

IoT Based Visitor Sensing Smart Doormat

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Abstract: *The door mat notification function of the home security system is served by the suggested system. To create multiple functional systems like industrial automation, fire detection, and safety control, this system may be simply modified. The visitor outside the door is detected by the suggested system. By taking a visitor's picture, an email will be sent right away to the owner. The most crucial element in any security system is authentication. The primary device for authentication and email visitor notification in the proposed system is an Android phone. The suggested solution stores visitor photos both online and offline so the owner can access the visitor's past year history. The accuracy of this system is 97%, with 3% of errors. It could happen as a result of a network issue. Therefore, the total system is resilient and has a bright future for a variety of applications.*

Keywords: Cloud, email, the Internet of Things, and smart doormat

REFERENCES

- [1]. Rui Antunes, and Frederico Grilo Helder Adão, "Web-Based Control & Notification for Home, "International Journal of Computer, Electrical, Automation, Control and Information Engineering, vol.2, no.1,2008.
- [2]. J. C. Augusto and C. D. Nugent, "Smart homes can be smarter," Springer, pp.1-15,2006.
- [3]. J. J Greichen, "Value based home automation or today's market," IEEE Transactions on Consumer Electronics, vol.38,no.3,pp.34-38,Aug1992.
- [4]. F. and Floerkemeier, C Mattern, "From the Internet of Computers to the Internet of Things.," Springer, pp. 242-259,2010.
- [5]. D.-M. Han and J.-H. Lim, "Design and implementation of smart home energy management systems based on zigbee," Consumer Electronics, IEEE Transactions, vol. 56, no. 3, pp.1417-1425,2010