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2023

ABSTRACT BOOK 2023

(i - Ja M C S I I X)

INTERNATIONAL JASIN

MULTIMEDIA AND COMPUTER SCIENCE

INVENTION AND INNOVATION EXHIBITION

PUBLICATION DATE :8 NOV 2023



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2023

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

Virtual Award Ceremony

8th November 2023
Wednesday

Platform: YouTube

https://www.youtube.com/channel/UCW3Mw4_ngn6tn8gyXIOpLlw





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2023

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

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SafeDrop: Intelligent Secure Parcel Locker

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Abstract—In the booming age of online shopping, ensuring the secure and safe delivery of parcels to consumers, especially when they are not at home, remains a significant concern. Traditional delivery methods often lead to packages being left unsecured, making them vulnerable to theft, damage, or environmental factors. The need for a robust solution that guarantees the secure delivery and storage of packages is paramount. SafeDrop is an avant-garde Intelligent Secure Parcel Locker, designed to address these concerns by ensuring the secure and efficient receipt of parcels in the absence of homeowners. It incorporates cutting-edge technologies such as IoT, facial recognition, and real-time notifications to provide a seamless and secure experience for both the homeowner and the delivery personnel. SafeDrop's multi-layered security features, including mechanical locks, biometric authentication, and continuous surveillance, offer unparalleled security. The climate-controlled compartments ensure the safe storage of perishable items, and the modular design allows for scalability based on individual needs. Additionally, the installation of solar panels to the unit ensures sustainable and uninterrupted operation. The novelty of SafeDrop lies in its integration of advanced technology and user-friendly design, offering a comprehensive solution to parcel security issues. The smart identification system uniquely identifies and authorizes delivery personnel, ensuring that only legitimate deliveries are made. Homeowners are provided with real-time notifications and video confirmations, ensuring complete transparency and control over their parcels. SafeDrop redefines parcel delivery and reception, providing peace of mind and convenience to its users. Despite its innovative approach, the implementation of SafeDrop does face some challenges. The initial investment for development and integration with existing delivery infrastructure is substantial. Effective collaboration with logistics companies is crucial for seamless operation, and this may involve overcoming bureaucratic hurdles. The adaptation of delivery personnel to the new system also demands time and training. Despite these limitations, the long-term benefits of SafeDrop, including enhanced security and customer satisfaction, undeniably outweigh the initial challenges. In conclusion, SafeDrop stands as a revolutionary step towards ensuring the secure and efficient delivery of parcels, integrating advanced technologies to provide a comprehensive, user-friendly, and environmentally sustainable solution.

Keywords—Intelligent Secure Parcel Locker, real time notifications, multi-layered security, facial recognition, IOT



i - J a M C S I I X

2023

PUBLISHED BY:

i-JaMCSIIX

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