Developing a Framework for E-Healthcare Applications using the Semantic Internet of Things

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Abstract

In this paper, discuss the semantic concept, where it found to enrich the logically and conveniently of information accessed capability through web services doing by human or automated using tools. The semantic potentials were based on schemes and formats of data integrated and shared among web, these formats and schemes called ontologies. This technology provides interoperability between medical IoT devices in the healthcare system. The aim of this paper is the effort to developing a framework for e-healthcare applications using the semantic Internet of Things. Extend these ontology descriptions toward the specificity of the healthcare domain. It is to design and implement a framework that holds healthcare data to be then easily used by e-healthcare applications by mapping data into the ontology entities and properties. The objectives of the e-health ontology are to increase access to health care for patients in remote areas, to improve quality of care for patients.

References
improve patient care with telemedicine and telehealth”. Health Affairs., 2014

Index Terms

Computer Science Information Systems

Keywords

Semantic Web, Ontology, Ontology Languages, XML, RDF, OWL