عنوان مقاله:

Internet of Things, Medicine, and Sustainability:Examination and Analysis

محل انتشار:

دومین کنفرانس بین المللی پیشرفت های اخیر در مهندسی، نوآوری و تکنولوژی (سال: 1402)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

The purpose of the current research is to examine the role the Internet of Things (IoT) can offer in sustainable construction. The current research is a descriptive-analytical that employs library archives to collect information. As such, databases and references such as the Research Institute of Information Science and Technology of Iran, SID, and MagIran, among others, were queried for the research subject. Considering that in the aforementioned research methodology, the authors spend most of their research timeframe reviewing and analyzing papers and other archival materials, the first logical step would be to get familiar with the know-how of going through written materials, which inherently involves learning how to use querying services, and finding out the optimal keywords from sources like books, articles, and journals, among others. The perceived optimality of the hybrid approach compared to the other solution can be simply attributed to its data cryptography core, which is based on the block-cipher blowfish algorithm, frequently proven to have a shorter execution time compared to other common algorithms. Also, the MD5 hashing algorithm and the corresponding digital signature not only entail security but also increase the efficiency of IoT-based services immensely. In future works, GPU-based processing and Pipeline parallelism can be used to further optimize the performance of IoT-based encryption approaches, for which the Nvidia CUDA (or Compute Unified Device Architecture) can be employed.

کلمات کلیدی:

Internet of Things, monitoring, sustainability indicators, construction sites

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