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Digital technology: A review of IoT healthcare analytics for innovative healthcare solution

The world population is increasing and continues to grow in the 21st century. It will be expected to reach 10 billion people in the year 2050 and 11 billion in the year 2088. Regardless of this number, the quality of life is one of the issues that need to be addressed and handle in an efficient way while facing the growing population phenomenon. One of the domains that are very related to the quality of life is health care service. It must be noted that the growing population will somehow create new and lasting challenges for healthcare worldwide. In order to face these challenges, the emerging digital technology such as machine learning, cloud computing, Artificial Intelligence and Internet of Things (IoT) should be utilized in which massive expansion of data is available through this technology. These data are then transformed into actionable insight through Analytics, the scientific process that uses mathematics, statistics, predictive modeling and machine learning techniques. This paper provides a brief review and discussion on IoT Healthcare Analytics for innovations of healthcare and nursing in the challenges of a growing population. A comparison of IoT for various healthcare applications such as remote health monitoring, fitness programs, chronic diseases and elderly care as well as the analytics techniques for the huge volume of health information is presented in the study. The challenges of the implementation are also discussed. The impact of this study is to improve the healthcare system using the new dimension of affordable, practical and easy-to-use technology for innovative healthcare solution.

Biography

Zuraida Abal Abas is currently a senior lecturer at the Department of Intelligent Computing & Analytics, Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka. She obtained her PhD in Mathematics at Universiti Teknologi Malaysia; her MSc in Operational Research at London School of Economics, United Kingdom; and her BSc in Industrial Mathematics at Universiti Teknologi Malaysia. Her research interests are operational research, analytics, modeling and simulation.

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