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Understanding E-health Application Utilizing Internet of Things (IoT) Technologies

Publisher: IEEE

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Abstract:

E-Health applications make room for exchange of information between medical professionals and patients, hospitals to hospitals, lower cost, increased scope and extent of medical facilities, as well as improving the quality of services. Despite all these advantages, healthcare system is still being challenged with the factors such as increased number of ageing population, need for reduced cost of health services, the shifting of healthcare services from provider-centric to patient-centric, the type of new diseases available and their treatments. All these require Internet of Things (IoT) for its transformation. This work seek to explore Internet of Things in e-Health domain and determine how its operations can transform healthcare application system. We examined technological and application trends in healthcare, Convergent e-Health-IoT Works, attacks and issues in e-Health utilizing Internet of Things technologies, applications of Internet of Things (IoT) in e-Health, as well as challenges and open problems in the e-Health domain.

Published in: [2019 IEEE International Conference on Bioinformatics and Biomedicine \(BIBM\)](#)

Date of Conference: 18-21 November 2019

Date Added to IEEE Xplore: 06 February 2020

ISBN Information:

DOI: [10.1109/BIBM47256.2019.8982946](#)

Publisher: IEEE

Conference Location: San Diego, CA, USA

I. Introduction

World Health Organization gives the definition of e-Health as the movement of health information related to medicine and healthcare electronically. It is made up of three core areas such as the use of Internet and telecommunication to make health information available for health specialists and patients, making health services better through the use of information and communication technology and electronic buying of goods and services and applying electronic buying of goods and services, as well as e-business approaches to health systems control and management [1].

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