

Review Form 3

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_129681
Title of the Manuscript:	JOMATOPFE'S LR-TYPE TABULAR FUZZY ARITHMETIC
Type of the Article	Original Research Article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</p>	<ul style="list-style-type: none"> ➤ Advancement in Fuzzy Arithmetic: Introduces an efficient LR-type approach for computing kernels and supports of trapezoidal fuzzy numbers. ➤ Practical and Time-efficient: Proposes a tabular method that eliminates the need for alpha-cut techniques, reducing computational complexity. ➤ Wide Applicability: Offers valuable tools for fields like artificial intelligence, decision-making, and control systems, where fuzzy logic plays a crucial role. ➤ Enhanced Accuracy and Scalability: Paves the way for more robust and scalable fuzzy inference systems, addressing computational challenges effectively. ➤ Impact on Scientific Community: Provides a foundation for tackling complex problems under uncertainty, advancing research in fuzzy logic and its applications. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The current title, "JOMATOPFE'S LR-TYPE TABULAR FUZZY ARITHMETIC", may seem highly specialized, but it lacks immediate clarity for readers unfamiliar with the context. To make it more suitable for a broader scientific audience while retaining its technical essence, here one best alternative suggestion:</p> <p>"A Novel LR-Type Tabular Approach to Fuzzy Arithmetic Using JOMATOPFE".</p>	

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<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract effectively outlines the paper's objectives and contributions. To enhance clarity and conciseness, consider the following revisions:</p> <ul style="list-style-type: none"> ➤ Clarify the Advantage of the Proposed Approach: Explicitly state how computing kernels and supports simultaneously reduces the complexity compared to traditional alpha-cut methods. ➤ Emphasize the Role of Python-Based User Interfaces: Highlight how these interfaces automate calculations, thereby improving efficiency and accessibility for researchers. ➤ Streamline the Comparative Study Description: Concise language can be used to describe the transformation of trapezoidal fuzzy numbers into LR form and the subsequent comparison with alpha-cut approaches. <p>Implementing these suggestions will make the abstract more concise and focused, effectively conveying the key aspects of your research.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Yes. The manuscript introduces an innovative LR-type tabular fuzzy arithmetic method that concurrently computes the kernels and supports of trapezoidal fuzzy numbers, enhancing efficiency over traditional α-cut approaches. By providing a clearer explanation of fundamental fuzzy logic concepts, it addresses common challenges faced by researchers in this domain. The development of Python-based user interfaces for automatic calculations further streamlines the process, reducing computation time and complexity. The comparative analysis between the α-cut method and the proposed approach offers valuable insights, potentially advancing the field of fuzzy arithmetic.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>References must be updated and it seems that authors need to refer to latest work to justify the current approach. Most of the references cited in the study are outdated.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes. The article demonstrates a strong foundation with valuable insights and a thorough exploration of the subject matter. Its detailed content reflects a commendable effort to address the topic comprehensively. With minor refinements to clarity, conciseness, and consistency, the article has significant potential to meet scholarly communication standards and engage its target academic audience effectively.</p>	
<p>Optional/General comments</p>	<p>The article presents a well-researched and insightful discussion, showcasing depth and dedication to the topic. To further enhance its impact, consider incorporating more real-world examples, refining transitions between sections, and ensuring definitions are clear. With these adjustments, the article can achieve greater coherence and engagement for academic readers.</p>	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes. Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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