



300pp | March 2022

Hardcover 978-981-124-508-4 | **US\$118 / £105**

eBook-Individuals 978-981-124-510-7 | **US\$47 / £40**

Order your copy at <https://doi.org/10.1142/12497>



 **Recommend to Library**

 **World Scientific**  
Connecting Great Minds

**WorldSciNet**  
ebooks • ejournalS • databases

This special compendium introduces the basic principles, typical methods and practical techniques of 2D computer vision. The volume comprehensively covers the introductory content of computer vision and the materials are selected based on courses conducted in the past 20 years.

The useful textbook provides numerous examples and self-test questions (including hints and answers) through intuitive explanations to help readers understand abstract concepts.

This unique reference text provides the first computer vision course service for undergraduates of related majors in university and colleges. It also allows teachers to carry out online courses and strengthen teacher-student interaction when teaching.

## Contents

- Computer Vision Fundamentals
- 2-D Image Acquisition
- Spatial Domain Image Enhancement
- Frequency Domain Image Enhancement
- Image Restoration
- Color Image Enhancement
- Image Segmentation
- Primitive Detection
- Object Representation
- Object Description
- Texture Description
- Shape Description
- Object classification
- **Appendices:**
  - Mathematical Morphology
  - Visual Constancy

## Readership

Researchers, professionals, academics, undergraduate and graduate students in pattern recognition, machine perception and electrical & electronic engineering.

Inspection copy available!  
Contact [sales@wspc.com](mailto:sales@wspc.com) for more info



### For orders and enquiries:

USA | Tel: 1-201-487-9655 | E-mail: [wspc\\_us@wspc.com](mailto:wspc_us@wspc.com)

UK | Tel: 44-20-7836-0888 | E-mail: [direct.orders@marston.co.uk](mailto:direct.orders@marston.co.uk)

ASIA | Tel: 65-6466-5775 | E-mail: [sales@wspc.com](mailto:sales@wspc.com)