



# Hands-on Morphological Image Processing (SPIE Tutorial Texts in Optical Engineering Vol. TT59)

*Edward R. Dougherty, Roberto A. Lotufo*

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## **Hands-on Morphological Image Processing (SPIE Tutorial Texts in Optical Engineering Vol. TT59)**

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Morphological image processing, now a standard part of the imaging scientist's toolbox, can be applied to a wide range of industrial applications. Concentrating on applications, this book shows how to analyze a problem and then develop successful algorithms based on the analysis. The book is hands-on in a very real sense: readers can download a demonstration toolbox of techniques and images from the Web so they can process the images according to examples in the text.

### **Contents**

- Preface
- List of Symbols
- Binary Erosion and Dilation
- Binary Opening and Closing
- Morphological Processing of Binary Images
- Hit-or-Miss Transform
- Gray-Scale Morphology
- Morphological Processing of Gray-Scale Images
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- Granulometries
- Automatic Design of Morphological Operators
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