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| Book Name: | **Intelligent IoT Systems: From Research to Real-World Solutions** |
| Manuscript Number: | **Ms\_BPR\_6282.7** |
| Title of the Manuscript: | **Smart Gardening System Using Microcontroller and Smart Application** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **T**his manuscript contributes to the growing field of smart agriculture by demonstrating how IoT and microcontroller-based systems can simplify gardening while conserving water and promoting plant health.  The proposed Smart Gardening System provides a low-cost, automated, and user-friendly solution that addresses common challenges such as inconsistent watering and limited time availability among users.  Its integration of real-time soil monitoring with automated irrigation and remote accessibility highlights its potential scalability for both household and small-scale agricultural applications.  Overall, the study advances research in sustainable, technology-driven solutions for resource-efficient agriculture. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | yes |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | yes |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically robust |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | yes |  |
| Is the language/English quality of the article suitable for scholarly communications? | Minor English editing is required |  |
| Optional/General comments | The manuscript presents a practical and innovative IoT-based solution for smart gardening, addressing challenges of inconsistent plant watering and resource efficiency. With some improvements in implementation, references, and formatting, it has strong potential to contribute to research in smart agriculture and sustainable technology.  The manuscript lacks details on practical implementation and resulting outputs. The research would be more valuable to the scientific community if real-time application in an actual garden were demonstrated, along with corresponding results or yield performance over a given time frame.  The figure included in the manuscript is not referenced or discussed within the main text. The authors should ensure that all figures are properly cited, described, and integrated into the narrative to enhance clarity and coherence.  The figure presented in the results section lacks a caption. A clear and descriptive caption should be provided to explain the content of the figure and enhance reader understanding.  References 12, 14, and 15 are listed in the reference section but are not cited within the text. The authors should either integrate these references appropriately into the manuscript or remove them to maintain consistency and accuracy |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No |  |

**Reviewer details:**

**Elegbeleye Ife Fortunate, University of Pretoria, South Africa**