
Lung cancer diagnosis based on physical and statistical characteristics of cancerous nodules

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Abstract: In this thesis, we are seeking a method for the automatic diagnosis of lung cancer. In this regard, first, by using thresholding and masking techniques, remove the extra parts of the muscles around the lung using the watering section and apply the thresholds Local In each section created in the watershed method, we extract the lumbar mass sections called nodules. Then, statistical characteristics such as area and environment, and exit the center and ... the extracted nodules and they are used to categorize patients with cancer of the lung into five different sections to categorize the neural network of post-ejection error Used with a hidden layer. The results show the proper performance of the proposed method. **Keywords:** thresholding method, watershed partitioning, nodules, statistical characteristics, neural network.

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