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

Giuseppe Mazzarella[1]

1 University of Cagliari

Potential competing interests: No potential competing interests to declare.

The authors present a scaled version of an access control. Some parts are quite explanatory, some others need improvement. The list follows.

It is unclear who gives motorcyclists the RFID tag/target. Please clarify.

p.3: “The system will utilize RFID” - which kind of RFID? HF (as it seems from some figures) or UHF? What are the proposed characteristics of the RFID system? Please be detailed on this part, as it seems to this reviewer that it is a critical part of the proposal.

Different RFID systems use different terminology for the different parts. E.g., tag for UHF-RFID becomes target for HF-RFID. You must be precise in this.

Fig. 5: It seems that the entry gate opens without letting which floor has available places. This is very important information.

Fig. 5 and 6: There are English errors (and some non-English words). “Are all parking …” → “Are at least one parking …” (upper right) and “… and each floor's …” → “ … and one floor's…” (lower left). Please correct (and make a truth table to check information in figures).

Sect. 2.4.4: Why use AlGaAs LEDs? Reasons for the choice and cost evaluation.

Sect. 2.4.5: Check the frequency range (probably, it is an English error).

Sect. 3.2.2: The two gates must not open at the same time, but in sequence and after a second tap. Please clarify.

References: Please use only English-language references.

Ref. 11: There are several books which can be used there, since the book you chose is unavailable outside Indonesia. Can I suggest:

Dobkin D.M. - The Rf In Rfid Passive Uhf Rfid In Practice (Newnes 2012)

Dominique Paret - Design Constraints for NFC Devices-Wiley-ISTE (2016)

for UHF-RFID and HF-RFID, respectively?