Review Form 3

Journal Name:	**Journal of Advances in Mathematics and Computer Science**
Manuscript Number:	**Ms_JAMCS_126473**
Title of the Manuscript:	**Solving a Relaxed Min-Cost Redundancy Allocation Model with a Lagrange Multiplier and Newton's Method**
Type of the Article	**Mathematical paper**

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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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)*
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.	This manuscript addresses an essential area in system reliability engineering by focusing on relaxed redundancy allocation models, which are notably challenging due to their NP-hard nature. The approach of using Lagrange multipliers and Newton's method to determine an optimal solution provides a compelling and practical solution for complex, real-world systems.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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.	The work holds value for the scientific community, as it simplifies the traditionally complex redundancy allocation process and enhances computational efficiency in finding cost-effective and reliable solutions. The mathematical rigor in establishing bounds and convergence properties also ensures that the solution is robust and replicable across varied reliability requirements, making it a significant contribution to optimization and reliability engineering.	
Are subsections and structure of the manuscript appropriate?	appropriate	
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.	This manuscript is scientifically robust and technically sound as it provides a detailed, well-structured application of Newton's method in optimizing the Lagrange multiplier for minimum-cost redundancy allocation. The manuscript includes step-by-step proofs and adheres to mathematical principles, such as the Principle of Mathematical Induction and the Mean Value Theorem, ensuring the accuracy and reliability of the findings.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	**Yes.Sufficient.**	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Suitable.	
Optional/General comments		

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

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