Image Processing with ImageJ - Second Edition

Jurjen Broeke, Jose Maria Mateos Perez, Javier Pascau

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Extract and analyze data from complex images with ImageJ, the world's leading image processing tool

About This Book

- Design automated image-processing solutions and speed up image-processing tasks with ImageJ
- Create quality and intuitive interfaces for image processing by developing a basic framework for ImageJ plugins.
- Tackle even the most sophisticated datasets and complex images

Who This Book Is For

The book has been created for engineers, scientists, and developers eager to tackle image processing with one of the leading tools available. No prior knowledge of ImageJ is needed. Familiarity with Java programming will be required for readers to code their own routines using ImageJ.

What You Will Learn

- Install and set up ImageJ for image processing.
- Process images using ImageJ's built-in tools
- Create macros to perform repetitive processing tasks
- Set up and use an integrated development environment for ImageJ plugins
- Create plugins with a user-friendly interface for processing
- Use established ImageJ plugins for processing and quantification
- Generate a simple interface based on a real world example and create other interfaces for other projects
- Speed up interface development by setting multiple parameters interactively

In Detail

Advances in image processing have been vital for the scientific and technological communities, making it possible to analyze images in greater detail than ever before. But as images become larger and more complex, advanced processing techniques are required. ImageJ is built for the modern challenges of image processing – it's one of the key tools in its development, letting you automate basic tasks so you can focus on sophisticated, in depth analysis.

This book demonstrates how to put ImageJ into practice. It outlines its key features and demonstrates how to create your own image processing applications using macros and ImageJ plugins. Once you've got to grips with the basics of ImageJ, you'll then discover how to build a number of different image processing solutions. From simple tasks to advanced and automated image processing, you'll gain confidence with this innovative and powerful tool – however and whatever you are using it for.

Style and approach

A step-by-step guide to image processing and developing macros and plugins in ImageJ. The book will progress from using the built-in tools to macros and finally plugins for image processing.

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