

Abstract

Cancer is a disease caused by the uncontrolled growth of cells in the body and spreading to other parts of the body. When cancer starts to grow and spread from the lungs, it is called lung cancer. In recent years, the use of deep learning techniques like CNN has become increasingly common for detecting lung cancer using histopathology images as well as CT Scans. However, the use of CNN algorithms still has many limitations. Therefore, the use of ensemble learning techniques is expected to provide a solution to overcome the shortcomings of previous techniques. Ensemble learning is a machine learning technique that combines the results of multiple different machine learning models to make better decisions. In this study, ensemble learning is used together with the MobileNet base model to detect lung cancer more accurately. As a result, the risk of death will be reduced, and the life expectancy of lung cancer patients can be extended.

Kata Kunci: lung cancer, ensemble learning, histopathological