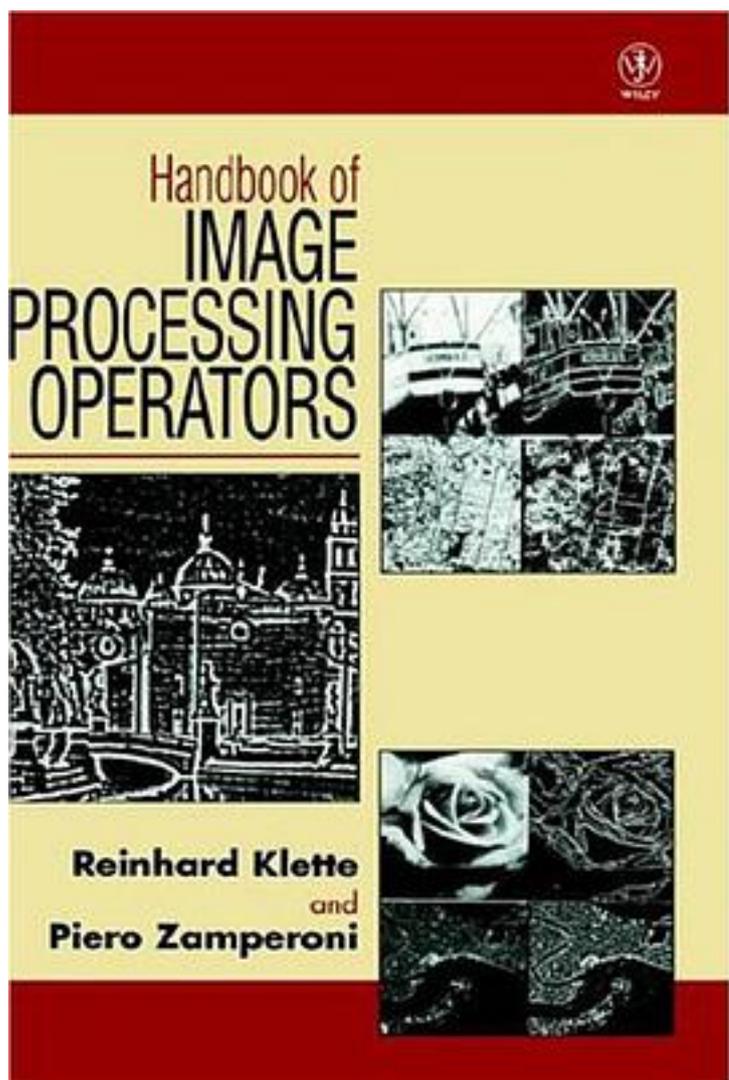


Handbook of Image Processing Operators



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Handbook of Image Processing Operators Reinhard Klette Berlin Technical University, Germany Piero Zamperoni Braunschweig Technical University, Germany The practical applications of digital image processing have expanded significantly in recent years. Interest is increasing over a wide range of disciplines, from computer vision to biomedical imaging and mechanical inspection. An invaluable reference source for all who work in image processing, this text describes the complete range of standard image processing operators and transformations. Coverage spans the fundamentals of image processing, introducing the basic terminology, describing the general control structures and illustrating a range of algorithmical procedures. The major strength of this book lies in its practical approach, offering the user operative solutions to a broad range of specific application problems in image analysis, image enhancement and feature extraction. To this end it serves as a reference to select the most suitable operators for any given problem. After the introductory chapters, each operator is presented in the same form: characterization, mathematical definition, comments and algorithmic aspects, pseudo-program, and bibliographic references. An indispensable guide for computer applications engineers at a professional, academic or research level in communications, natural sciences, medicine, and robotics who have to solve field-specific application problems using advanced digital image processing techniques. The source codes for all the operators described in the text are available on disk for UNIX and MS-DOS systems, see inside for details.

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