Find regions directly instead of via edges or by thresholding.

Regim Growing

0

Group pixels or subregions into larger regions based on predefined criteria for growth.

start with set of "seed" points and from there grow regions by appending to each seed those neighboring pixels that have predefined properties similar to the seed.

hitalizing seeds:

-Use a priori information

- If pixel values "cluster" then used pixels closest to centroids of clusters.

Algorima:

Let flew) be input inage:

Slewy) be seed arrang containing Is at location of seed pts. and Or elevation.

Q predicate for similarity (ex. flexy) > 7)

- satisfies predicate, and o otherwise.
 - 2) Let g be an image formed by appending to each seed point in S all the 1-valued points in fa that are 8-connected to that seed pt.
 - i) tasel each connected component in g with a different region label (e.g. 1,2,3,.). This is the segmented image.

Fig. 10,51

Predicate f(x15) < 68 Lins's work.