



Nonlinear Model-Based Image/Video Processing and Analysis

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A comprehensive survey of techniques and applications in image and video processing and analysis. A widely varied selection of experts provides extensive coverage of nonlinear model-based techniques in image and video processing and analysis. This volume not only details new techniques in still image and digital video but also discusses applications in computer vision, multimedia, and visual information retrieval systems. All nonlinear, model-based techniques are detailed, and a complete and up-to-date accounting of the most important and effective algorithms is included for every application and technique discussed. The applications described also include such real-world uses as multimedia information retrieval, automatic surveillance, lip tracking, and much more. Analytical techniques such as Boolean and stack filters, rational functions, mathematical morphology techniques, and adaptive order statistic filtering receive detailed treatment as they apply to specific uses such as image compression, segmentation, old motion picture restoration, image/video interpolation, and noise smoothing. Chapters include: * Optimal Design of Boolean and Stack Filters and Their Application in Image Processing * Image Processing Using Rational Functions * Mathematical Morphology and Motion Picture Restoration * Adaptive Order Statistic Filtering of Still Images and Image Sequences * Video Segmentation Based on Multiple Features for Interactive and Automatic Multimedia Applications * Invariant Features in Pattern Recognition-Fundamentals and Applications * Image Models for Facial Feature Tracking. Students, engineers, and scientists will appreciate both the wide range of expert opinion in this comprehensive volume and the detailed coverage of the algorithms and mathematical models used in state-of-the-art image and video processing.

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