

REVIEWER'S REPORT

Manuscript No.: IJAR-58057

Title: The Role of Robot Personality in Enhancing Human Trust, Engagement, and Task Efficiency in Human-Robot Interaction.

Recommendation:

Accept as it is

Accept after minor revision.....yes.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality			Y	
Techn. Quality			Y	
Clarity			Y	
Significance			y	

Reviewer's ID: JPR-Dr.Shaweta sachdeva

Detailed Reviewer's Report

1. The manuscript requires a clearly defined research methodology. It is currently presented as a literature-based study, but the process for selecting, screening, and analyzing the literature is not adequately described.
2. The novelty and specific contribution of the study should be explicitly stated in the introduction to distinguish it from existing reviews on Human-Robot Interaction (HRI).
3. Several sections provide descriptive summaries of concepts without sufficient critical evaluation of the cited studies. A more analytical discussion would strengthen the academic quality of the manuscript.
4. The manuscript would benefit from a conceptual framework illustrating the relationship between robot personality, trust formation, user engagement, and task efficiency.
5. More recent empirical studies with quantitative findings should be incorporated to support claims regarding the effectiveness of personality-driven robots.
6. The discussion lacks comparative analysis of different robot personality traits (e.g., introvert vs. extrovert, empathetic vs. authoritative) and their varying impacts on user outcomes.
7. Greater attention should be given to cultural differences in robot acceptance and personality perception across different populations and regions.
8. The section on anthropomorphism should include a more detailed discussion of the "uncanny valley" phenomenon and its practical implications for robot design.
9. The manuscript should critically discuss potential negative consequences of excessive emotional attachment to robots, particularly in healthcare and elder-care settings.
10. Several references appear unrelated to Human-Robot Interaction and robotics. The authors should carefully verify all citations and ensure that each reference directly supports the corresponding discussion.
11. The quality and authenticity of some cited sources, including preprints and non-peer-reviewed publications, should be critically assessed before inclusion.
12. Ethical concerns should be expanded to address accountability in autonomous decision-making, explainable AI, data ownership, and legal liability in human-robot collaboration.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

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13. The manuscript would benefit from including case studies or real-world examples of personality-driven robots deployed in healthcare, education, industry, or customer service.
14. A dedicated subsection discussing the role of Large Language Models (LLMs) in shaping robot personality and conversational behavior would enhance the contemporary relevance of the work.
15. The chapter on task efficiency should include measurable performance indicators and empirical evidence demonstrating how personality traits influence productivity and collaboration outcomes.
16. More discussion is needed on the challenges of implementing adaptive and personalized robot personalities in real-world dynamic environments.
17. The recommendations section should provide more specific and actionable guidelines for robot designers, AI developers, and policymakers.
18. The conclusion largely summarizes previous sections; it should also highlight key theoretical implications and practical contributions of the study.
19. Future research directions should include longitudinal studies, cross-cultural investigations, explainable robotic behavior, and trust calibration mechanisms.
20. The manuscript requires thorough language editing to improve sentence structure, reduce repetition, and enhance overall academic writing quality.