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.
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