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this book collects the proceedings of the international workshop on intelligent computing in pattern analysis synthesis iwicpas 2006 held in xi an china alongside the 18th international conference on pattern recognition icpr 2006 the book presents 51 revised full papers and 128 revised poster papers organized in topical sections on object detection tracking and recognition pattern representation and modeling visual pattern modeling image processing compression and coding and texture analysis synthesis

highly regarded accessible approach to image processing using open source and commercial software a computational introduction to digital image processing second edition explores the nature and use of digital images and shows how they can be obtained stored and displayed taking a strictly elementary perspective the book only covers topics that

across three volumes the handbook of image processing and computer vision presents a comprehensive review of the full range of topics that comprise the field of computer vision from the acquisition of signals and formation of images to learning techniques for scene understanding the authoritative insights presented within cover all aspects of the sensory subsystem required by an intelligent system to perceive the environment and act autonomously volume 2 from image to pattern examines image transforms image restoration and image segmentation topics and features describes the fundamental processes in the field of artificial vision that enable the formation of digital images from light energy covers light propagation color perception optical systems and the analog to digital conversion of the signal discusses the information recorded in a digital image and the image processing algorithms that can improve the visual qualities of the image reviews boundary extraction algorithms key linear and geometric transformations and techniques for image restoration presents a selection of different image segmentation algorithms and of widely used algorithms for the automatic detection of points of interest examines important algorithms for object recognition texture analysis 3d reconstruction motion analysis and camera calibration provides an introduction to four significant types of neural network namely rbf som hopfield and deep neural networks this all encompassing survey offers a complete reference for all students researchers and practitioners involved in developing intelligent machine vision systems the work is also an invaluable resource for professionals within the it software and electronics industries involved in machine vision imaging and artificial intelligence dr cosimo distante is a research scientist in computer vision and pattern recognition in the institute of applied sciences and intelligent systems isai at the italian national research council cnr dr arcangelo distante is a researcher and the former director of the institute of intelligent systems for automation issia at the cnr his research interests are in the fields of computer vision pattern recognition machine learning and neural computation

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