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Digital Image Processing: Concepts, Algorithms and Scientific Applications

Bernd Jahne

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Digital Image Processing: Concepts, Algorithms and Scientific Applications Bernd Jahne
Intended as a practical guide, this book takes the reader from basic concepts to up-to-date research topics in digital image processing. Relatively little specialist knowledge in computer sciences is required since many of the principles and mathematical tools widely used in natural sciences are also applied in digital image processing. The book discusses image acquisition and digitization, linear and nonlinear filter operations, edge detection, local orientation and texture, fast algorithms on pyramidal and multigrid data structures, morphological operations to detect the shape of objects, segmentation and classification. Further chapters deal with the reconstruction of three-dimensional objects from projections and the analysis of stereo images and image sequences with differential, correlation and filter algorithms. Many examples from different areas show how the reader can use digital image processing as an experimental tool for image data acquisition and evaluation in various research areas.

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