

## James S. Duncan

James S. Duncan received the B.S.E.E. degree from Lafayette College in Easton, Pa. in 1972, the M.S. degree in engineering from the University of California, Los Angeles, in 1975, and the Ph.D. degree in Electrical Engineering from the University of Southern California, Los Angeles, in 1982.

In 1973, He joined the staff of Hughes Aircraft Company, Electro- Optical and Data Systems Group and participated in research and development projects related to signal and image processing for forward looking infrared (FLIR) imaging systems until 1983. During this time he held Hughes' Masters, Engineer, and Doctoral Fellowships.

In 1983, he joined the faculty of Yale University, New Haven, CT, where he currently is the Ebenezer K. Hunt Professor of Biomedical Engineering, and a Professor of Diagnostic Radiology and Electrical Engineering. In addition, Professor Duncan is currently the Director of Undergraduate Studies for the Department of Biomedical Engineering and Vice-Chair for Bioimaging Sciences research in Diagnostic Radiology at Yale.

Professor Duncan's research efforts have been in the areas of computer vision, image processing, and medical imaging, with an emphasis on biomedical image analysis. These efforts have included the segmentation of deformable structure from 3D image data, the tracking of non-rigid motion/deformation from spatiotemporal images, and the development of strategies for image-guided intervention/surgery.

He has published over 220 peer-reviewed articles in these areas and has been the principal investigator on a number of peer-reviewed grants from both the National Institutes of Health and the National Science Foundation over the past 30 years. In addition, he is a member of Eta Kappa Nu and Sigma Xi, is a Fellow of the *IEEE*, a Fellow of the *American Institute for Medical and Biological Engineering (AIMBE)* and a Fellow of the *Society for Medical Image Computing and Computer Assisted Intervention*. In 2013, he was elected to the Council of Distinguished Investigators of the *Academy of Radiology Research* and in 2014 to the *Connecticut Academy of Science and Engineering*. He is an Associate Editor for the *IEEE Transactions on Medical Imaging* and is one of the founding co-Editors-in-Chief of the journal *Medical Image Analysis* (Elsevier). He was a Fulbright Research Scholar at the Universities of Amsterdam and Utrecht in the Netherlands during part of the 1993-94 academic year. In 1997, he chaired the 15th international meeting on *Information Processing*

*in Medical Imaging* and was the general chair for the 2005 meeting on *Medical Image Computing and Computer-Assisted Intervention* (MICCAI). From 1999 to 2003, Dr. Duncan was a charter member of the National Institutes of Health (NIH) Diagnostic Imaging Study Section, serving as its Chair from 2001-2003.