

## Review Form 1.7

Journal Name:	<b>Journal of Experimental Agriculture International</b>
Manuscript Number:	<b>Ms_JEAI_99313</b>
Title of the Manuscript:	<b>SOYBEAN DISEASE DETECTION AND SEGMENTATION BASED ON MASK-RCNN ALGORITHM</b>
Type of the Article	<b>Original Research Article</b>

### **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.journaljeai.com/index.php/JEAI/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><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</li> <li>2. Is the title of the article suitable? (If not please suggest an alternative title)</li> <li>3. Is the abstract of the article comprehensive?</li> <li>4. Are subsections and structure of the manuscript appropriate?</li> <li>5. Do you think the manuscript is scientifically correct?</li> <li>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></li> </ol>		
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. Is language/English quality of the article suitable for scholarly communications?</li> </ol>		
<p><b>Optional/General</b> comments</p>	<p>The paper named 'Soybean Disease Detection And Segmentation Based On Mask-Rcnn Algorithm' proposes a real-time detector based on deep learning that provides a feasible solution for diagnosing soybean leaf diseases and provides guidance for the detection of other plant diseases. The mask- R-CNN was used in this study for disease detection in soybean leaf for timely prevention/remedial action taken by farmers and same time saving of pesticides for preventing environmental pollution.</p> <p>The paper is well written and to be considered for publication. The detailed comments are listed as below:</p> <ul style="list-style-type: none"> <li>• The authors clearly presented their contribution to the body of knowledge in the research perspective.</li> <li>• The authors presented well soybean disease detection and segmentation using Mask R-CNN algorithm with the backbone ResNet50. This approach has the potential to improve the efficiency and effectiveness of soybean disease management, which can benefit the agriculture industry and food security.</li> <li>• The paper is acceptable for publication.</li> </ul>	

### 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>	

### Reviewer Details:

Name:	N. Sharmili
Department, University & Country	GVP College of Engineering for Women, India