Early Diagnosis of Lyme Disease by Recognizing Erythema Migrans Skin Lesion from Images Utilizing Deep Learning Techniques

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Lyme disease is one of the most common infectious vector-borne diseases in the world. We extensively studied the effectiveness of convolutional neural networks for identifying Lyme disease from images. Our research plan includes multimodal learning incorporating expert opinion elicitation, automation of skin hair mask generation and improving neural architecture search.