

### Review Form 3

Journal Name:	<a href="#">Journal of Engineering Research and Reports</a>
Manuscript Number:	Ms_JERR_129339
Title of the Manuscript:	<b>Using Artificial Neural Networks (ANN) to Enhance Fault Identification, Classification, and Location on Transmission Line Network</b>
Type of the Article	<b>Original Research Article</b>

#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>	This manuscript addresses a critical challenge in power transmission systems by leveraging Artificial Neural Networks (ANN) to enhance fault identification, classification, and location. Its findings significantly contribute to ensuring reliability and operational efficiency in modern power grids, especially given the increasing complexity of these systems. The high accuracy achieved by the proposed ANN configurations demonstrates a promising solution for minimizing downtime and improving the resilience of power transmission networks.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title is appropriate and reflects the core aspects of the research. Alternatively, consider: <b>"Optimized ANN-Based Methodology for Fault Detection and Localization in Power Transmission Networks"</b>	
<b>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.</b>	The abstract is comprehensive, providing a clear overview of the objectives, methodology, and key findings. However, including specific accuracy results for fault classification and location alongside fault identification would enhance its impact.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript appears scientifically sound, supported by thorough methodology and robust results. The simulations and accuracy assessments validate its claims effectively.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The references are sufficient and recent, covering essential prior research. Adding more recent papers on hybrid ANN and alternative AI techniques might further enrich the literature review.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language is suitable for scholarly communication but could benefit from minor edits for grammatical precision and readability.	
<b>Optional/General</b> comments	The manuscript presents a detailed and systematic approach to enhancing fault analysis in transmission lines. Further exploration of ANN scalability for larger and more complex networks could add value.	

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**PART 2:**

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

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