

Microscopic Image Analysis for Life Science Applications is the first book to bridge the gap between biomedical imaging and the bioscience community. This unique resource offers a detailed understanding of imaging platforms, fluorescence imaging, and fundamental image processing algorithms. Further, it guides readers through the application of advanced image analysis methods and techniques to specific biological problems. This book presents applications that span a wide range of scales, from the detection of signaling events in subcellular structures to the automated analysis of tissue structures. Other critical areas discussed include the dynamics of cell populations and in vivo microscopy. This cutting-edge volume is supported with more than 160 illustrations that reinforce key topics throughout the book.



CD-ROM Included! Contains full-color images and videos that further illustrate topics discussed in the book.

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