

Review of: "Design of a Smart Motorcycle Parking System based on Wireless Sensor Network (WSN) in a Multilevel Building at Universitas Pendidikan Indonesia"

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Potential competing interests: No potential competing interests to declare.

Comments

Authors have proposed a smart parking system. The hardware used reduced the cost of the project remarkably. But is the chosen hardware reliable for implementation? The paper is well organized, but there are a few suggestions that need to be revised.

1. Sub-section 2.1 is the schematic of the proposed design. The schematic must be explained after the explanation of the block diagram. Thus, this section must be mentioned after Sub-section 2.3.
2. In section 2.4, all the hardware aspects are explained with their basic workings. Authors are requested to revise the section and mention the functionality with respect to the proposed work. For example, in sub-section 2.4.1, it is mentioned, 'ESP32 utilizes the Wi-Fi module supporting IEEE 802.11b/g/n, with data transfer rates up to 150 Mbps. Additionally, this microcontroller incorporates Bluetooth 4.2 and Bluetooth Low Energy (BLE) protocols.' Authors are advised to clearly mention which communication standard - 802.11b, 802.11g, 802.11n, or BLE - is used in the proposed project.
3. In Fig.7, figures can be highlighted with captions like main gate entrance, main gate exit, floor 1 main gate, etc., for better readability.
4. The conclusion can be elaborated with future work with respect to the current work.
5. On what basis the timer values are set needs to be explained. For instance, why is the detection time condition chosen to be 10 sec.? Why will the main entrance gate be open only for 30 sec.?
6. The manuscript does not explain the worst conditions like congestion periods, heavy traffic, i.e., when many vehicles are lined up for parking.

Authors are advised to proofread the manuscript after corrections for better quality of the paper.