

عنوان مقاله:

Breast Cancer Detection using machine learning and IoT: A Review

محل انتشار:

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خلاصه مقاله:

Breast cancer is the most common cancer between women not men which caused by abnormal and rapid growth of breast cells. It is crucial to detect cancerous cells at the early stage to reduce the rate of cancer induced mortality. Early detection and diagnosis can save the lives of breast cancer patients. Among of various diagnosis platforms, imaging techniques are main diagnosis approaches which could provide valuable data on patients with breast cancer. There are several imaging methods which can detect breast tumors at early stages such as mammography, thermography, CT, ultrasonography, Histopathological and etc. Machine learning (ML) has become a major part of medical imaging research. The advancements in the field of ML have led to more intelligent and self-reliant computer-aided diagnosis (CAD) systems. Internet of medical things (IoMT) is an innovative mean of amalgamating systems and applications to connect with the healthcare services and patient tracking and monitoring sources. It can completely change the working layout of the healthcare facilities while detecting and predicting cancers with a superior level of care and satisfaction. This paper aims to review the impact of IoT systems for detecting early-stage breast cancer using imaging and machine learning approaches.

کلمات کلیدی:

IoT, IoMT, Breast Cancer, Machine Learning, Image Processing, Cancer Detection

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