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Hyperspectral imaging or imaging spectroscopy is a novel technology for acquiring and analysing an image of a real scene by computers and other devices in order to obtain quantitative information for quality evaluation and process control. Image processing and analysis is the core technique in computer vision. With

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the continuous development in hardware and software for image processing and analysis, the application of hyperspectral imaging has been extended to the safety and quality evaluation of meat and produce. Especially in recent years, hyperspectral imaging has attracted much

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research and development attention, as a result rapid scientific and technological advances have increasingly taken place in food and agriculture, especially on safety and quality inspection, classification and evaluation of a wide range of food products, illustrating the great advantages of using the

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technology for objective, rapid, non-destructive and automated safety inspection as well as quality control.

Therefore, as the first reference book in the area, Hyperspectral Imaging Technology in Food and Agriculture focuses on these recent advances. The book is divided into three parts, which begins with an

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outline of the fundamentals of the technology, followed by full covering of the application in the most researched areas of meats, fruits, vegetables, grains and other foods, which mostly covers food safety and quality as well as remote sensing applicable for crop production.

Hyperspectral Imaging

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Technology in Food and Agriculture is written by international peers who have both academic and professional credentials, with each chapter addressing in detail one aspect of the relevant technology, thus highlighting the truly international nature of the work. Therefore the book should provide the engineer and

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technologist working in research, development, and operations in the food and agricultural industry with critical, comprehensive and readily accessible information on the art and science of hyperspectral imaging technology. It should also serve as an essential reference source to undergraduate and

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postgraduate students
and researchers in
universities and research
institutions.

The fundamental
mathematical tools
needed to understand
machine learning
include linear algebra,
analytic geometry,
matrix decompositions,

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vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between

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Mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For

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students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes

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worked examples and exercises to test understanding.

Programming tutorials are offered on the book's web site.

Hyperspectral imagery has received considerable attention in the last decade as it provides rich spectral information and allows the analysis of objects

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that are unidentifiable by traditional imaging techniques. It has a wide range of applications, including remote sensing, industry sorting, food analysis, biomedical imaging, etc. However, in contrast to RGB images from which information can be intuitively extracted, hyperspectral data is only useful with proper

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processing and analysis.

This book covers theoretical advances of hyperspectral image processing and applications of hyperspectral processing, including unmixing, classification, super-resolution, and quality estimation with classical and deep learning methods.

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Amstat News asked three review editors to rate their top five favorite books in the September 2003 issue. *Methods of Multivariate Analysis* was among those chosen. When measuring several variables on a complex experimental unit, it is often necessary to analyze the variables simultaneously, rather

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than isolate them and consider them individually. Multivariate analysis enables researchers to explore the joint performance of such variables and to determine the effect of each variable in the presence of the others. The Second Edition of Alvin Rencher's *Methods of Multivariate Analysis* provides

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students of all statistical backgrounds with both the fundamental and more sophisticated skills necessary to master the discipline. To illustrate multivariate applications, the author provides examples and exercises based on fifty-nine real data sets from a wide variety of scientific fields. Rencher takes a

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"methods" approach to his subject, with an emphasis on how students

and practitioners can employ multivariate analysis in real-livesituations. The Second Edition contains revised and updated chapters from the critically acclaimed First Edition as well as brand-new chapters

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on: Cluster analysis

Multidimensional

scaling Correspondence

analysis Biplots Each

chapter contains

exercises, with

corresponding answers

and hints in the

appendix, providing

students the opportunity

to test and extend their

understanding of the

subject. Methods

of Multivariate Analysis

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provides an authoritative reference for statistics students as well as for practicing scientists and clinicians.

A thorough update to what is already one of the most comprehensive and rigorous texts in the field, the new edition incorporates the many advancements made in remote sensing over the

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past decade.

Image Ysis

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In an age where the amount of data collected from brain imaging is increasing constantly, it is of critical importance to analyse those data within an accepted framework to ensure proper integration and comparison of the information collected.

This book describes the

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ideas and procedures
that underlie the
analysis of signals
produced by the brain.

The aim is to
understand how the
brain works, in terms of
its functional
architecture and
dynamics. This book
provides the
background and
methodology for the
analysis of all types of

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brain imaging data, from functional magnetic resonance imaging to magnetoencephalography. Critically, Statistical Parametric Mapping provides a widely accepted conceptual framework which allows treatment of all these different modalities. This rests on an understanding of the brain's functional

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anatomy and the way
that measured signals
are caused

experimentally. The
book takes the reader
from the basic concepts
underlying the analysis
of neuroimaging data to
cutting edge approaches
that would be difficult to
find in any other source.
Critically, the material is
presented in an
incremental way so that

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the reader can understand the precedents for each new development. This book will be particularly useful to neuroscientists engaged in any form of brain mapping; who have to contend with the real-world problems of data analysis and understanding the techniques they are using. It is primarily a

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scientific treatment and a didactic introduction to the analysis of brain imaging data. It can be used as both a textbook for students and scientists starting to use the techniques, as well as a reference for practicing neuroscientists. The book also serves as a companion to the software packages that

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Have been developed for
brain imaging data
analysis. An essential
reference and

companion for users of
the SPM software

Provides a complete
description of the
concepts and procedures
entailed by the analysis
of brain images Offers
full didactic treatment of
the basic mathematics
behind the analysis of

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Brain imaging data
Stands as a
compendium of all the
advances in
neuroimaging data
analysis over the past
decade Adopts an easy
to understand and
incremental approach
that takes the reader
from basic statistics to
state of the art
approaches such as
Variational Bayes

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Structured treatment of data analysis issues that links different modalities and models Includes a series of appendices and tutorial-style chapters that makes even the most sophisticated approaches accessible

Remote sensing has witnessed a renaissance as new sensor systems, data collection

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capabilities and image processing methodologies have expanded the technological capabilities of this science into new and important applications areas. Perhaps nowhere has this trend been more evident than in the study of earth environments. Within this broad application area remote

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ensing has proven to be an invaluable asset supporting timely data gathering at a range of synoptic scales, facilitating the mapping of complex landscapes and promoting the analysis of environmental process. Yet remote sensing ' s contribution to the study of human / environmental

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interaction is scattered throughout a rich and diverse literature spanning the social and physical sciences, which frustrates access to, and the sharing of the knowledge gained through, these recent advances, and inhibits the operational use of these methods and techniques in day to day environmental practice,

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a recognized gap that reduces the effectiveness of environmental management programs.

The objective of this book is to address this gap and provide the synthesis of method and application that is currently missing in the environmental science, re-introducing remote sensing as an important decision-support

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technology. Hyperspectral

Image Ysis

Introduces machine
learning and its

algorithmic paradigms,
explaining the principles
behind automated
learning approaches and
the considerations
underlying their usage.

This book brings
together a collection of
invited interdisciplinary

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perspectives on the recent topic of Object-based Image Analysis (OBIA). Its content is based on select papers from the 1st OBIA International Conference held in Salzburg in July 2006, and is enriched by several invited chapters. All submissions have passed through a blind peer-review process

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resulting in what we believe is a timely volume of the highest scientific, theoretical and technical standards.

The concept of OBIA first gained widespread interest within the GIScience (Geographic Information Science) community circa 2000, with the advent of the first commercial software for what was

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then termed ‘ object-oriented image analysis ’ . However, it is widely agreed that OBIA builds on older segmentation, edge-detection and classification concepts that have been used in remote sensing image analysis for several decades. Nevertheless, its emergence has provided a new critical bridge to

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spatial concepts applied
in multiscale landscape
analysis, Geographic
Information Systems
(GIS) and the synergy
between image-objects
and their radiometric
char- teristics and
analyses in Earth
Observation data (EO).

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