



**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)**

S. Wurz

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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.

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