

Review Form 1.7

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_119695
Title of the Manuscript:	A Review of Object Detection Algorithms based on Deep Learning
Type of the Article	Systematic Review

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajrcos.com/index.php/AJRCOS/editorial-policy>)

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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p>	<p>Yes, the manuscript addresses a topic of high importance and relevance, providing insights that are beneficial for the scientific community's ongoing research and development efforts.</p> <p>Yes</p> <p>The abstract would benefit from a more structured format. Consider the following structure:</p> <ul style="list-style-type: none"> • Introduction: Briefly introduce the importance of object detection and the impact of deep learning. • Problem Statement: Summarize the limitations of traditional methods. • Main Contributions: Highlight the focus on Two-Stage and One-Stage algorithms, key innovations, and experimental results. • Future Directions: Summarize the main future challenges and potential research directions. <p>The subsections and structure of the manuscript are generally appropriate but can be improved for better readability and coherence. The below structure ensures that the manuscript flows logically and covers all relevant aspects comprehensively.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Introduction <ul style="list-style-type: none"> • Importance of Object Detection • Evolution from Traditional to Deep Learning-Based Methods • Objectives of the Manuscript <input type="checkbox"/> Traditional Object Detection Algorithms <ul style="list-style-type: none"> • Overview and Examples • Limitations <input type="checkbox"/> Deep Learning-Based Object Detection Algorithms <ul style="list-style-type: none"> • Overview of Deep Learning in Object Detection • Two-Stage Algorithms <ul style="list-style-type: none"> ○ Examples and Principles (e.g., R-CNN, Fast R-CNN, Faster R-CNN) ○ Advantages and Disadvantages • One-Stage Algorithms <ul style="list-style-type: none"> ○ Examples and Principles (e.g., YOLO, SSD) ○ Advantages and Disadvantages • Comparative Analysis <input type="checkbox"/> Innovations and Advancements <ul style="list-style-type: none"> • Key Innovations (e.g., Feature Pyramids, Attention Mechanisms) • Impact on Performance 	

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<p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p><input type="checkbox"/> Challenges and Future Directions</p> <ul style="list-style-type: none"> • Designing Feature Networks • Multi-Modal Object Detection • High-Quality Datasets • Model Lightweighting • Object Detection based on GAN <p><input type="checkbox"/> Conclusion</p> <ul style="list-style-type: none"> • Summary of Key Points • Significance of Advancements • Future Research Directions <p><input type="checkbox"/> References</p> <p>The manuscript appears to be scientifically correct in its general claims and observations</p> <p>It seems that the manuscript could benefit from including more recent and seminal references, particularly those that reflect the latest advancements in deep learning-based object detection.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the article is generally suitable for scholarly communications, but there are areas that can be improved for better clarity, coherence, and professionalism like in Sentence Structure, Clarity and Precision, Grammar and Punctuation.</p>	
<p>Optional/General comments</p>		

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

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