

Review Form 1.7

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_104178
Title of the Manuscript:	Analysis of Long-Range Wireless Area Network Enabled Smart Agriculture for Sustainable Food Production
Type of the Article	RESEARCH

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>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>1. Yes, it is. 2. Yes, it is. 3. Yes, it is. 4. See the reports. 5. Yes, it is. 6. Yes, it is. 7.</p> <p>This article discusses the potential benefits of integrating 5G and IoT technologies into smart farming. It highlights applications such as precision farming, AI-enhanced machinery, drone sprayers, accurate harvest estimates, efficient irrigation, and livestock tracking. The use of 5G in these applications enables faster communications, machine-to-machine data transfers, and lower costs for farmers.</p> <p>1. The study also explores the use of LoRaWAN technology for energy harvesting in remote agricultural monitoring and presents experimental results comparing Zigbee, LoRaWAN, and WiFi-based nodes in terms of current consumption and battery life. Please answer how does the battery life extend?</p> <p>2. Overall, this paper demonstrates the potential of 5G and IoT technologies to transform agricultural practices, increase productivity, reduce environmental impact, and empower farmers to make decisions. Please answer the requirements of the setting environment for 5G in this study?</p> <p>3. It is important to note that the information presented is part of a theoretical scenario and may not fully reflect real-world implementation challenges or practical impacts. Please discuss how implementing advanced technologies such as 5G and IoT in agriculture requires careful consideration of infrastructure, cost, scalability, and training farmers to effectively adopt and utilize these technologies.</p> <p>4. Any emerging technology will have potential drawbacks and challenges, such as initial setup costs, compatibility issues, and data privacy and security issues. To illustrate how to adequately assess the effectiveness and impact of these technologies on agricultural systems, rigorous testing and long-term monitoring in realistic agricultural settings is necessary.</p> <p>5. Finally, the paper presents a promising perspective on the potential benefits of 5G and IoT in smart agriculture, but the adoption of these technologies must be done with a thorough understanding of the agricultural context and potential challenges that may arise during implementation and how can they be overcome?</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>1. Yes, it is.</p>	
<p>Optional/General comments</p>		

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PART 2:

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

Reviewer Details:

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