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Building Trust in Healthcare IoT

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Building Trust in Healthcare IoT

Research in Progress

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ABSTRACT

Advances in Internet of Things (IoT) have given users the ability to monitor heart rate, calories burned, steps walked, blood pressure, time spent exercising, and electrocardiogram (ECG/EKG). Although major players in the wearable industry have marketed their wearables using the health and activity tracking features, they haven’t yet become the primary purpose of these devices. A prominent barrier to adoption of healthcare features in these devices is lack of user trust. This research studies the formation of user’s initial trust in wearables. We argue that users project their perceptions about trustworthiness of the device and trustworthiness of device manufacturer on the wearable system. Understanding the formation of initial trust on wearable devices’ healthcare features can lead to improvement in user’s information acceptance from healthcare IoT, which in turn has the potential to cause a societal change in primary healthcare delivery.

Keywords
Healthcare, IoT, Trust, Technology use, smart watch.