

Review Form 3

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_124230
Title of the Manuscript:	Autonomous Vehicle Navigation: Integrating Fuzzy Logic Training with Neural Networks for Optimized Performance
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>The study's innovative approach, practical implications, and contributions to optimizing neural network training in autonomous vehicle navigation make it a noteworthy piece of research. It not only addresses current challenges but also provides a foundation for future advancements in the field.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes</p>	
<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>	<ol style="list-style-type: none"> 1. Briefly describe the specific challenge or gap in autonomous vehicle navigation that the paper addresses. 2. Clearly state the primary objectives of the study 3. Provide a brief, high-level overview of the methodologies used, including the integration of fuzzy logic and back-propagation. 4. Mention the practical implications of the findings and how they contribute to the field 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<ol style="list-style-type: none"> 1. The introduction should clearly outline the problem, objectives, and significance of the study. It sets the stage for the reader, providing background information and context. 2. Ensure smooth transitions between subsections to maintain coherence and readability. Each section should logically flow into the next. 	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript demonstrates scientific robustness and technical soundness through several key aspects. Firstly, the integration of a feed-forward neural network with a fuzzy logic-based trainer and the back-propagation algorithm reflects a sophisticated and innovative approach to addressing challenges in autonomous vehicle navigation, showcasing the authors' advanced understanding of neural network training methodologies. Secondly, the empirical findings are based on rigorous real-time testing on constrained hardware, which not only validates the proposed method's practicality but also ensures that the results are relevant and applicable to real-world scenarios. Thirdly, the study thoroughly examines the impact of track complexity and neural network dimensions on training performance, providing a detailed analysis that contributes valuable insights to the field. These elements collectively demonstrate that the manuscript is grounded in a solid theoretical framework and supported by methodologically sound research practices.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>To ensure the references are sufficient and recent, review the manuscript's reference list for coverage, relevance, and recency. Supplement any gaps with additional references from recent and influential studies to enhance the manuscript's foundation and credibility.</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The article may be accepted with the above comments</p>	
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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