

Review Form 3

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_129749
Title of the Manuscript:	Ant colony optimization for traveling salesman problem: A review
Type of the 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>
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.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.	Abstract is good. Nothing to change here	Thanks reviewer
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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Is the language/English quality of the article suitable for scholarly communications?		
<u>Optional/General</u> comments	<div><div><input type="checkbox"/> Incorporate extensive empirical investigations that evaluate the proposed ACO methodologies across diverse datasets. This would fortify the conclusions and illustrate the practical applicability of the algorithms.</div><div><input type="checkbox"/> Provide a comprehensive examination of how varying parameter configurations influence ACO performance. This would assist readers in grasping optimal settings and enhance the robustness of the conclusions.</div><div><input type="checkbox"/> Broaden the discourse surrounding practical applications of ACO in multiple domains such as logistics, emergency management, and vehicle routing. This would underscore the pertinence of the research and its prospective influence on industry practices.</div><div><input type="checkbox"/> Clearly delineate the limitations inherent in the current study and propose specific avenues for future inquiry. Such transparency can bolster the credibility of the manuscript and inform subsequent research endeavors in the field.</div><div><input type="checkbox"/> Include discussions on contemporary advancements in ACO, such as machine learning and quantum computing, to illustrate the manuscript's relevance in the swiftly evolving domain of optimization research.</div></div>	<div>Explained in theory section : 1.suggested a framework to improve supply chain inventory management by fusing machine learning, fuzzy logic, and Ant Colony Optimization (ACO). ACO optimized reorder points, machine learning enhanced demand forecasting, and fuzzy logic allowed for flexible decision-making. The strategy offered a workable and flexible substitute for conventional techniques and showed increased efficiency, forecast accuracy, and decreased inventory costs. 2. The Quantum Approximate Optimization Algorithm (QAOA) and parallel Ant Colony Optimization (ACO) were used to provide a hybrid technique for large-scale TSPs. ACO used pheromone sharing to refine solutions, while QAOA optimized subgraphs. The approach showed the potential of hybrid classical-quantum systems for effectively solving NP-hard problems by achieving near-optimal answers for bigger graphs and great accuracy on benchmark datasets.</div>

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)	