

Building a program to detect ground-glass opacities and hazy opacities on X-ray images to support Covid-19 diagnosis.

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Abstract: In the context of the global SARS-CoV-2 pandemic, early detection of ground-glass opacities and consolidations on X-ray images is a crucial first step in diagnosing and treating Covid-19 patients. This project focuses on building an automated system to assist doctors in analyzing and identifying disease signs through clinical images. Using a combination of theoretical research and experimental methods, the study will apply signal processing and machine learning techniques to develop an effective recognition model. The expected outcome is improved accuracy in early diagnosis, thereby contributing to epidemic control efforts.

Keywords: Diagnosis of Covid-19, X-ray, Machine learning model, Signal processing