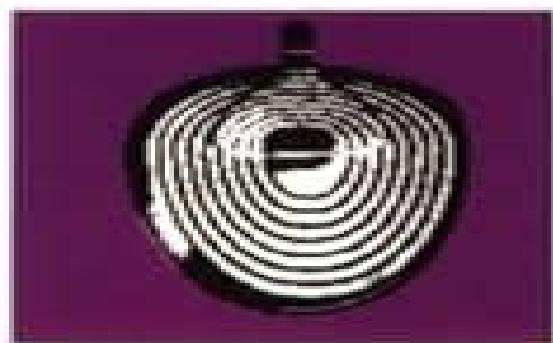


DIGITAL IMAGE PROCESSING

■ PRINCIPLES AND APPLICATIONS ■



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improve images for printing or transmission and facilitate subsequent analysis [Digitale Bildverarbeitung](#) Bernd Jähne, 2024-09-12 Dieses Lehrbuch gibt Studenten und Anwendern das notwendige Wissen an die Hand um erfolgreich Bilddaten aufzunehmen und zu verarbeiten Dabei wurde konsequent berücksichtigt dass Bildgewinnung und Verarbeitung auf weitgehend gleichen mathematischen Konzepten beruhen Es wurde großer Wert darauf gelegt die teilweise komplexen Zusammenhänge sowohl anschaulich als auch mathematisch fundiert darzustellen Der Stoff der 8 Auflage dieses seit 1989 erfolgreichen Lehrbuchs wurde neu strukturiert Der Bildgewinnung wurde entsprechend der rasanten Weiterentwicklung der Bildsensor- und Optiktechnologie der vielfältigen Methoden aus Bilddaten die dreidimensionale Welt zu rekonstruieren erweitert Dabei wurde der Fokus darauf gelegt die grundlegenden Konzepte herauszuarbeiten So kann der Leser die auf den ersten Blick verwirrende Vielfalt von Bildgewinnungsmethoden besser verstehen und lernt sie optimal einzusetzen Methoden der künstlichen Intelligenz wurden bewusst nicht in das Buch integriert Dieses Buch beinhaltet vielmehr das notwendige Wissen über Bildaufnahme und Verarbeitung um Methoden des maschinellen Lernens bestmöglich auf die Bildanalyse anwenden zu können

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and other global radiography certification exams and practising technologists wanting to refresh their knowledge

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Mousumi Gupta,Sujata Ghatak,Amlan Gupta,Abir Lal Mukherjee,2022-07-23 This book includes high quality papers presented at the Second International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis ISCM 2021 organized by Computer Applications Department SMIT in collaboration with Department of Pathology SMIMS Sikkim India and funded by Indian Council of Medical Research during 11-12 November 2021. It discusses common research problems and challenges in medical image analysis such as deep learning methods. It also discusses how these theories can be applied to a broad range of application areas including lung and chest x-ray, breast CAD, microscopy and pathology. The studies included mainly focus on the detection of events from biomedical signals.

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