Ali Al Sherbaz, Int J Sens Netw Data Commun 2018, Volume 7
DOI: 10.4172/2090-4886-C1-011

Ali Al Sherbaz

Northampton University, UK

Blockchain technology as a trustworthy solution for IoT

The development of machine-to-machine communications systems has been increasing recently, especially considering that they have a wide range of applications in smart cities and the Internet of things (IoT). However, with the massive number of connected devices in such applications, the problem of message collision becomes a vital factor that significantly affects the reliability and performance of the M2M systems. The emergence of smart phones, cloud computing, and networking on the Internet has created a type of consumer increasingly accustomed to doing everything using smartphones to check bank balances, purchases, watching movies on mobile devices, etc. From here these consumers wonder why health systems cannot provide appropriate applications for similar service using the blockchain technology. Which led to the emergence of information technology companies working in the different fields that attract investment capital with the flexibility to design applications that meet the needs directly to groups of users at the same time emerged obstacles for IT companies, notably lack of access to data with no agreement on how to distribute the resulting economic benefits for smartphone applications and at the same time IT officials in search of the potential of blockchain technology in IoT for example to answer the following basic questions: Who should pay for applications and electronic services? What is the evidence of the effectiveness of the services provided by the application and which are the reason for paying the wages; what conditions should be available to be the starting point for developing applications with a business model? We believe that the blockchain solution is to strengthen cooperation between health providers and technical companies by enabling the exchange of health data to enable more efficient and adaptive health care delivery. The national health system must take into account that the framework in the area of health care data must be updated from the demand for standardized standards of patient health record to providing data access through application interfaces using blockchain. The framework of the health electronic services system will be operated by accredited third parties and can be directed by the health system as well.

Biography

Ali Al Sherbaz is currently the Faculty Research Leader and Associate Professor in the Faculty of Arts, Science and Technology at the University of Northampton, UK and a skilled Senior Research Engineer with a PhD in Mobile/Wireless Communications and Network Security from University of Buckingham, UK and has an MSc in Electronic and Communication Engineering, Baghdad, Iraq. He has twenty five years theoretical and practical experience in researching and teaching at various universities both in the Middle East and in the UK, with good experience in both academic and industrial projects. He published more than 60 papers; including patents, books, book chapters, journal and conference papers and act as a keynote speaker in several international conferences. He is involved in delivering the future focused strategy for the University of Northampton in cybersecurity, blockchain and Internet of things.

ali.al-sherbaz@northampton.ac.uk