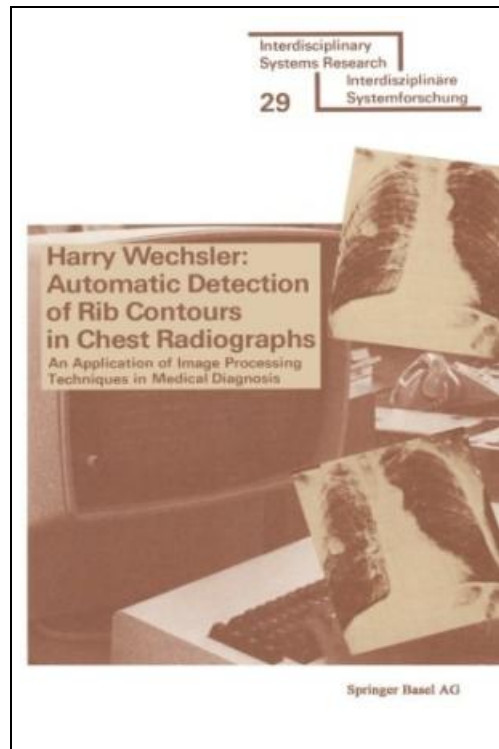


Automatic Detection of Rib Contours in Chest Radiographs: An Application of Image Processing Techniques in Medical Diagnosis (Paperback)



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AUTOMATIC DETECTION OF RIB CONTOURS IN CHEST RADIOGRAPHS: AN APPLICATION OF IMAGE PROCESSING TECHNIQUES IN MEDICAL DIAGNOSIS (PAPERBACK)



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Birkhauser Verlag AG, Switzerland, 1977. Paperback. Condition: New. 1977 ed.. Language: English . Brand New Book ***** Print on Demand *****.1.1 Statement of the Problem This work describes a new and effective computer algorithm for detecting the contours of ribs in chest radiographs. The problem, which is common to both the research areas of Machine Vision and Biomedical Computing, is to extract graphical information, such as that represented in Figure 1-lb, from a picture such as Figure 1-la. Figure 1-la shows a typical posterior-anterior (PA) chest radiograph while Figure 1-lb shows a drawing of the ventral aspect of the thorax. It is hoped that this research will contribute significantly toward developing an automated system for interpreting chest radiographs. 1.2 Why Have We Carried Out This Research? Since about one-third of the 650,000,000 medical radiographs (X-ray photographs) taken annually in the United States are chest radiographs, there is a growing awareness of the need for a computer-aided system to help diagnose these radiographs. The detection of rib contours is, of course, a necessary element in such a system. In addition to being able to accommodate the need for a mass screening program, an automated system also has the ability to detect anomalies at earlier stages. Ziskin et al (1971) state that reliable 2 (a) Original Chest Radiograph Figure 1-1. A Chest Radiograph 3 VENTRAL CONTOUR CARTILAGE (b) THE THORAX; VENTRAL ASPECT OF A CHEST RADIOGRAPH Figure 1-1 A CHEST RADIOGRAPH studies indicate that even under routine conditions radiologists fail to detect approximately 30 of abnormalities in chest X-ray films.

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