

Distributed Key Management With Less Transmitted Messages In Rekeying Process To Secure Iot Wireless Sensor Networks In Smart-Agro

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Abstract : Internet of Things (IoT) is a promising technology has received considerable attention in different fields such as health, industry, defence, and agro, etc. Due to the limitation capacity of computing, storage, and communication, IoT objects are more vulnerable to attacks. Many solutions have been proposed to solve security issues, such as key management using symmetric-key ciphers. This study provides a scalable group distribution key management based on ECCryptography; with less transmitted messages The method has been validated through simulations in OMNeT++.

Keywords : elliptic curves, Diffie-Hellman, discrete logarithm problem, secure key exchange, WSN security, IoT security, smart-agro

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