



Image Processing, Analysis, and Machine Vision

By Milan Sonka, Vaclav Hlavac, Roger Boyle

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The brand new edition of IMAGE PROCESSING, ANALYSIS, AND MACHINE VISION is a robust text providing deep and wide coverage of the full range of topics encountered in the field of image processing and machine vision. As a result, it can serve undergraduates, graduates, researchers, and professionals looking for a readable reference. The book's encyclopedic coverage of topics is wide, and it can be used in more than one course (both image processing and machine vision classes). In addition, while advanced mathematics is not needed to understand basic concepts (making this a good choice for undergraduates), rigorous mathematical coverage is included for more advanced readers. It is also distinguished by its easy-to-understand algorithm descriptions of difficult concepts, and a wealth of carefully selected problems and examples.

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- Sales Rank: #1078652 in Books
- Published on: 2014-01-01
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x 1.30" w x 8.20" l, 3.40 pounds
- Binding: Hardcover
- 912 pages

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Editorial Review

Review

"...intuitive and easy to understand, and is well structured. Concepts are clearly explained and illustrated with images and diagrams."

"Many of these problems refer to real-world applications, which makes them particularly interesting to the readers."

About the Author

Milan Sonka is Professor of Electrical and Computer Engineering at the University of Iowa. His research interests include medical image analysis, computer-aided diagnosis, and machine vision.

Vaclav Hlavac is Professor of Cybernetics at the Czech Technical University, Prague. his research interests are knowledge based image analysis, 3D model-based vision and relations between statistical and structural pattern recognition.

Roger Boyle is Professor Emeritus of Computing and was Head of the School of Computing at the University of Leeds, England where his research interests are low-level vision and pattern recognition.

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