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| Book Name: | **Intelligent IoT Systems: From Research to Real-World Solutions** |
| Manuscript Number: | **Ms\_BPR\_6282.3** |
| Title of the Manuscript: | **AUTOMATIC PET FEEDER SYSTEM** |
| 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.** | **This paper tachles a practical and significant issue in pet care. Specifically in the demand for dependable, cost effective, and automated feeding solution.**  **Creation of the voice-control, IoT-enabled smart feeder utulizing affordable part such as ESP32, HC-05, and L289N illustrates how embedded system can enhance evert application. This research adds to the expanding research on the IoT application for smart homes and shows how affordable prototype can act as substitutes fos costly commercial product within the scientific community** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The existing title “Automatic Pet Feeder System," straightforward but somewhat conventional. But perhaps more detailed and interesting:**  **"Design and Implementation of a Voice-Activated IoT-Driven Automatic Pet Feeding System"**  **May more accurately represent the originality of the project and its technological features.** |  |
| 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. | **The abstract usually present addressing the aims, methods, and potential improvements ahead. but can be enhanced:**  **Incorporating quantitative outcomes (e.g., response time, accuracy, variability in portion control) directly into the abstract to demonstrate scientific rigor. Include specifying the advantages over current systems (e.g., reduced expenses, voice-controlled interface)** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **This paper is scientifically rigorous, presenting a coherent format (introduction, background, methodology, results, conclusion) and offering in-depth technical descriptions of the hardware, software, and performance assessment. Experiments, calibrations, and testing are comprehensively detailed. However, additional comparisons with current commercial or academic solutions could be added to more effectively demonstrate the progress.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **A combined reference of previous works (2014–2017) and recent works (2021–2024) would be useful.**  **However, for [10], regarding marine controlled-source electromagnetic methods, it should be considered. It should be replaced with a more relevant and up-to-date reference on IoT-based pet care or smart home automation from the IEEE IoT Journal, Sensors.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The English is mostly clear and easy to understand. However, grammar and style need some work to improve academic coherence (e.g., repetitive phrases like "the hands-free system ensures stable feeding" and "the owner can request Feeder Open or Feeder Close"). It should be proofread.** |  |
| Optional/General comments | **Flowcharts and system architecture illustrations are helpful, but they should be supplemented with software logic block diagrams or command execution flowcharts for greater clarity.**  **Include a cost analysis table for comparison.**  **Additionally, a section on limitations (e.g., susceptibility to noise, dependence on Bluetooth range) should be included in the discussion.** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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 details)* |  |

**Reviewer details:**

**Teotino Gomes Soares, Universidade Oriental Timor Lorosa’e Dili, Timor Leste**