

عنوان مقاله:

A Study on Self-Attention-Based ResNet and EfficientNet in Brain Tumor Detection

محل انتشار:

نهمین کنگره بین المللی مهندسی برق، کامپیوتر و مکانیک (سال: 1402)

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خلاصه مقاله:

This paper explores Self-Attention-Based ResNet and EfficientNet models for brain tumor detection using MRI images. Through ۴-fold cross-validation, models are trained and evaluated on both original and augmented datasets. The augmentation process includes random affine transformations, color jitter adjustments, horizontal and vertical flips, and random perspective transformations. EfficientNet demonstrates improved accuracy on augmented data, while ResNet remains competitive. The study elucidates the mechanisms of these models, providing insights into their effectiveness in medical imaging. The findings underscore the potential of these models for brain tumor detection

کلمات کلیدی:

.Brain tumor detection, Self-Attention-Based ResNet, EfficientNet, Medical imaging

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