

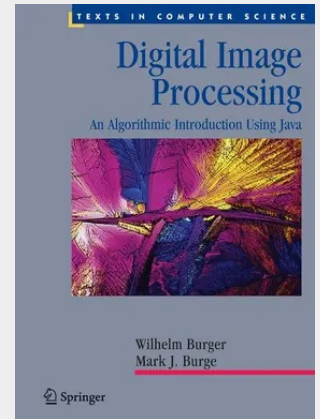
Digital Image Processing

An Algorithmic Introduction Using Java

Written as an introduction for undergraduate students, this textbook covers the most important methods in digital image processing. Formal and mathematical aspects are discussed at a fundamental level and various practical examples and exercises supplement the text. The book uses the image processing environment ImageJ, freely distributed by the National Institute of Health. A comprehensive website supports the book, and contains full source code for all examples in the book, a question and answer forum, slides for instructors, etc. Digital Image Processing in Java is the definitive textbook for computer science students studying image processing and digital processing.

This book provides a modern, self-contained introduction to digital image processing. We designed the book to be used both by learners - siring a firm foundation on which to build and practitioners in search of critical analysis and modern implementations of the most important techniques. This is the first English edition of the original German language book, which has been widely used by: • Scientists, and engineers who use image processing as a tool and wish to develop a deeper understanding and create custom solutions to imaging problems in their field. •

Information technology (IT) professionals wanting a self-study course featuring easily adaptable code and completely worked out examples enabling them to be productive right away. • Faculty and students desiring an example-rich introductory textbook suitable for an advanced undergraduate or graduate level course that features exercises, projects, and examples that have been honed during our years of experience teaching this material. While we concentrate on practical applications and concrete implementations, we do so without glossing over the important formal details and mathematics necessary for a deeper understanding of the algorithms. In preparing this text, we started from the premise that simply creating a recipe book of imaging solutions would not provide the deeper understanding needed to apply these techniques to novel problems, so instead our solutions are developed stepwise from three different perspectives: in mathematical form, as abstract pseudocode algorithms, and as complete Java programs. We use a common notation to intertwine all three perspectives—providing multiple, but linked, views of the problem and its solution.



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Nicht mehr lieferbar

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