

ABSTRACT

Breast cancer forms in breast cells and is considered as a very common type of cancer in women. Breast cancer is also a very life-threatening disease of women after lung cancer. Breast cancer can be effectively treated through its early detection. Thus, the availability of proper screening methods is important for detecting the initial symptom of breast cancer. The popular approaches are mammography, ultrasound, and thermography. Nowadays, artificial intelligence (AI), machine learning (ML), and convolutional neural network (CNN) are the quickest rising areas of healthcare industry. The opportunity that CNN brings to research on medical imaging is not restricted to deep CNN for extraction of the imaging feature. The two main objectives of this current research are, firstly, to present an automated tool for detecting IDC to lessen human mistakes in the process of diagnosis and, secondly, to examine the consequence of different types of CNN architecture in the proposed system.