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Automated quantification of renal interstitial fibrosis for computer-aided diagnosis: A comprehensive tissue structure segmentation method

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## Highlights

- Renal interstitial fibrosis quantification based on detection of all tissue structures.
- Combination of colour spaces, structural features and multiscale texture information.
- A 40-image ground truth set with interstitial fibrosis regions annotated is prepared.
- Average error within 9% compared to the average pathologist's visual quantification.
- Inter-pathologist correlation increased under the aid of automated quantification results.

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