. Submission Policy

I understand and confirm that:

- 1) This submission represents new and original work.*
- 2) Concurrent submissions are not allowed.*
- 3) This paper (or a substantially similar one) was not published in or accepted to any peer-reviewed journal or conference or workshop with published proceedings, is not currently under review, and will not be submitted to other meetings or publications while under review of PAKDD 2024.*
- 4) If the submission is available in arXiv, the last submission date is on or before the date of one month before the submission deadline.*
- 5) PAKDD has a strict policy against plagiarism and self-plagiarism. All previously published work must be appropriately cited.*
- 6) If this paper is accepted, at least one author will complete the regular registration and attend the conference to present the paper. For no-show authors, the paper will not be included in the proceedings.*
- 7) The submission adheres to the format guidelines specified in the call for papers.*
- 8) Conflicts of interest are disclosed completely and correctly in the CMT system.*

Agreement accepted
