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ANALYSIS ON INTERNET OF THINGS, APPLICATION, CHALLENGES AND RELATED FUTURE TECHNOLOGIES (A LITERATURE REVIEW)

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We are living in an information era where technology has improved to its maximum level. In spite of many technological sectors, Internet of Things (IoT) has earned a massive attention from people as well as researchers, since it has turned an important technology that ensures a smart human life in the planet by permitting a great communication opportunity between every object together with human. IoT is a huge area which includes objects in the real world, and sensors in electric and digital devices attached and connected to the Internet via wired or wireless network architecture (Zeinab, K.A.M. and Elmustafa, S.A.A., 2017. Internet of Things Applications, Challenges and Related Future Technologies. World Scientific News, 2(67), pp.126-148.). Recently, the range of Internet of Things (IoT) technology is being utilized in the real world with the aid of the dramatic growth of sensor devices. The sensors which are used by IoT can use different types of connections like RFID, Wi-Fi, Bluetooth etc., Moreover in order to allow internet connectivity it uses multiple networking technologies such as GSM, GPRS, 3G, and LTE. (Madakam, S., Ramaswamy, R. and Tripathi, S., 2015. Internet of Things (IoT): A literature review. Journal of Computer and Communications, 3(05), p.164.) Information obtained from various sensing devices such as pressure, humidity, temperature has become the gateway to provide solution to most complex problems which have been harder to solve by any other technological aspects like big data and data science. With the aid of IoT the globe will become very smart in many ways starting from smart buildings to smart cities, smart eco system, smart health care, smart waste management, Smart Production, smart disaster management, smart weather prediction etc. This paper briefly reviews the concept of IoT, its applications, future prediction and the challenges related to IoT.

Keywords: *IoT Applications, Future Technologies, Smart Cities, Smart Environment, Smart Energy and Grid, Smart Manufacturing, Smart Healthcare*