

UNIVERSITY OF CALIFORNIA

Department of Radiology

Change in Radiological Features For Determining Nodule Malignancy in Lung CT

Scoring in Lung Images

by

Benjamin G. Gold

For his M.S. degree in Computer Science & Engineering

Lung nodules are routinely diagnosed from CT images. The presence of a nodule in the suspect volume is determined by a radiologist or other medical professional. Machine learning may also provide diagnostic information. In this work, we propose a combined feature in a deep learning architecture. The proposed architecture achieved an accuracy of 83.71% on a subset of features chosen by a combination of manual features and machine learning. The highest accuracy of model with handling of uncertainty is 81.00% on a subset of features consisting solely of the

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THE FACULTY IS INVITED

For presenting contributions

Lawrence Hahn, Ph.D. Professor

Dmitry Goldgof, Ph.D.

Sudeep Sarkar, Ph.D.

Robert E. Bishop, Ph.D.

Dwayne Smith, Ph.D.

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