Review of: "On a New Two-Point Taylor Expansion With Applications"

Amarender Reddy Kommula

Potential competing interests: No potential competing interests to declare.

The paper introduces a new two-point Taylor expansion method, which presents interesting insights into mathematical analysis. The methodology is well-structured, and the author demonstrates a thorough understanding of the subject matter. However, the paper lacks clarity in demonstrating the superiority of the new expansion over the classical one. Addressing this point is crucial for strengthening the paper's argument. Additionally, there are some typographical errors that need correction, and the theoretical foundations could be further expanded to include more detailed explanations, especially regarding the convergence behavior in cases where the convergence intervals are disjoint. Furthermore, it would be beneficial to include more applications, particularly in the context of solving classical nonlinear ordinary differential equations, to showcase the practical significance of the proposed method. Overall, with revisions addressing these points, the paper has the potential for publication, given its valuable contributions to the field of mathematical analysis.