

Abstract

Artificial Intelligence Diagnosis in Multi-modality Medical Images

人工智慧診斷於多模態醫學影像

C.-M. Lo 羅崇銘

Taipei Medical University, 臺北醫學大學

Artificial intelligence has become a popular technique nowadays including the applications of intelligent robots, and machine vision. Especially for pattern recognition, the automatic classifications of human face, fingerprint, and iris are already implemented in consumer electronics. Based on the success of pattern recognition and artificial intelligence, computer-aided diagnosis (CAD) is thus developed to provide diagnostic suggestions on clinical examination. After quantitative feature extraction from medical images such as ultrasound, magnetic resonance imaging, CAD can be a second reader in improving reader performance for malignancy evaluation. Additionally, CAD would be promising in tumor detection from screening populations to reduce the workload of radiologists.