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James Duncan

Ebenezer K. Hunt Professor of Biomedical Engineering, Electrical Engineering & Diagnostic Radiology



Ph.D., University of Southern California

RESPONSIBILITIES

Director of Undergraduate Studies; Vice Chair of Bioimaging Sciences

INTERESTS

Biomedical image processing and analysis; quantitative strategies for image analysis based on geometrical and physical models and statistical decision making. Applications in analysis of left ventricular (LV) cardiac function, neuro-structure/function, image-guided intervention.

AWARDS & HONORS

- IEEE Fellow (2001)
- Inducted into American Institute for Medical and Biological Engineering (2000)

REPRESENTATIVE PUBLICATIONS

- 3D Image Segmentation of Deformable Objects with Shape-Appearance Joint Prior Models, J. Yang, James S Duncan, 2003, *MICCAI (Medical Image Computing and Computer-Assisted Intervention)*, 1, 573-580.
- Neighbor-Constrained Segmentation with 3D Deformable Models, J. Yang, Lawrence H Staib, James S Duncan, 2003, *IPMI (Info. Processing in Med. Imaging)*, 198-209.
- Estimating Tissue Deformation Between Functional Images Induced By Intracranial Electrode Implantation Using Anatomical MRI, C. Studholme, I.G. Zubal, E. Novotny, James S Duncan, 2001, *Neuroimage*, 13(4), 561-576.
- A unified framework for brain anatomical feature registration , H. Chui, R. Schultz, L. Win, James S Duncan, A. Rangarajan, 2001, *IPMI (Info. Processing in Med. Imaging)*, 300-314.



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