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William F. Schreiber

# Fundamentals of Electronic Imaging Systems

Some Aspects of Image Processing

Series: Springer Series in Information Sciences

Image processing is a fascinating applications area, not a fundamental science of sufficient generality to warrant studying it for its own sake. In this area, there are many opportunities to apply art and experience, as well as knowledge from a number of sciences and engineering disciplines, to the creation of products and processes for which society has an expressed need. Without this need, work in the field would be sterile, but with it, image processing can readily provide the interested scientist or engineer with a professional lifetime of challenging problems and corresponding rewards. This point of view motivates this book and has influenced the selection and treatment of topics. I have not attempted to be encyclopedic; this service has already been performed by others. It will be noted that the word "digital" is not in the title of this book. While much of present-day image processing is implemented digitally, this work is not intended for those who think of image processing as a branch of digital signal processing, except, perhaps, to try to change their minds. Image gathering and image display, vital parts of the field with strong effects on image quality, are inherently analog, as is image transmission in today's most important medium, the over-the-air broadcasting channel. The latter is not about to die, as it is by far the cheapest way to deliver broadband signals to the home. Likewise, the principal means of recording images on paper are continuous and not discrete.

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