



# Grammarly vs. AJE Digital Editing

## Which AI-based Editing Tool is Most Effective for Research Institutions?

[www.aje.com](http://www.aje.com)

601 West Main St, 201

27701, Durham, NC, USA

[businessdevelopment@researchsquare.com](mailto:businessdevelopment@researchsquare.com)

 AJE<sup>®</sup> Digital

A division of  
 Research Square  
Company

# Grammarly vs. AJE Digital Editing



At literally all research institutions throughout the world, native and non-native English speaking researchers are challenged when editing grant proposals, academic articles, and other scholarly works. Editing is especially time consuming, collectively taking millions of hours away from research and teaching efforts each year.

Both Grammarly and Research Square Company's AJE Digital Editing tool offer AI-based editing solutions for institutional researchers, but which service is better for academic disciplines?

We uploaded identical academic papers from across science and engineering into AJE Digital Editing and Grammarly and recorded the results.

We found the AJE Digital Editing tool bested Grammarly in all three categories studied: actionable edits, thoroughness, and phrasal improvement.

## Our superior AJE Digital Editing tool offers institutional licensing to:

**1. Save your researchers thousands of hours, giving them more time to conduct research.**

**2. Improve the quality of your researchers' manuscripts before they are submitted to international SCI-listed journals, increasing chances of publication and citations.**

**3. Ensure that your research proposals are set up for funding success when reviewed by potential sponsoring organizations.**

**4. Drive up the international ranking of your institution.**

**VIEW OUR DETAILED COMPARISON - PLUS LEARN MORE ABOUT THE FEATURES AND BENEFITS OF AJE DIGITAL EDITING TOOL - IN THE FOLLOWING PAGES.**

## Comparison Area 1: Actionable Edits

*Actionable edits defined: Will the writer, after reviewing edits and markups, understand what actionable changes should be made to improve their paper? This is especially crucial for non-native English-language speakers.*

Grammarly marked sentences as unclear, denoted by the blue underlined words in the excerpt below. Vague suggestions such as this provide authors no actionable help for improvement. This can be especially frustrating for researchers who speak English as a foreign language.

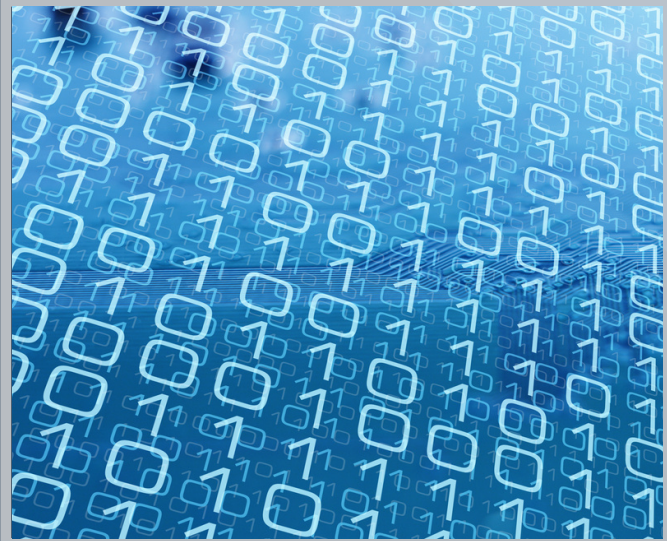
effective. The thickness of EPS of 6~10cm is enough to protect permafrost in another research (Liu and Tian 2002).<sup>155</sup> To sum up the above results, the

AJE Digital Editing, however, made specific edits to improve phrasing and word usage, making it more helpful and inclusive to the broader research community. This excerpt from a civil engineering paper illustrates.

that an XPS board ~~with 9cm of 9 cm~~ is effective. ~~The An EPS thickness of EPS of 6-10cm is enough-6~10 cm~~ was sufficient to protect permafrost in another ~~research~~ study (Liu and Tian 2002). To ~~sum up~~ summarize the above results, the thickness in this paper is ~~10cm~~ 10 cm.

## Comparison Area 2: Thoroughness

*Thoroughness defined: Did either of the tools thoroughly identify unclear or erroneous sentences within technical, field-specific writing? One of the main criticisms often leveled at general AI editing tools like Grammarly is that they are unable to adjust field-specific language nuances.*



Among all the scientific papers tested, there were instances where Grammarly missed opportunities to flag unclear sentences or field-specific errors.

Human GPR55 (GenBank™ accession number NM\_005683.3) cDNA was PCR amplified from cDNA reverse transcribed from total RNA extractive of LM-MCF-7 cells. The luciferase reporter vectors of HBXIP and Capn4 promoters,

AJE Digital Editing, however, flagged those field-specific errors. This highlighted excerpt illustrates...

Human GPR55 (GenBank™ accession number NM\_005683.3) cDNA was PCR amplified from cDNA reverse ~~transcribed~~transcribed from total RNA ~~extractive~~ofextracted from LM-MCF-7 cells. The luciferase reporter vectors of HBXIP and Capn4 promoters, HBXIP siRNA



## Comparison Area 3: Phrasal Improvement

*Phrasal Improvement defined:  
How thorough were each of  
the editing tools' suggestions?  
Did they make phrasal  
improvements across  
individual phrases or across  
entire sentences?*



Grammarly focused on changing words and phrases in isolated sections of the sentence.

<sup>115</sup>  
Rotated tooth was the second teeth abnormality most found in this sample; it  
was observed in 142 out of 437 patients (32.4% of the dental abnormality), <sup>117</sup> <sup>11</sup>  
the central incisor was the most frequent with this characteristic.

AJE Digital Editing made more holistic changes to sentences, providing overall phrasal improvement, as shown below in this pediatrics paper.

Rotated ~~tooth was~~teeth were the second ~~teeth~~ most common tooth abnormality  
~~most~~ found in this sample; ~~it was~~ rotated teeth were observed in 142 out of 437 patients  
(32.4% of the dental abnormality), and the central incisor was the most frequent with  
this characteristic.

# The Bottom Line

---

Research Square Company's AJE Digital Editing tool is superior to Grammarly in academic and research settings, particularly in the sciences and engineering.

Hundreds of editors with advanced degrees across hundreds of disciplines helped train this powerful AJE Digital Editing tool. Using proprietary AI-based technology trained by millions of human edits to academic papers covering nearly 450 areas of study, we've developed a product that provides:

- Comprehensive editing capability, with the ability to reorganize entire sentences while also editing for grammar, diction, clarity, word choice, and more.
  - A tool that will enhance an academic paper, not change its meaning.
  - More control, along with the ability to display all markups in a finished document.
  - A superior ability to find errors and make actionable suggestions among technical language.
  - The ability to save thousands of work hours for researchers across the institution, freeing up time for them to focus on research and education.
  - The huge added benefit of time and cost savings for institutions.
- 



# Discover how our AI-based tools can positively impact research productivity at your institution.

---

**CONTACT [BUSINESSDEVELOPMENT@RESEARCHSQUARE.COM](mailto:BUSINESSDEVELOPMENT@RESEARCHSQUARE.COM) TO LEARN MORE AND SET UP A FREE DIGITAL EDITING TRIAL FOR YOUR ENTIRE RESEARCH GROUP OR INSTITUTION.**

- Save your researchers thousands of hours, giving them back more time to conduct research
- Improve the quality of your researchers' manuscripts before they are submitted to international SCI-listed journals, increasing their chances of publication and increasing citations.
- Ensure that your research proposals are free from errors and can therefore be judged simply on merit. Set-up your institution for funding success when facing review by potential sponsoring organizations.

