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Medical image recognition, segmentation and parsing ...

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Medical image recognition, segmentation, and parsing are essential topics of medical image analysis. Medical image recognition is about recognizing which objects are inside a medical image. In principle, it is not necessary to detect or localize the objects for object recognition; but in practice, often it is beneficial to associate object recognition with object detection or localization.

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Image segmentation is typically used to locate objects and boundaries (lines, curves, etc.) in images. More precisely, image

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The papers explore the use of modern image recognition technology in tasks such as semantic anatomy parsing, automatic segmentation and quantification, anomaly detection and categorization, data harvesting, semantic navigation and visualization, data organization and clustering, and general-purpose automatic understanding of medical images.

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Segmentation is the process of partitioning an image into different meaningful segments. In medical imaging, these segments often correspond to different tissue classes, organs, pathologies, or other biologically relevant structures. Medical image segmentation is made difficult by low contrast, noise, and other imaging ambiguities.

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