

## **The Essential Guide to Image Processing**

Bovik, A.I. *The Essential Guide to Image Processing*. Burlington, MA: Academic Press (Elsevier), 2009, 853 pp. \$89.95 (Softbound).

- A complete introduction to the basic and intermediate concepts of image processing from the leading people in the field
- A CD-ROM contains 70 highly interactive demonstration programs with user friendly interfaces to provide a visual presentation of the concepts
- Up-to-date content, including statistical modeling of natural, anisotropic diffusion, image quality, and the latest developments in JPEG 2000

This comprehensive and state-of-the-art approach to image processing gives engineers and students a thorough introduction, and includes full coverage of key applications: image watermarking, fingerprint recognition, face recognition, and iris recognition and medical imaging. To help learn the concepts and techniques, the book contains a CD-ROM of 70 highly interactive visual demonstrations. Key algorithms and their implementation details are included, along with the latest developments in the standards.

Al Bovik currently holds the Curry/Cullen Trust Endowed Chair Professorship in the Department of Electrical and Computer Engineering at The University of Texas at Austin, where he is the Director of the Laboratory for Image and Video Engineering (LIVE). He has published over 500 technical articles and six books in the general area of image and video processing and holds two U.S. patents.

Dr. Bovik has received a number of major awards from the IEEE Signal Processing Society, including: the Education Award (2007); the Technical Achievement Award (2005); the Distinguished Lecturer Award (2000); and the Meritorious Service Award (1998). He is also a recipient of the IEEE Third Millennium Medal (2000), and has won two journal paper awards from the Pattern Recognition Society (1988 and 1993). He is a Fellow of the IEEE, a fellow of the Optical Society of America, and a Fellow of the Society of Photo-Optical and Instrumentation Engineers. Dr. Bovik has served as Editor-in-Chief of the IEEE Transactions on Image Processing (1996-2002) and created and served as the first General Chairman of the IEEE International Conference on Image Processing, which was held in Austin, Texas in 1994.