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Classification of Lung Cancer Subtypes Based on Autofluorescence Bronchoscopic Pattern Recognition: A Preliminary Study

Po-Hao Feng , Tzu-Tao Chen , Yin-Tzu Lin , Shang-Yu Chiang , Chung-Ming Lo

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Highlight:

- Numerous quantitative image features were developed from fluorescence bronchoscopy images to characterize different lung cancer types.
- Image texture features were extracted from HSV color channels for malignancy evaluation.
- The likelihoods of malignancy of tumors were predicted by a logistic regression model using image features in a computer-aided diagnosis system which can distinguish malignant types to achieve objective and consistent diagnoses.

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