

## Review Form 1.7

Journal Name:	<b>Asian Journal of Research in Crop Science</b>
Manuscript Number:	<b>Ms_AJRCS_103281</b>
Title of the Manuscript:	<b>Digital Technologies in Crop Genotype Designing Methods: Scope, Limitations, and Future Perspectives</b>
Type of the Article	<b>Review 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.journalajrcs.com/index.php/AJRCS/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> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p><b>Yes. Authors have focussed on the AI approach for crop designing based on phenotyping and genotyping, which enables crop breeders to discover new crop variants adaptable to environmental changes and thus leading to sustainable development.</b></p> <p><b>Yes.</b></p> <p><b>Yes.</b></p> <p><b>Yes. However, a subsection on Datasets and their description used in AI studies needs to be included.</b></p> <p><b>Yes.</b></p> <p><b>Yes. However, the URLs of publicly available benchmark datasets also need to be provided.</b></p> <p><b>The description of benchmark or curated datasets used for AI experiments by various authors needs to be presented. Data size, labelling, training &amp; testing strategy, etc. shall be discussed. Performance comparison of different state of the art methods in terms of accuracy, precision, recall, F1 score, etc. needs to be given.</b></p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>English language usage needs improvement.</p>	
<p><b>Optional/General</b> comments</p>	<p>The authors have considered an important topic of digital technologies employed in crop genotyping for the review of literature on precision agriculture and sustainability. Specially, the AI based technologies are focussed. However, the description of relevant data used for AI experiments shall be given and the analysis of experimental results also be discussed.</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><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>	

**Reviewer Details:**

Name:	<b>Prakash S. Hiremath</b>
Department, University & Country	<b>KLE Technological University, India</b>