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(57) Abstract :

As medical systems using wireless communication technology have progressed, there has been enormous development on the Internet of Medical Things (IoMT). By integrating biosensors with real-world items and using online collaboration, it is feasible to develop better healthcare applications. It has been decades since patients' physical health has been tracked, and several applications have been created to help medical teams give proper treatment. It is necessary to attach medical devices to patients' bodies, which are then connected to a cloud computing system to collect and process healthcare data. On the other hand, these medical devices depend on battery-powered sensors and have limited memory, transmission, and processing resources to work with. As a result, they are not optimal. Many cloud-based healthcare systems are assisting the community in keeping track of patients' conditions more effectively; however, they all suffer from latency concerns regarding data collection and storage. To provide distributed and timely computing of a decision-oriented medical system employing Secured Big Data analytics and Edge–Cloud architecture, SBD-EC was developed (SBD-EC). The mobile edges also collaborate with the cloud to deliver a secure algorithm that ensures reliable availability of medical data while maintaining the privacy and safeguarding against hazardous actions.

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