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IIT team designs novel system to detect lung diseases

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The system uses non-invasive and comparatively affordable methods of image analysis.



A team of scientists at the Indian Institute of Technology, Kharagpur (IIT K) has developed a decision support system to diagnose malignant lung tissues and other interstitial lung diseases (ILD).

The system uses non-invasive and comparatively affordable methods of image analysis that would aid the radiologists to identify malignancy by reading growth in the lung nodules.

The malignancy detecting tool detects the lung nodule, segments the nodule, and provides a way to modify segmentation, retrieve similar nodules from the database with their report and assess the chance of malignancy of the query nodule based on the retrieval results.

The team is working towards further improvements in the system in order to conduct clinical trials on bigger sample sizes.