

Image Segmentation

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Image Segmentation

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Introduction

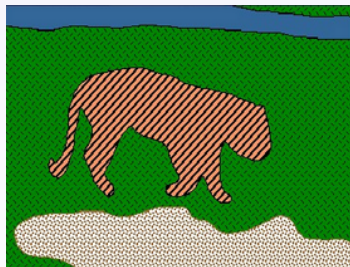
Image segmentation:

- The process of partitioning a digital image into **multiple segments**.

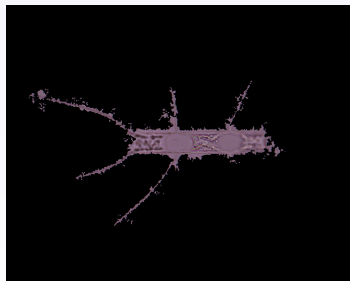
The goal of segmentation:

- **Simplify** and **change** the representation of an image into something that is more meaningful and easier to analyze

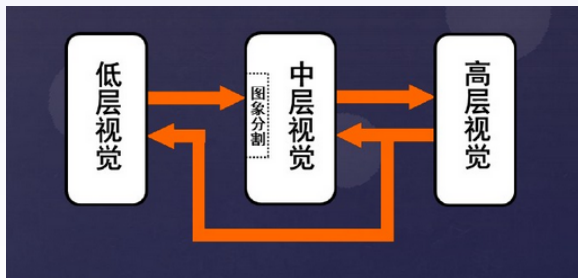
Introduction



Introduction



Introduction



Methods

Segmentation algorithms are generally based on two basic properties of gray-scale values

- Discontinuity
- Similarity

A universal algorithm of segmentation does not exist, as each type of image corresponds to a specific approach.

Methods

- Thresholding
- Edge-based Segmentation
- Region-based Segmentation
- State-of-the-art Methods