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(57) Abstract :

A system (100) and a method (200) for detecting vertebral fractures is provided. The system (100) includes deep learning techniques including a convolutional neural network (CNN) model to detect vertebral fractures and image segmentation techniques to accurately locate a position of the detected vertebral fractures. The system (100) leads to more accurate and reliable fracture detection, reducing the risk of misdiagnosis and unnecessary treatments. The system (100) analyses CT scans much faster than a human radiologist, which can lead to faster diagnosis and treatment. The system (100) reduces the need for additional tests and treatments, ultimately lowering healthcare costs. The system (100) has a potential to revolutionize the way the vertebral fractures are diagnosed and treated, leading to better health outcomes for patients.

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