

Attention Transfer

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Transfer teacher model's attention maps to student to learn important regions

Application in Medical Imaging

Lesion Location Learning

Student learns lesion regions that teacher focuses on

X-ray/CT Analysis

Transfer attention to abnormal areas like pneumonia, tumors

Improved Interpretability

Provide clinically understandable diagnostic rationale

Attention Transfer Loss

$$L_{AT} = ||A_T - A_s||_2$$

A: Attention maps (spatial activation)