Abstract

An Early Warning System (EWS) is a center kind of information driven Internet of Things (IoTs) framework utilized for environment debacle hazard and impact administration. The potential advantages of utilizing a semantic-sort EWS in corporate less demanding sensor and information source plug-and-play, less complex, wealthier, and more dynamic meta data-driven information examination and less demanding administration interoperability and arrangement. The difficulties confronted a mid hand arrangements of semantic EWSs are the requirement for adaptable time-delicate in formation trade and processing (particularly including heterogeneous information sources) and the requirement for versatility to changing ICT asset requirements in
emergency zones. We show a novel IoT EWS framework structure that addresses these difficulties, based upon a multi semantic representation demonstrate. We utilize light weight semantics for metadata to upgrade rich sensor information procurement. We utilize heavy weight semantics for top level W3C Web Ontology Language philosophy models portraying multi leveled learning bases and semantically determined choice support and work process arrangement. This approach is approved through deciding both frame works related measurements and a contextual investigation including a propelled model arrangement of the semantic EWS, coordinated with a existing EWS.

References

- M. Lendholt and M. Hammitzsch, &apos;&apos;Generic information logistics for early warning systems,&apos;&apos;&apos; in Proc. 8th Int. Conf. Inf. Syst. Crisis Response Manage., 2011.

Index Terms

Computer Science
Information Science
Keywords
IoT  EWS  Data Acquisition  Disaster Management