

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_101991
Title of the Manuscript:	Enhancing Agricultural Production with Digital Technologies – A Review
Type of the Article	

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.journalijecc.com/index.php/IJECC/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> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Paper Summary:</p> <p>The purpose of this study is to investigate the transformational influence of technological advances in the development of agricultural practises in India, revealing how they might improve production and sustainability. It examines a variety of innovations, including precision farming robots, artificial intelligence (AI), the Internet of Things (IoT), blockchain, and virtual reality/augmented reality (VR/AR). Agricultural precision maximises resource use while reducing environmental effect. Robotics makes automatic planting, harvesting, and weeding possible, increasing efficiency and decreasing the need for physical labour. The report backs up these ideas with detailed case studies that demonstrate actual effects on the ground. Nevertheless, it also carefully addresses the numerous problems that are impeding mainstream use of these technologies. The study concludes that while digital technologies have the potential to revolutionise agricultural practises, they must be addressed in order to realise their full potential.</p> <p>Paper Comments: The following statements are some comments about the paper:</p> <ol style="list-style-type: none"> 1. The introduction section can be furnished with some new papers like: <ol style="list-style-type: none"> a. For detection and recognizing robotic application; https://doi.org/10.4108/airo.v2i1.3056 b. for the recent deep learning usage: doi: 10.1109/ICSP54964.2022.9778676. c. G. Xu, A. Sohail Khan, A. J. Moshayedi, X. Zhang, and Y. Shuxin, "The Object Detection, Perspective and Obstacles In Robotic: A Review : ", <i>EAI Endorsed Trans AI Robotics</i>, vol. 1, no. 1, p. e13, Oct. 2022. d. N. M. I. Uddin, A. J. Moshayedi, H. Ian1, and Y. Shuxin, "The Face Detection / Recognition , Perspective and Obstacles In Robotic: A Review ", <i>EAI Endorsed Trans AI Robotics</i>, vol. 1, no. 1, p. e14, Dec. 2022. e. new used :DOI: . https://doi.org/10.4108/airo.v2i1.3181 f. doi: 10.1109/ICSPIS56952.2022.10044044. g. FOR vr application: A. Durojaye, A. Koolahdoz, A. Nawaz, and A. J. Moshayedi, "Immersive Horizons: Exploring the Transformative Power of Virtual Reality Across Economic Sectors", <i>EAI Endorsed Trans AI Robotics</i>, vol. 2, no. 1, p. e6, Jun. 2023. 2. Paper writing method and Quality <ul style="list-style-type: none"> • The motivation of the paper should be improved. And please write your research contribution with number order • Please check the whole manuscript for types and grammar errors. Language of the paper should be improved. • Some minor grammatical mistakes are there, read carefully and correct them. • Please clearly refer and write about your words data based and sample test • In the conclusion part please write the exact improvement number by using your proposed method. 3. Figures: <ul style="list-style-type: none"> • There is no reference to any of the figure inside the text. • Please refer to all figures inside the text, and explain what is shown in all figures. 	<p>Paper Summary:</p> <p>The purpose of this study is to investigate the transformational influence of technological advances in the development of agricultural practises in India, revealing how they might improve production and sustainability. It examines a variety of innovations, including precision farming robots, artificial intelligence (AI), the Internet of Things (IoT), blockchain, and virtual reality/augmented reality (VR/AR). Agricultural precision maximises resource use while reducing environmental effect. Robotics makes automatic planting, harvesting, and weeding possible, increasing efficiency and decreasing the need for physical labour. The report backs up these ideas with detailed case studies that demonstrate actual effects on the ground. 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Shuxin, "The Face Detection / Recognition , Perspective and Obstacles In Robotic: A Review ", <i>EAI Endorsed Trans AI Robotics</i>, vol. 1, no. 1, p. e14, Dec. 2022. e. new used :DOI: . https://doi.org/10.4108/airo.v2i1.3181 f. doi: 10.1109/ICSPIS56952.2022.10044044. g. FOR vr application: A. Durojaye, A. Koolahdoz, A. Nawaz, and A. J. Moshayedi, "Immersive Horizons: Exploring the Transformative Power of Virtual Reality Across Economic Sectors", <i>EAI Endorsed Trans AI Robotics</i>, vol. 2, no. 1, p. e6, Jun. 2023. 9. Paper writing method and Quality <ul style="list-style-type: none"> • The motivation of the paper should be improved.

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	<ul style="list-style-type: none"> • Make the text more visible inside figure 4, make the figure bigger, and explain it what is shown inside the figure. <p>4. Tables:</p> <ul style="list-style-type: none"> • No tables used. <p>5. Equations:</p> <ul style="list-style-type: none"> • No equations/algorithms used. <p>6. References:</p> <ul style="list-style-type: none"> • Please use the most recent references for the paper, i.e, starting from 2019 till date. <p>7. Authors are requested to make typesetting strictly according to the paper template on the journal website.</p> <p>This study has merit for publication. However, I would recommend a major revision to improve the quality of the manuscript.</p>	<p>And please write your research contribution with number order</p> <ul style="list-style-type: none"> • Please check the whole manuscript for types and grammar errors. Language of the paper should be improved. • Some minor grammatical mistakes are there, read carefully and correct them. • Please clearly refer and write about your words data based and sample test • In the conclusion part please write the exact improvement number by using your proposed method. <p>10. Figures:</p> <ul style="list-style-type: none"> • There is no reference to any of the figure inside the text. • Please refer to all figures inside the text, and explain what is shown in all figures. • Make the text more visible inside figure 4, make the figure bigger, and explain it what is shown inside the figure. <p>11. Tables:</p> <ul style="list-style-type: none"> • No tables used. <p>12. Equations:</p> <ul style="list-style-type: none"> • No equations/algorithms used. <p>13. References:</p> <ul style="list-style-type: none"> • Please use the most recent references for the paper, i.e, starting from 2019 till date. <p>14. Authors are requested to make typesetting strictly according to the paper template on the journal website.</p>
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>ok</p>	
<p>Optional/General comments</p>	<p>This study has merit for publication. However, I would recommend a major revision to improve the quality of the manuscript.</p>	<p>This study has merit for publication. However, I would recommend a major revision to improve the quality of the manuscript.</p>

PART 2:

	<p>Reviewer's comment</p>	<p>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>
<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>	

Reviewer Details:

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<p>Department, University & Country</p>	<p>School of Information Engineering, Jiangxi University of Science and Technology, China</p>