



Aly Farag (Ed.)

Deformable Models

Theory and Biomaterial Applications

Series: Topics in Biomedical Engineering. International Book Series

- Covers the complete spectrum of deformable models - its evolution as an imagery field and its use in many biomedical engineering and clinical application disciplines
- Includes level sets, PDEs, curve and surface evolution and their applications in biomedical fields covering both static and motion imagery
- Contributors are all pioneers in the field of biomedical mathematics, level sets, computer vision, image processing, deformable models and, partial differential equations

In the biomedical field, biomedical imagery has come to be a discipline of its own, given the nature of its applications in the understanding of the human body and medical diagnostics. The understanding of Deformable Models are the significant utility on biomedical imagery primarily because of its ability to perform efficient topology preservation and fast shape recovery. This has dominated the binary, grayscale and color imaging frameworks, which the eye can perceive. It has not only the ability to find boundaries and surfaces that are deep-seated in 2-D and 3-D volumes respectively, but also provide satisfactory solutions for the completion of cognitive objects with missing boundaries. Deformable Models: Theory and Biomaterial Applications focuses on the core image processing techniques: theory and biomaterials useful to research and industry.

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