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**Título:**

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**Precio:** \$1168.00

**Editorial:**

**Año:** 2008

**Tema:**

**Edición:** 2ª

**Sinopsis**

**ISBN:** 9780123725387

Essential reading for engineers and students working in this cutting edge field

Ideal module text and background reference for courses in image processing and computer vision

Companion website includes worksheets, links to free software, Matlab files and new demonstrations

Image processing and computer vision are currently hot topics with undergraduates and professionals alike. Feature Extraction and Image Processing provides an essential guide to the implementation of image processing and computer vision techniques, explaining techniques and fundamentals in a clear and concise manner. Readers can develop working techniques, with usable code provided throughout and working Matlab and Mathcad files on the web.

Focusing on feature extraction while also covering issues and techniques such as image acquisition, sampling theory, point operations and low-level feature extraction, the authors have a clear and coherent approach that will appeal to a wide range of students and professionals.

The new edition includes:

New coverage of curvature in low-level feature extraction (SIFT and saliency) and features (phase congruency); geometric active contours; morphology; camera models

Updated coverage of image smoothing (anisotropic diffusion); skeletonization; edge detection; curvature; shape descriptions (moments)