Abstract

Deformable models provide a promising and vigorously researched model-based approach to computer-assisted medical image analysis. The widely recognized potency of deformable models stems from their ability to segment, match, and track images of anatomic structures by exploiting (bottom-up) constraints derived from the image data together with (top-down) a priori knowledge about the location, size, and shape of these structures. In this paper, a survey of deformable models and their latest extensions are presented.
A Survey on Deformable Model and its Applications to Medical Imaging

Reference

- S. Osher and J. A. Sethian, “Fronts propagating with curvature-dependent speed:
- Chenyang Xu, D. L. Pham, J. L. Prince, “Image Segmentation using Deformable Models”.

Index Terms

Computer Science          Pattern Recognition

Key words

Deformable models
medical image
segmentation
active contours
level sets
GVF