

### Review Form 3

Journal Name:	<b>Journal of Scientific Research and Reports</b>
Manuscript Number:	<b>Ms_ JSRR _124022</b>
Title of the Manuscript:	<b>Intelligent Technologies to Support Waste Management</b>
Type of the Article	<b>Review Article</b>

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

<b>Compulsory</b> REVISION 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>
<p><b>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.</b></p>	<p>This manuscript addresses a topic of significant relevance to the solid waste management community, which is critical given the growing global emphasis on sustainability.</p> <p>However, while the subject matter holds promise, the depth of the review is disappointingly shallow.</p> <p>The article fails to provide a comprehensive analysis or offer valuable insights into the current trends, challenges, and innovations within the field. As a result, it does not contribute meaningfully to advancing the knowledge base or guiding future research efforts in solid waste management.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p><b>The title is very straight forward which I think it is acceptable.</b></p>	
<p><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></p>	<p><b>As a reviewer, I find the abstract somewhat unfocused and lacking clarity. While the topic of using ICT and AI for smart solid waste management is both relevant and timely, the abstract tries to cover too many aspects without providing a clear, cohesive narrative. It starts with a promising idea of categorizing ICT technologies used in SWM, which could have been more detailed or defined. However, the second half of the abstract diverges into general waste management concepts (e.g., recycling, reuse) and AI solutions without adequately tying these ideas together or clearly stating how they fit into the review's scope.</b></p> <p><b>Additionally, key technologies such as spatial, identification, and data transmission technologies are briefly mentioned but not sufficiently explained. The mention of AI applications like convolutional neural networks comes across as an afterthought rather than a central focus of the review.</b></p> <p><b>Overall, the abstract lacks coherence, failing to give the reader a clear understanding of what the manuscript will discuss in-depth or how it will contribute to advancing knowledge in the field. It would benefit from a more structured approach, focusing on the core technologies and their role in the future of SWM.</b></p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>As a reviewer, I find this section to be thorough in its exploration of intelligent technologies for waste management, but there are areas that could be improved to enhance clarity and focus. The paper covers a wide range of technologies, including IoT, AI, sensors, and data analytics, and effectively highlights their relevance in improving waste management processes, unfortunately the review is not comprehensively in-depth.</p> <p>However, the paper lacks a clear structure in some parts, particularly in tying together the different technologies and emphasizing their practical application in real-world settings. The abstract and introduction could benefit from tighter cohesion, as the text tends to meander between general waste management concepts and technological specifics without clearly linking them. Additionally, while the technologies are well-described, the paper would be stronger if it provided more critical analysis of the challenges and limitations of implementing these smart solutions, particularly in different geographical or economic contexts.</p>	
<p><b>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.</b></p>	<p>This manuscript lacks the scientific robustness expected of a journal paper. Rather than providing a critical, in-depth review of intelligent technologies for waste management, it offers only brief statements with minimal analysis. The paper fails to engage with current research or address key challenges in implementing these technologies, which significantly weakens its technical soundness. For a journal article, the lack of depth, detailed discussion, and critical evaluation makes the manuscript insufficient in contributing meaningful insights to the scientific community</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :</p>	<p>The references in this manuscript appear to be insufficient, both in number and in terms of their recency. A well-rounded review paper should provide a comprehensive list of up-to-date sources to reflect the latest advancements and trends in the field. However, this manuscript relies heavily on older studies and lacks citations from recent research that addresses current technological innovations in smart waste management, such as blockchain integration, machine learning advancements, and the latest IoT applications.</p>	

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	To improve the scientific credibility of this paper, I recommend including more recent studies published within the last 3-5 years. For instance, the latest reviews on AI applications in waste sorting and smart city waste management systems would provide greater depth. Additionally, references discussing the real-world challenges of implementing these technologies, particularly in developing countries or under-resourced areas, would strengthen the manuscript's relevance and scientific soundness.	
Minor REVISION comments  <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language and English quality of this article are not fully suitable for scholarly communication. While the general meaning is conveyed, there are several issues with clarity, coherence, and structure. The sentences are often disjointed, making the manuscript difficult to follow in some sections. Additionally, some phrases are vague, and technical terms are introduced without sufficient explanation, which hinders readability for a scholarly audience.  To improve the manuscript, I suggest revising for better sentence flow and clearer organization. Academic English should be used, especially when describing technologies, and technical terms should be defined where appropriate. Proofreading for grammatical accuracy and consistency in terminology would also enhance the article's suitability for academic publication.	
Optional/General comments		

**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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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