

## **Feature extraction & image processing for computer vision**

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**ISBN 9780123965493**

1. Introduction
2. Images, sampling, and frequency domain processing
3. Basic images processing operations
4. Low-level feature extraction (including edge detection)
5. High-level feature extraction: fixed shape matching
6. High-level feature extraction: deformable shape analysis
7. Object description
8. Introduction to texture description, segmentation, and classification
9. Moving object detection and description

Appendix 1: camera geometry fundamentals

Appendix 2: least square analysis

Appendix 3: principal components analysis

Appendix 4: color images