Abstract

Identifying Renal Calculi is a major challenge in medical field. Many researchers have worked on different methods to identify the renal calculi from scanned images like Ultra sound, CT, MRI etc. The objective of this paper is to analyze different approaches suggested to detect renal calculi using various techniques. Existing literatures that have discussed the various approaches of detecting renal calculi from scanned images, categorizing them according to the methodology were reviewed. Algorithms for identifying renal calculi from Shadow, Seeded Growing Methods, Watershed Methods, Spatial gray level dependence Method and a Combinational Approach (CANR) with their advantages and limitations is discussed. CANR is compared with other methods and its performance is analyzed.
A Study on Identifying Renal Calculi using different Techniques

References

- http://www.healthcentral.com/ency/408/guides/000081_1.html
- Hafizah, W. M. ; Supriyanto, E.; Yunus, J., 2012, Feature Extraction of Kidney ultrasound images based on intensity histogram and Gray Level Co-occurrence Matrix;'
A Study on Identifying Renal Calculi using different Techniques


Index Terms

Computer Science 
Information Sciences

Keywords

Intensity Threshold  Seeded Region Growing  Preprocessing  Classification

Co-occurrence Matrices

Watershed Method

Noise Removing

Smoothing