

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Computer Science</a>
Manuscript Number:	Ms_AJRCOS_126794
Title of the Manuscript:	Machine Learning-Enabled Smart Sensors for Real-time Industrial Monitoring: Revolutionizing Predictive Analytics and Decision-making in Diverse Sector
Type of the Article	

#### **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><u>Compulsory</u></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>
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.		
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.		
Are subsections and structure of the manuscript 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.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

**Review Form 3**

<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>	<p>This paper explores the integration of machine learning (ML) algorithms with smart sensors across various sectors, including manufacturing, energy, and healthcare. The study focuses on the impact of this integration on real-time industrial monitoring, predictive maintenance, and operational efficiency. I would suggest revisions as listed below:</p> <ol style="list-style-type: none"> <li>1. What specific challenges do industries face when integrating machine learning- enabled smart sensors with existing legacy systems, and how can these challenges be effectively addressed?</li> <li>2. Data assimilation is a important family of methods for system correction and monitoring, some references to build the related work: Data assimilation in the geosciences: An overview of methods, issues, and perspectives; Machine learning with data assimilation and uncertainty quantification for dynamical systems: a review; Multi-domain encoder–decoder neural networks for latent data assimilation in dynamical systems</li> <li>3. What are the most effective machine learning algorithms for predictive maintenance in industrial applications, and how do they compare in terms of accuracy and reliability?</li> <li>4. What role do standardized IoT protocols play in enhancing the interoperability of ML-enabled smart sensors across different industrial systems, and what are the barriers to achieving such standardization?</li> </ol>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (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)</p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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