

عنوان مقاله:

A Conceptual Architecture for Disaster Management Using IoT Cloud

محل انتشار:

پنجمین کنفرانس بین المللی مهندسی برق، الکترونیک و شبکه های هوشمند (سال: 1400)

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نویسندگان:

Armin Sheibanifard - *School of Computer and Information Technology, Shahrood University of Technology Shahrood, Iran*

Ali A. Pouyan - *School of Computer and Information Technology, Shahrood University of Technology Shahrood, Iran*

خلاصه مقاله:

The Internet of Things (IoT) has been rapidly influencing the major aspects of human life. In the broadest sense, the term IoT encompasses devices connected to the internet. It is increasingly being used to define objects that communicate to each other. IoT is made up of devices from simple sensors to smartphones and wearables that are connected. In reality, combining these interconnected smart devices with automated systems make it possible to gather information, analyze it and create a course of action to help someone with a particular task, or learn from a process. In this paper, we presented a robust architecture for disaster management systems using smart surveillance robots. In the proposed architecture, communication latency, energy consumption, security and reliability have been addressed to cope with big data transfer in the platform. It has been shown that using an integration of cloud, edge and fog computing in architecture makes a robust platform to manage natural disaster situations more efficiently than the existing methods in the literature.

کلمات کلیدی:

IoT, cloud computing, edge computing, fog computing, disaster management

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