

"In this book, mainly agriculture and food applications are covered with few medical applications... Extensive chapters on six specialized imaging techniques and their applications in [the] food and agricultural sector ... Image acquisition methods, image analysis, and classification methods are explained elaborately in an easy-to-follow manner."

—Dr. Annamalai Manickavasagan, Sultan Qaboos University

Highlights the Emergence of Image Processing in Food and Agriculture

In addition to uses specifically related to health and other industries, biological imaging is now being used for a variety of applications in food and agriculture. **Bio-Imaging: Principles, Techniques, and Applications** fully details and outlines the processes of bio-imaging applicable to food and agriculture, and connects other bio-industries, as well as relevant topics. Due to the noncontact and nondestructive nature of the technology, biological imaging uses unaltered samples, and allows for internal quality evaluation and the detection of defects. Compared to conventional methods, biological imaging produces results that are more consistent and reliable, and can ensure quality monitoring for a variety of practices used in food and agricultural industries as well as many other biological industries. The book highlights every imaging technique available along with their components, image acquisition procedures, advantages, and comparisons to other approaches.

- Describes essential components of imaging technique in great detail
- Incorporates case studies in appropriate chapters
- Contains a wide range of applications from a number of biological fields

Bio-Imaging: Principles, Techniques, and Applications focuses on the imaging techniques for biological materials and the application of biological imaging. This technology, which is quickly becoming a standard practice in agriculture- and food-related industries, can aid in enhanced process efficiency, quality assurance, and food safety management overall.

 **CRC Press**
Taylor & Francis Group
an informa business
www.crcpress.com

6000 Broken Sound Parkway, NW
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K20618

ISBN: 978-1-4665-9367-1

