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Density Estimation

8.3 Nonparametric
density estimators:

multivariate data

Kernel Density
Estimation

Multivariate

Gaussian

distributions Kernel

Density Estimation

Point Pattern

Analysis Part 5:

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Important Concepts
and Multivariate
Tools
Nonparametric
Kernel regression
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Data Visualization
with R and Lattice,
Introduction
Multivariate

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Capability Analysis

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Stats StatQuest:

PCA main ideas in

only 5 minutes!!!

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Introduction to

Regression

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What is Multivariate
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Analysis Clustering

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Part II

Gaussian Mixture
Models - The Math
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(Week 7) R Data

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KDE in SAS

R: Exploratory Data

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Analysis

01 Feb 2017,

ASTRO Class, Eric

Feigelson,

"Smoothing &

Local Regression"

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in Excel

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provides an
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emphasizing the use
of visualization
tools. Rather than

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Multivariate

outlining the theoretical concepts of classification and regression, this

book focuses on the

procedures for

estimating a

multivariate

distribution via

smoothing.

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of classification and regression, this book focuses on the procedures for estimating a multivariate distribution via smoothing.

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and state-of-the-art

tools for visualizing

and understanding

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provides an illustrative and hands-on approach to the multivariate aspects of density estimation, emphasizing the use of visualization tools. Rather than outlining...

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It was soon

recognised that

analogous

estimators for

multivariate data

would be an

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Important addition
to multivariate
Data Density
statistics. Based on
Estimation And
research carried
Visualization
out in the 1990s
and 2000s,
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multivariate kernel
Probability And
density estimation
Statistics
has reached a level
of maturity
comparable to its
univariate
counterparts.

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~~Multivariate kernel
density estimation -
Wikipedia~~

For any real
vectors of x , the
multivariate kernel
density estimator is
given by $f^{\wedge} H (x)$

$= \frac{1}{n} \sum_{i=1}^n K$
 $H (x - y_i) ,$

where $K H (x) =$
 $\frac{1}{|H|} K (H$
 $- \frac{1}{2} x) , K (\cdot$
 $)$ is the kernel

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Smoothing Of

smoothing function,
and H is the d -by- d
bandwidth matrix.

Estimation And

~~Kernel smoothing
function estimate
for multivariate data~~

~~...~~

~~[f,xi] =~~

~~ksdensity(x)~~

~~returns a~~

~~probability density
estimate, f, for the
sample data in the~~

File Type PDF

Smoothing Of

vector or two-
column matrix x .

The estimate is
based on a normal
kernel function, and
is evaluated at
equally-spaced
points, x_i , that
cover the range of
the data in

`x.ksdensity`

estimates the
density at 100
points for univariate

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Smoothing Of

data, or 900 points
for bivariate data.

Kernel smoothing
function estimate
for univariate and ...
certain types of
target density the
use of full (i.e.
unconstrained)
bandwidth matrices
offers the potential
for significantly
improved density

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estimation. In this

paper, we generalize earlier work from diagonal to full bandwidth matrices, and develop a smooth cross-validation (SCV) methodology for multivariate data.

~~Cross-validation~~

~~Bandwidth Matrices~~

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~~for Multivariate ...~~

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exposition of the

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functions and their derivatives. The

focus then turns to the applications of

these approaches to more complex data

analysis goals, many with a geomet

ric/topological

flavour, such as

level set estimation,

clustering

(unsupervised

learning), principal

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theoretical concepts

of classification and

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author first

provides an

introduction to

various visualization

tools that can be

used to construct

representations of

multivariate

functions, sets,

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data, and scales of multivariate density estimates. Next, readers are

presented with an extensive review of the basic mathematical tools

that are needed to asymptotically

analyze the behavior of

multivariate density estimators, with

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coverage of density classes, lower bounds, empirical processes, and manipulation of density estimates.

The book concludes with an extensive toolbox of

multivariate density estimators, including anisotropic kernel estimators,

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minimization

estimators,
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adaptive

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figures can be easily

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and every chapter
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numerous exercises
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that allow readers
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to test their
understanding of
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techniques. The R
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software is freely
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each chapter that

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provide short
instructions for
working in the R
environment.

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mathematical
analysis with
practical
implementations,
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Multivariate Data is
an excellent book
for courses in
multivariate

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analysis, data

analysis, and

nonparametric

statistics at the upper-

undergraduate

and graduate levels.

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valuable reference

for practitioners

and researchers in

the fields of

statistics, computer

science, economics,

and engineering.

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numerous exercises
that allow readers

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site along with
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each chapter that
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instructions for
working in the R
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for courses in
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nonparametric
statistics at the upp

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and graduate levels.

It also serves as a
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for practitioners
and researchers in
the fields of
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science, economics,
and engineering.

Kernel smoothing
has greatly evolved
since its inception

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adoption is due to
its fundamental role
for multivariate
exploratory data
analysis, as well as
the crucial role it
plays in composite

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complex data
challenges.

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estimating

probability density functions and their derivatives. The

focus then turns to

the applications of these approaches to more complex data analysis goals,

many with a geomet

ric/topological flavour, such as

level set estimation,

clustering

clustering

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(unsupervised learning), principal curves, and feature significance. Other topics, while not direct applications of density (derivative) estimation but sharing many commonalities with the previous settings, include classification

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(supervised learning), nearest neighbour estimation, and deconvolution for data observed with error. For a data scientist, each chapter contains illustrative Open data examples that are analysed by the most appropriate kernel smoothing

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Method. The

emphasis is always placed on an intuitive

understanding of the data provided by the accompanying

statistical

visualisations. For a reader wishing to investigate further the details of their underlying

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efficient software
implementation are
also discussed.

Jos é E. Chac ó n is
an associate
professor at the

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Department of

Mathematics of the

Universidad de

Extremadura in

Spain. Tarn Duong

is a Senior Data

Scientist for a start-

up which provides

short distance

carpooling services

in France. Both

authors have made

important

contributions to

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Kernel smoothing
research over the
last couple of
decades.

Visualization

Kernel smoothing
refers to a general
methodology for
recovery of

underlying
structure in data
sets. The basic
principle is that
local averaging or

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Smoothing is performed with respect to a kernel function. This book provides uninitiated readers with a feeling for the principles, applications, and analysis of kernel smoothers. This is facilitated by the authors' focus on the simplest

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settings, namely density estimation and nonparametric regression. They pay particular attention to the problem of choosing the smoothing parameter of a kernel smoother, and also treat the multivariate case in detail. Kernel Smoothing is self-

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contained and

assumes only a

basic knowledge of

statistics, calculus,

and matrix algebra.

It is an invaluable

introduction to the

main ideas of kernel

estimation for

students and

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other discipline and

provides a

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reference for those familiar with the topic.

Estimation And

Written to convey an intuitive feel for both theory and practice, its main objective is to

illustrate what a powerful tool density estimation can be when used not only with

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univariate and
bivariate data but
also in the higher
dimensions of
trivariate and
quadrivariate
information. Major
concepts are
presented in the
context of a
histogram in order
to simplify the
treatment of
advanced

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as a multitude of

problems and

solutions.

Statistics

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applications, this

book covers a very

broad range,

including simple and

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Complex univariate

and multivariate

density estimation,

nonparametric

regression

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smoothing, and

applications of

smoothing to other

areas of statistics.

It will thus be of

particular interest

to data analysts, as

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from actual data
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rather than
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while the
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will interest
statisticians
studying the field.
Over 750
references allow
researchers to find

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the original sources
for more details,
and the

"Computational
Issues" sections

provide sources for
statistical software
that use the
methods discussed.

Each chapter
includes exercises
with a heavily
computational focus
based upon the data

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sets used in the book, making it equally suitable as a textbook for a course in smoothing.

Clarifies modern data analysis through nonparametric density estimation for a complete working knowledge

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methods Featuring
a thoroughly
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maintains an
intuitive approach
to the underlying
methodology and

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of density
estimation.

Including new
material and
updated research in
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algorithms, and up-
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presented in the
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analysis. The new

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the various density
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techniques and

methods that can be

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big data. Defining

optimal

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estimators, the

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demonstrates the

density estimation

tools to use when

dealing with various

multivariate

structures in

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bivariate, trivariate,

and quadrivariate

data analysis.

Continuing to

illustrate the major

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updated
presentation of
graphic visualization
using computer

software such as R

A clear discussion
of selections of
important research

during the past

decade, including
mixture estimation,
robust parametric

modeling

algorithms, and

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clustering More
than 130 problems
to help readers
reinforce the main
concepts and ideas
presented Boxed
theorems and
results allowing
easy identification
of crucial ideas
Figures in color in
the digital versions
of the book A
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related data sets

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Practice, and

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ideal reference for
theoretical and

applied statisticians,
practicing

engineers, as well
as readers

interested in the
theoretical aspects

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of nonparametric
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courses in kernel
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smoothing,
advanced
computational

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distributions.

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to statistical
learning and its
applications through
visualization
methods With a
unique and
innovative
presentation,

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Multivariate

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Regression and

Visualization

provides readers

with the core

statistical concepts

to obtain complete

and accurate

predictions when

given a set of data.

Focusing on

nonparametric

methods to adapt to

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the multiple types of data generating mechanisms, the book begins with an overview of classification and regression. The book then

introduces and examines various tested and proven visualization techniques for learning samples

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and functions.

Multivariate

Nonparametric

Regression and

Visualization

identifies risk

management,

portfolio selection,

and option pricing

as the main areas in

which statistical

methods may be

implemented in

quantitative finance.

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The book provides

coverage of key

statistical areas

including linear

methods, kernel

methods, additive

models and trees,

boosting, support

vector machines,

and nearest

neighbor methods.

Exploring the

additional

applications of

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methods,
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extensive appendix
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training material to
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presented

computations and
research Multiple

examples to

demonstrate the

applications in the
field of finance

Sections with

formal definitions of

the various applied
methods for

readers to utilize

throughout the book

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Visualization is an

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function estimation,

advanced topics in

statistics, and

quantitative finance.

The book is also an

excellent reference

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for practitioners

who apply
statistical methods
in quantitative

finance.

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Kernel smoothing
refers to a general
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sets. The basic
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local averaging or smoothing is performed with respect to a kernel function. This book provides uninitiated readers with a feeling for the principles, applications, and analysis of kernel smoothers. This is facilitated by the authors' focus on

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and nonparametric

regression. They

pay particular
attention to the
problem of choosing
the smoothing

parameter of a
kernel smoother,
and also treat the
multivariate case in
detail. Kernal

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Smoothing Of

Smoothing is self-contained and assumes only a basic knowledge of statistics, calculus, and matrix algebra.

It is an invaluable introduction to the main ideas of kernel estimation for students and researchers from other discipline and provides a

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Comprehensive

reference for those familiar with the topic.

Visualization

Kernel smoothing has greatly evolved since its inception to become an

essential

methodology in the data science tool kit for the 21st century. Its

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Multivariate

widespread adoption is due to its fundamental role for multivariate

exploratory data

analysis, as well as the crucial role it plays in composite

solutions to

complex data

challenges.

Multivariate Kernel

Smoothing and Its

Applications offers

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a comprehensive overview of both aspects. It begins with a thorough exposition of the approaches to achieve the two basic goals of estimating

probability density functions and their derivatives. The focus then turns to the applications of

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These approaches to more complex data analysis goals, many with a geometric/topological flavour, such as level set estimation, clustering (unsupervised learning), principal curves, and feature significance. Other topics, while not direct applications

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Smoothing Of
Multivariate
of density
(derivative)
Data Density
estimation but
Estimation And
sharing many
Visualization
commonalities with
Wiley Series In
the previous
Probability And
settings, include
Statistics
classification
(supervised
learning), nearest
neighbour
estimation, and
deconvolution for
data observed with

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error. For a data

scientist, each

chapter contains

illustrative Open

data examples that

are analysed by the

most appropriate

kernel smoothing

method. The

emphasis is always

placed on an

intuitive

understanding of

the data provided

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Smoothing Of
Multivariate
by the
accompanying
statistical
visualisations. For a
reader wishing to
investigate further
the details of their
underlying
statistical
reasoning, a
graduated
exposition to a
unified theoretical
framework is

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provided. The algorithms for efficient software implementation are also discussed.

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is a Senior Data

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Scientist for a start-up which provides short distance carpooling services in France. Both authors have made important contributions to kernel smoothing research over the last couple of decades.

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