

## Documents

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**Automatic detection of abnormalities in lung radiographs caused by planocellular lung cancer**

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**Abstract**

We propose in this paper automatic algorithm for early planocellular lung cancer detection in lung X ray images. Considering the fact that lung cancer is one of the most lethal cancers and that it is usually diagnosed too late, the solution is to attempt early diagnosis at general practitioners level, using cheapest diagnostic tools, chest radiography. The proposed algorithm determines and segments the suspected area in lung X ray images. It consists of two steps: comparison between extracted planocellular lung cancer structure and the analyzed lung X ray image by calculating similarity coefficients and finding the maximum similarity coefficient which will indicate the suspected cancer affected area in the lung image. The obtained results are promising and confirm that the proposed algorithm should serve as the foundation for future research in this area. © 2011 IEEE.

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