

IMAGE PROCESSING FOR THE FOOD INDUSTRY

by **E R Davies** (*University of London*)

This monograph provides detailed background on the image processing problems encountered in the food industry when automatic control and inspection systems are being designed and installed. It starts with a careful study of image processing and machine vision methodology, and then goes on to analyse how this can be applied in the main areas of food processing and production. A case study approach is used to give relevance to the work, making the book user-friendly.

This book will help the food industry to observe 'due diligence', and researchers to be more aware of the problems of analysing images of food products.

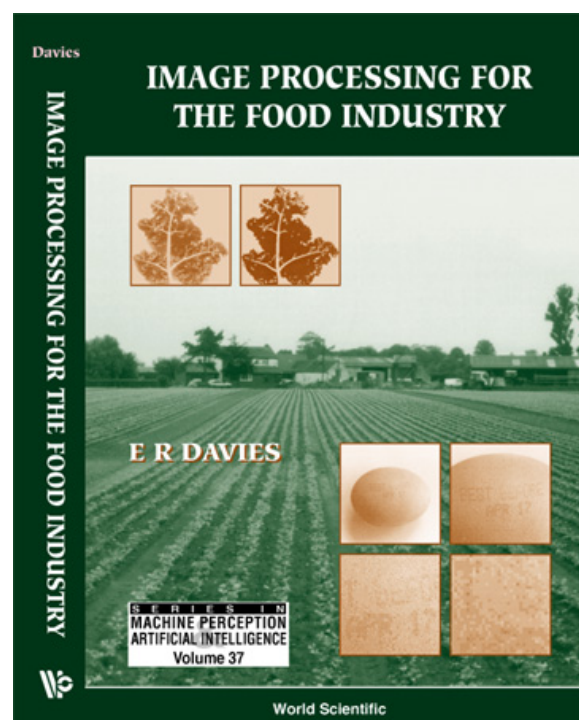
Contents:

Image Processing Methodology:

- Images and Image Processing
- Shape Analysis
- Feature Detection and Object Location
- Texture
- Three-Dimensional Processing
- Pattern Recognition

Application to Food Production:

- Inspection and Inspection Procedures
- Inspection of Baked Products
- Cereal Grain Inspection
- X-Ray Inspection
- Image Processing in Agriculture
- Vision for Fish and Meat Processing
- System Design Considerations
- Food Processing for the Millennium



Readership: Researchers and practitioners in image processing and food technology.

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By the author of: *Machine Vision: Theory, Algorithms, Practicalities*