



# Image Processing and Mathematical Morphology: Fundamentals and Applications

By Frank Y. Shih

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In the development of digital multimedia, the importance and impact of image processing and mathematical morphology are well documented in areas ranging from automated vision detection and inspection to object recognition, image analysis and pattern recognition. Those working in these ever-evolving fields require a solid grasp of basic fundamentals, theory, and related applications?and few books can provide the unique tools for learning contained in this text.

**Image Processing and Mathematical Morphology: Fundamentals and Applications** is a comprehensive, wide-ranging overview of morphological mechanisms and techniques and their relation to image processing. More than merely a tutorial on vital technical information, the book places this knowledge into a theoretical framework. This helps readers analyze key principles and architectures and then use the author's novel ideas on implementation of advanced algorithms to formulate a practical and detailed plan to develop and foster their own ideas. The book:

- Presents the history and state-of-the-art techniques related to image morphological processing, with numerous practical examples
- Gives readers a clear tutorial on complex technology and other tools that rely on their intuition for a clear understanding of the subject
- Includes an updated bibliography and useful graphs and illustrations
- Examines several new algorithms in great detail so that readers can adapt them to derive their own solution approaches

This invaluable reference helps readers assess and simplify problems and their essential requirements and complexities, giving them all the necessary data and methodology to master current theoretical developments and applications, as well as create new ones.

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