

The Application and Analysis of Medical Images

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Abstract

The medical images not only provide diagnostic information, but also generate a lot of valuable features for quantitative analysis. The anatomical images include sonography, computed tomography (CT), X-ray planner images, and magnetic resonance image (MRI). The metabolic images include single photon emission tomography (SPECT), positron emission tomography (PET), and radiography. The researchers try to find meaningful, significant, and important features of medical images in order to model, build, or create early predicted models including classification and forecasting.

In this presentation, the image processing, analysis of image features, analysis of quantification, and integrated analysis by personal features and diagnostic images are shown via reviewing several successful published articles. Meanwhile, it is important that one can use and apply statistical methods for analysis of medical images from now on.