

Review Form2

Book Name:	Mathematics and Computer Science: Contemporary Developments
Manuscript Number:	Ms_BPR_2573
Title of the Manuscript:	Optimizing on a Global Scale with Random Search
Type of the Article	Book chapter

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)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	This manuscript represents a significant contribution to the scientific community due to its innovative approach and thorough analysis of (stochastic optimization). Personally, I appreciate this manuscript for its clarity and originality, which not only deepen our knowledge but also set a new benchmark for future studies in the field	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article is suitable	
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 abstract of the article is comprehensive, Give a briefexplanation of the exact waysthatinheritance, mutation, selection, and crossover are implemented by GeneticAlgorithms (GAs). Mention, for example, how theseoperators are applied to generate and hone possible solutions. Describe the proceduressused for gathering and analysing the statistical data (average fitness value, averagenumber of generations). Werethesemeasurements, for example, averaged over severalruns or several issue instances?	
Are subsections and structure of the manuscript appropriate?	Yes	
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 minimumof 3-4 sentences may be required for this part.	The manuscript's thorough method of using Genetic Algorithms (GAs) to solve optimisation issues makes it both technically and scientifically solid. It faithfully combines the fundamental ideas of evolutionary theory such as heredity, mutation, crossover, and selection that underpin the GA technique. The algorithm's efficacy has been thoroughly examined by using statistical data to assess GA performance in particular, the average number of generations, and best fitness values. The manuscript's scientific legitimacy and technical correctness are further reinforced by the evident connection between theoretical principles and practical application, as well as by the comprehensive results and a well-supported conclusion.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient but not recent.	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language/English quality of the article is suitable.	
Optional/General comments	1- It is important to draw attention to the primary contributions. It is unclear which are since the authors' suggested remedy has been addressed and put into practice in several academic publications. 2- The authors of Section 1 ought to conduct a more thorough critical literature assessment to highlight the shortcomings of current methodologies, clearly describe the general direction of research, and assess the effectiveness of earlier studies. Which techniques are used? Which issue needs to be resolved still? Why is the suggested method appropriate for applying to the resolution of the important issue? More compelling literature evaluations are required to demonstrate the state-of-the-art in development. 3- Figure 3 should be explained better in the context of the mathematical model previously presented.	

PART 2:

	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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