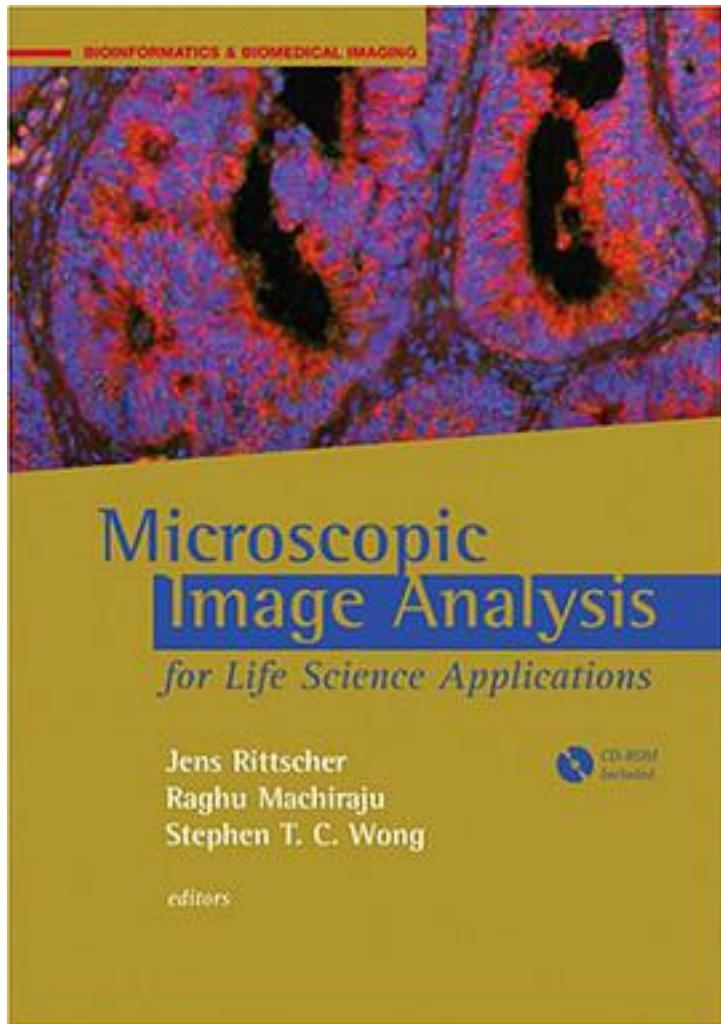


# Microscopic Image Analysis for Life Science Applications



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Bioimaging in life sciences is a burgeoning area that is of growing interest to today's professionals and researchers in the field. This is the first book that bridges the gap between biomedical imaging and the bioscience community. This unique resource gives professionals 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. The book presents applications that span a wide range of scales, from the detection of signaling events in sub-cellular structures, to the automated analysis of tissue structures. Other critical areas discussed include the dynamics of cell populations and *in vivo* microscopy. A DVD is also included. It contains full-color images, movies and other valuable supplementary material that further illustrate topics discussed in the book.

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