AI for Human Benefit, Everywhere

JLD-01K

AI based Lung Nodule Detection Solution

MEDIHUB CHESTCT

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Summary

A lung nodule is a condition in which nodules develop within the lungs and usually appear as an early symptom of lung cancer. Lung cancer is one of the leading causes of cancer death worldwide and it is highly contagious. It is important to diagnose and treat lung nodules early.

JLD-01K is an AI medical system that analyzes lung nodules using chest 3D CT images. Based on a 3D neural network, the solution separates the inner and outer regions of the lung in the CT image & assists in diagnosis by providing quantitative analysis of the location, diameter, and volume of each nodule inside the lung.

Key Components & Performance

- Open Dataset AUC 90.00%
- Analysis Time : within 10 seconds
- Convenient patient data management through PACS interworking
- Display analysis result within the web-based user interface
- Provide customized patient report

Input / Output

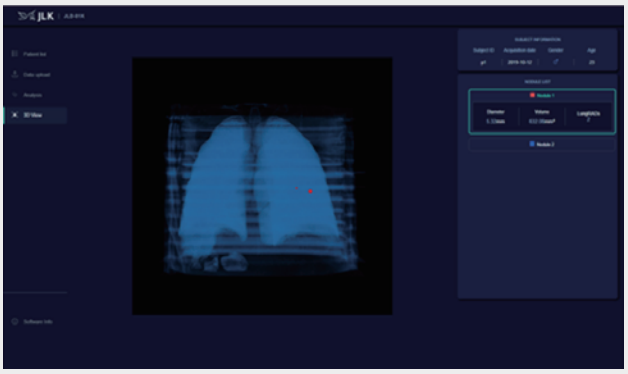
- **Input Data** Patient Lung CT DICOM
- **Output Information** Lung nodule location information, probability

Solution UI

1 Analyzed Lung nodule patients list UI

2 Lung nodule detection Result UI (2D View)

3 Lung nodule detection Result UI by each axis (2D View)



4 Lung nodule detection Result UI (3D View)

Unique Functionality

- 3D reconstruction of Lung CT images
- Provides personalized follow-up analysis and results reports
- Easy examination subject information management system
- Convenient and intuitive nodule location through 2D/3D view
- Provides information on location, volume, and diameter of lung nodules

AI R&D Center

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