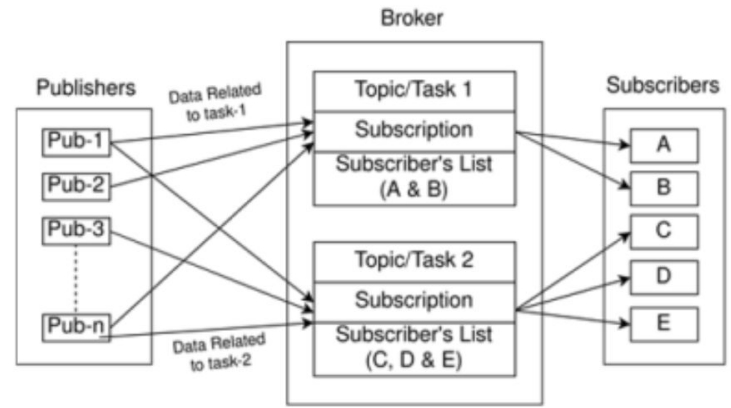




PENDING

(IN202311006415)

A privacy-preserving decentralized framework for mobile crowdsensing



NEED

Mobile crowdsensing for collecting data can compromise privacy and security. Current systems lack efficient, secure, and decentralized data handling, exposing risks. Blockchain technology offers a way to address these challenges.

MARKET ANALYSIS

The global blockchain market for telecommunications is growing at a CAGR of 22.5%, projected to reach \$31 billion by 2033. Key drivers include privacy concerns, IoT, and data security needs.

TECHNOLOGY OVERVIEW

This blockchain-based mobile crowdsensing system ensures secure, decentralized data collection, encryption, and validation. It uses blockchain for secure data exchange and privacy protection while enabling efficient crowd-sensing for location and identity-sensitive data.

Target Industries

Telecommunications, Smart Cities, IoT, Telecom providers, IoT platform integrators, and security-focused data management services. These sectors are keen to deploy decentralized, secure data collection and processing solutions.

TECHNOLOGY KEY FEATURES

Blockchain-based, secure data encoding and encryption for crowdsensed data, decentralized data storage, and validation via blockchain. Ensures privacy through data normalization and cryptographic methods.

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 16 (Peace, Justice, and Strong Institutions)

[Read more here](#)

Technology is available for licensing/ co-development.

Reach out to Prof. Deepak Chitkara, Coordinator, BITS Technology Enabling Centre,
BITS Pilani Contact Details: tec.bits@pilani.bits-pilani.ac.in, 91 1596-255913

