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# Deep Radiomics: A Picture's Worth a Thousand Words - A Review

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## Abstract

In recent decades, the prevalence of diseases has witnessed a notable surge. The increasing health challenges have led to a greater use of advanced diagnostic machines for detecting and understanding these disease conditions. The diagnostic modalities, such as X-rays, CT scans, MRI scans, and nuclear medicine imaging, generate a wealth of interpretative data through medical images. Deep Radiomics aims to improve the efficiency and accuracy of image interpretation by automating the process of feature extraction, allowing for more comprehensive insights for advancing personalized medicine and improving outcomes in medical imaging. Enhance disease detection, diagnosis, and subsequent treatment strategies. © 2024 IEEE.

## Author keywords

Artificial Intelligence (AI); Computer Aided Detection (CADE) and Computer Aided Diagnosis (CADx); Deep Learning (DL); Machine Learning (ML); Radiomics

## Indexed keywords

### Engineering controlled terms

Computer aided instruction; Computerized tomography; Deep learning; Image enhancement; Magnetic resonance imaging; Medical imaging; Nuclear medicine

### Engineering uncontrolled terms

Advanced diagnostics; Artificial intelligence; Computer aided detection; Computer aided detection and computer aided diagnose (CADx); Condition; Deep learning; Diagnostic modality; Machine learning; Machine-learning; Radiomic

### Engineering main heading

Computer aided diagnosis

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### Abstract

Author keywords

Indexed keywords

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