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(57) Abstract :
ABSTRACT: Title: A Method for Controlled Expansion of a Floating Fender to Adapt for Different Water Levels The present disclosure proposes a floating fender (100) that can be easily adaptable according to the height of water levels for avoiding collisions between a vessel (10) and a wharf (12). The cylindrical floating body (102) comprises an outer layer (104), a magnetostrictive inner layer (106) and a hollow metallic core (108). The proposed floating fender (100) is a pneumatic floating fender. The floating fender (100) can be easily adaptable according to the height of water levels for avoiding collisions between the vessel (10) and the wharf (12). In one embodiment herein, the floating fender (100) expands in a controlled manner neither creating turbulence nor changing the angle of approach. The floating fender (100) responds to the variations in the waves and avoids accidents when the vessel (10) is berthed at the wharf (12).

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(57) Abstract :
Blockchain and Cloud computing based Criminal Digital Forensic Investigation and prediction using Artificial Intelligence and Machine learning algorithms ABSTRACT: Cloud forensics, a discipline that contributes to the protection of digital systems from cybercriminal activities, has emerged in the current field of forensic inquiry. The concentration of data collection and storage raises concerns about the authenticity of digital signals. This paper proposes the development of a forensic platform that makes use of blockchain technology, algorithmic design, and complete automation. Implementing forensic architectures, collecting forensic data, and storing it on a distributed ledger, often known as a blockchain, are all required components of this project. The Secure Block Verification Mechanism is being implemented to prevent unwanted access to sensitive data, hence protecting the security and privacy of private information. In order to determine the ideal secret keys, a cuckoo search optimization approach is used. On the cloud login server, the data is securely stored and encrypted, ensuring confidentiality and preventing unauthorized access. Algebraically Confidentiality is a basic value that underpins many professional areas and practices, including medicine, law, and business. It relates to the ethical and legal obligations. In the subject of cryptosystems, the notion of homomorphism has arisen as a revolutionary approach, providing a new viewpoint on code-breaking approaches. Each data element is assigned a distinct block in the SDN controller, where their relevant information is maintained as a historical record of their previous activity. Every individual block in the system has a hash value of 512 bits, which is produced using the Secure Hash Algorithm version 3 tree implementation. To monitor the information of users, we propose using graph neural networks, which are based on graph theory, within smart contracts. The use of a blockchain-based evidence graph makes it easier to examine the underlying facts. The trials were carried out with the Python programming language and the network simulator version 3.30, which was created specifically for software-defined networks. Our innovative forensic framework, which incorporates blockchain technology, has shown improvements in a variety of areas, including evidence response time, cloud evidence insertion time, cloud evidence verification time, computational overhead, hash calculation time, key generation times, and overall evidence change rate.

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