

Unmanned Aerial Vehicles with Blockchain Technology

Sanandan S, Mohammed Lisan M, Mohammed Faris PP, Dr. S Kavitha Murugesan

Department of Computer Science & Engineering
Vedavyasa Institute of Technology, Malappuram, Kerala, India

Abstract: *Unmanned Aerial Vehicles (UAVs) are a type of robotic vehicle that can carry cargo and carry out missions autonomously or with the assistance of remote control stations. UAVs are extremely transportable, allowing them to operate in places where there is no physical or technological infrastructure. Package delivery, video recording and filming, rescue operations, building structures, mapping, monitoring, inspections, farming, and other applications are all possible with UAVs. Unmanned Aerial Vehicles (UAVs) can have increased security and can also do many specific tasks more efficiently by adopting blockchain technology.*

Keywords: Unmanned Aerial Vehicles

REFERENCES

- [1]. M. Alwateer, S. W. Loke, and A. Zuchowicz, "Drone services: issues in drones for location-based services from human-drone interaction to information processing," *Journal of Location Based Services*, vol. 13, no. 2, pp. 94–127, 2019.
- [2]. A. Claesson, L. Svensson, P. Nordberg, M. Ringh, M. Rosenqvist, T. Djarv, J. Samuelsson, O. Hernborg, P. Dahlbom, A. Jansson et al., "Drones may be used to save lives in out of hospital cardiac arrest due to drowning," *Resuscitation*, vol. 114, pp. 152–156, 2017.
- [3]. S. W. Loke, M. Alwateer, and V. S. Abeysinghe Achchige Don, "Virtual space boxes and drone-as-reference-station localisation for drone services: An approach based on signal strengths," in *Proceedings of the 2nd Workshop on Micro Aerial Vehicle Networks, Systems, and Applications for Civilian Use*. ACM, 2016, pp. 45–48.
- [4]. M. Bacco, A. Berton, E. Ferro, C. Gennaro, A. Gotta, S. Matteoli, F. Paonessa, M. Ruggeri, G. Virone, and A. Zanella, "Smart farming: Opportunities, challenges and technology enablers," in *2018 IoT Vertical and Topical Summit on Agriculture-Tuscany (IOT Tuscany)*. IEEE, 2018, pp. 1–6.
- [5]. S. Daftry, C. Hoppe, and H. Bischof, "Building with drones: Accurate 3d facade reconstruction using mavs," in *2015 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE, 2015, pp. 3487–3494.
- [6]. A. Shukla, H. Xiaoqian, and H. Karki, "Autonomous tracking and navigation controller for an unmanned aerial vehicle based on visual data for inspection of oil and gas pipelines," in *2016 16th International Conference on Control, Automation and Systems (ICCAS)*. IEEE, 2016, pp. 194–200.