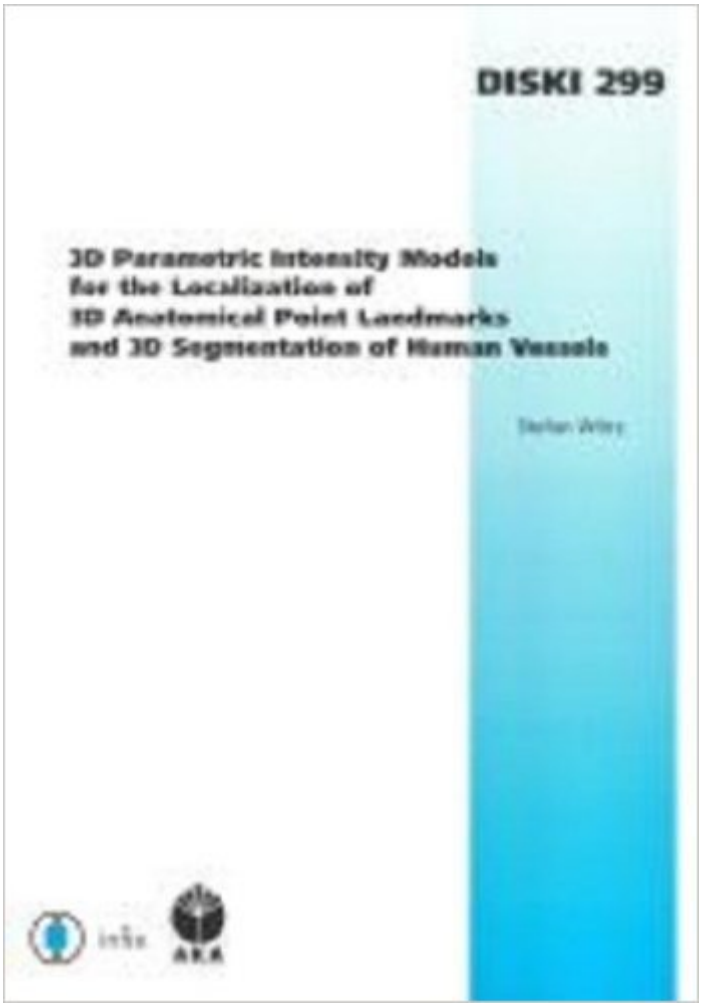
3D Parametric Intensity Models For The Localization Of 3D Anatomical Point Landmarks And 3D Segmentation Of Human Vessels (Dissertations In Artificial Intelligence: Infix, Vol. 299)

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Synopsis

This publication addresses two important problems in the field of 3D medical image analysis, namely the localization of 3D anatomical point landmarks as well as the segmentation and quantification of 3D tubular structures. 3D anatomical point landmarks are useful image features in a variety of applications, for example, for the registration of 3D brain images of different modalities (e.g. MR and CT). The central problem of utilizing anatomical point landmarks is, however, the reliable and accurate localization of such features from 3D medical images. This book introduces a new approach for the localization of 3D anatomical point landmarks, which is based on 3D parametric intensity models that are directly fitted to 3D images.IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in: -Biomedicine -Oncology -Artificial intelligence -Databases and information systems -Maritime engineering -Nanotechnology -Geoengineering -All aspects of physics -E-governance -E-commerce -The knowledge economy -Urban studies -Arms control -Understanding and responding to terrorism -Medical informatics -Computer Sciences

Book Information

Series: Dissertations in Artificial Intelligence (Book 299)

Paperback: 330 pages

Publisher: IOS Press; 1 edition (October 1, 2006)

Language: English

ISBN-10: 1586036351

ISBN-13: 978-1586036355

Product Dimensions: 1 x 5.8 x 8.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

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