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Using
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an image. Lesson
28: Max and Min
Filtering in
Image Processing
using Matlab
Face Recognition
with MATLAB in
R2014b ~~Labeling~~
~~of objects in an~~
~~image using~~
~~segmentation in~~

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Matlab Read and
Display an Image
in Matlab

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Matlab: counting
objects in the
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**Image
acquisition
using webcam in
Matlab** *How to*

*Design Basic GUI
Graphical user
Interface in
MATLAB and Image
Processing*

Lecture 2: How
to read, write
and display an
image

Conversions of

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images from one
format to other
using MATLAB

Digital image

processing: p038

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Transform with

Matlab Demo How

to Read, Write

\u0026amp; Display

Images in MATLAB

| Digital Image

Processing Using

MATLAB in

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*Getting Started
with Image*

Processing using

MATLAB

**Introduction to
Image processing
toolbox of
Matlab**

**Conversion of
Images from one
format to
another in**

MATLAB | Digital

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**Image Processing
Using MATLAB**

Hole Counting
Algorithm for

Binary Images |

Digital Image
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MATLAB IMAGE

PROCESSING WITH

MATLAB

INTRODUCTION -1

(IN HINDI)

~~Digital Image~~

~~Processing Using~~

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~~Matlab~~

Digital image
processing
algorithms can
be used to:

Convert signals
from an image
sensor into
digital images
Improve clarity,
and remove noise
and other
artifacts
Extract the

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size, scale, or
number of
objects in a
scene Prepare
images for
display or
printing
Compress images
for
communication
across ...

~~Digital Image
Processing~~

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~~MATLAB &~~

~~Simulink~~

Digital Image

Processing

Projects; Rate

control for

lossless region

of interest

coding in HEVC

intra-coding

with

applications to

digital

pathology images

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— Digital Image
Processing
Projects: An
Optimized

Generic Client
Service API for
Managing Large
Datasets within
a Data

Repository —
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Processing
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Delta-Sigma
Modulator for
Biomedical
Ultrasound ...

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~~Digital Image
Processing
Projects~~

~~MATLAB PROJECTS~~

Digital Image
Processing Using
MATLAB offers a
balanced
treatment of

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image processing
fundamentals and
the software
principles used
in their
implementation.

The book
integrates
material from
the 4th edition
of Digital Image
Processing by
Gonzalez and
Woods, the

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Image Processing Using Matlab
Toolbox. Image Processing
Toolbox provides a stable, well-supported software environment for addressing a broad range of applications in

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digital image
processing.

~~Digital Image~~

~~Processing Using~~

~~MATLAB, 3rd
edition ...~~

The Image

Processing

Toolbox provides

a stable, well-

supported

software

environment for

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addressing a broad range of applications in digital image processing. A unique feature of Digital Image Processing Using MATLAB is its emphasis on showing how to enhance those tools by developing new

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code. This is important in image processing, an area that normally requires extensive experimental work in order to arrive at acceptable application solutions. Some

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Highlights

Processing

~~D igital Image
Processing Using~~

~~MATLAB, 2nd
edition~~

Image mirroring.

Mirroring

technique is the

rotating of

reversed image

on the

horizontal axis.

In MATLAB Image

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Processing
Toolbox has
imrotate ()
function for
rotating image.
This function
needs three
properties which
are image matrix
variable,
rotating angle,
and
interpolation
method (Figure

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Image).

Processing

~~Digital Image~~

~~Processing with~~

~~MATLAB |~~

~~IntechOpen~~

Digital Image

Processing Using

MATLAB is the

first book to

offer a balanced

treatment of

image processing

fundamentals and

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the software principles used in their implementation.

The book integrates material from the leading text, Digital Image Processing by Gonzalez and Woods, and the Image Processing Toolbox from The

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MathWorks, Inc.,
a leader in
scientific
computing.

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MATLAB, 2nd ed.
by Rafael C ...~~

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articles,
fundamentals, as
well as advanced
topics of image
processing using
MATLAB, are
discussed. The
articles cover
basic to
advanced
functions of
MATLAB's image
processing
toolbox (IPT)

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Image and their effects on different images. Part I in this series gives a brief introduction to digital images and MATLAB followed by basic image processing operations in MATLAB including

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image reading,
display and
storage back
into the disk.

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~~Image processing
using MATLAB:~~

~~Basic operations~~

From Figure 2.1,
Digital Image
Processing Using
MATLAB, 2nd ed.

Used with
permission. When

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displaying
images in
MATLAB, the
usual convention
is for the
center of the
upper-left pixel
to be at $(1,1)$,
the x -axis to
point to the
right, and the y
-axis to point
down. Images as
matrices and

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arrays

Processing

~~Digital image~~

~~processing using~~

~~MATLAB: digital~~

~~image ...~~

□ Digital Image

Processing Using

MATLAB Second

Edition □ □□□□□□□

□□□□matlab□□□□□

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Processing □ Third

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Using Matlab
matlab

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Processing Using
MATLAB Second
Edition~~

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leading digital
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books and other educational resources. The following books are supported by this site:

Digital Image Processing Using MATLAB, 3rd Ed.

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operations, but
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with Image
Processing using
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Image Processing
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matlab codes for
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This new, 3rd
edition of
Digital Image
Processing Using

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MATLAB features extensive revisions of the topics from the 2nd ed. In addition, this edition includes comprehensive new MATLAB implementation of image transforms, spectral color models,

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geometric
transformations,
clustering,
superpixels,
graph cuts,
active contours
(snakes and
level sets),
maximally-stable
extremal
regions, SIFT,
SURF ...

~~Digital Image~~

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~~Processing Using
MATLAB 3rd
edition: R. C
Using Matlab~~

DIP (Digital
image
processing) is
the use of
computer
algorithms to
create, process,
communicate and
display digital
images. As

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MATLAB is a high-performance language for technical computing with powerful commands and syntax, it is widely used for the DIP.

~~DIP using~~

~~MATLAB: Digital~~

~~Image Processing~~

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~~Image Beginners~~

~~Processing~~
Digital Image
Processing Using
Matlab 13 Bit
Planes •

Greyscale images
can be
transformed into
a sequence of
binary images by
breaking them up
into their bit-
planes. • We

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consider the
grey value of
each pixel of an
8-bit image as
an 8-bit binary
word.

~~Digital Image
Processing Using
Matlab - UMD~~
Digital Signal
and Image
Processing using
MATLAB ...

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and image
processing using
Matlab / Gérard
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Maurice Charbit.
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2 ISBN-10:

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1-905209-13-4 1.
Signal processing--Digital
techniques--Data
processing.

~~Digital Signal
and Image
Processing Using
MATLAB~~

Digital Image
Processing Using
Matlab Projects
is the best way

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to implement DIP projects due to Matlab's advanced functionality and toolbox support. In general, application areas in Image processing are classified based in two ways i.e., human

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visual

perception-based
and autonomous
machine

perception-based
applications.

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The 3rd edition
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MATLAB (DIPUM3E) has just been published, at long last. The new edition includes extensive new coverage of image transforms, spectral color models, geometric

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transformations,
clustering,
superpixels,
graph cuts,
active contours,
maximally-stable
extremal
regions, SURF
and similar
feature
detection, and
deep learning
networks.

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Image
Processing
Using Matlab

Digital Image Processing has been the leading textbook in its field for more than 20 years. As was the case with the 1977 and 1987 editions by

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Gonzalez and Wintz, and the 1992 edition by Gonzalez and Woods, the present edition was prepared with students and instructors in mind. The material is timely, highly readable, and illustrated with

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Image Processing
Using Matlab

numerous
examples of
practical
significance.
All mainstream
areas of image
processing are
covered,
including a
totally revised
introduction and
discussion of
image
fundamentals,

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image
enhancement in
the spatial and
frequency
domains,
restoration,
color image
processing,
wavelets, image
compression,
morphology,
segmentation,
and image
description.

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Coverage

concludes with a discussion of the fundamentals of object recognition.

Although the book is

completely self-contained, a Companion

Website (see inside front cover) provides

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additional support in the form of review material, answers to selected problems, laboratory project suggestions. and a score of other features. A supplementary instructor's

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Image is available to instructors who have adopted the book for classroom use.

New Features

*New chapters on wavelets, image morphology, and color image

UP-TO-DATE,
TECHNICALLY

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ACCURATE
COVERAGE OF
ESSENTIAL TOPICS
IN IMAGE AND
VIDEO PROCESSING

This is the
first book to
combine image
and video
processing with
a practical
MATLAB®-oriented
approach in
order to

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demonstrate the most important image and video techniques and algorithms.

Utilizing minimal math, the contents are presented in a clear, objective manner, emphasizing and encouraging experimentation.

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The book has been organized into two parts. Part I: Image Processing begins with an overview of the field, then introduces the fundamental concepts, notation, and terminology associated with

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image
representation
and basic image
processing
operations.

Next, it
discusses
MATLAB® and its
Image Processing
Toolbox with the
start of a
series of
chapters with
hands-on

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activities and
step-by-step
tutorials. These
chapters cover

image

acquisition and
digitization;

arithmetic,

logic, and

geometric

operations;

point-based,

histogram-based,

and neighborhood-

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based image
enhancement
techniques; the
Fourier

Transform and
relevant
frequency-domain
image filtering
techniques;
image
restoration;
mathematical
morphology; edge
detection

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techniques;

image

segmentation;

image

compression and

coding; and

feature

extraction and

representation.

Part II: Video

Processing

presents the

main concepts

and terminology

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associated with analog video signals and systems, as well as digital video formats and standards. It then describes the technically involved problem of standards conversion, discusses motion estimation and

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compensation techniques, shows how video sequences can be filtered, and concludes with an example of a solution to object detection and tracking in video sequences using MATLAB®. Extra features of this book

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include: More than 30 MATLAB® tutorials, which consist of step-by-step guides to exploring image and video processing techniques using MATLAB® Chapters supported by figures, examples, illustrative

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problems, and
exercises Useful
websites and an
extensive list
of

bibliographical
references This
accessible text
is ideal for
upper-level
undergraduate
and graduate
students in
digital image

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Image and video
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courses, as well
as for
engineers,
researchers,
software
developers,
practitioners,
and anyone who
wishes to learn
about these
increasingly
popular topics

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on their own.

Processing

This is an introductory to

intermediate

level text on

the science of

image

processing,

which employs

the Matlab

programming

language to

illustrate some

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of the elementary, key concepts in modern image processing and pattern recognition. The approach taken is essentially practical and the book offers a framework within which the concepts can be

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understood by a series of well chosen examples, exercises and computer experiments, drawing on specific examples from within science, medicine and engineering. Clearly divided into eleven

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distinct
chapters, the
book begins with
a fast-start
introduction to
image processing
to enhance the
accessibility of
later topics.
Subsequent
chapters offer
increasingly
advanced
discussion of

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topics involving more challenging concepts, with the final

chapter looking at the

application of automated image classification (with Matlab examples) .

Matlab is frequently used in the book as a

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tool for
demonstrations,
conducting
experiments and
for solving
problems, as it
is both ideally
suited to this
role and is
widely
available. Prior
experience of
Matlab is not
required and

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further
exercises,
examples,
instructor
resources and
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all files
corresponding to
the examples and
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the book itself.

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Includes
numerous
examples, graded
exercises and
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experiments to
support both
students and
instructors
alike.

A Course on
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MATLAB(R)

describes the principles and techniques of image processing using MATLAB(R). Every chapter is accompanied by a collection of exercises and programming assignments, the book is augmented with

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supplementary
MATLAB code, and
hints and
solutions to
problems are
also provided.

Avoiding heavy
mathematics and
lengthy
programming
details, Digital
Image
Processing: An

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Algorithmic
Approach with
MATLAB® presents
an easy
methodology for
learning the
fundamentals of
image
processing. The
book applies the
algorithms using
MATLAB®, without
bogging down
students with

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syntactical and debugging issues. One chapter can typically be completed per week, with each chapter divided into three sections. The first section presents theoretical topics in a very

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simple and basic style with generic language and mathematics.

The second section explains the theoretical concepts using flowcharts to streamline the concepts and to form a foundation for students to code

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in any programming language. The final section supplies MATLAB codes for reproducing the figures presented in the chapter. Programming-based exercises at the end of each chapter

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facilitate the learning of underlying concepts through practice. This textbook equips undergraduate students in computer engineering and science with an essential understanding of digital image

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processing. It will also help them comprehend more advanced topics and sophisticated mathematical material in later courses. A color insert is included in the text while various instructor

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resources are available on the author's website.

Drmann

This book offers a comprehensive introduction to advanced methods for image and video analysis and processing. It covers deraining,

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dehazing,
inpainting,
fusion,
watermarking and
stitching. It
describes
techniques for
face and lip
recognition,
facial
expression
recognition, lip
reading in
videos, moving

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object tracking,
dynamic scene
classification,
among others.

The book
combines the
latest machine
learning methods
with computer
vision
applications,
covering topics
such as event
recognition

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Image on deep learning, dynamic scene classification based on topic model, person re-identification based on metric learning and behavior analysis. It also offers a systematic introduction to

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image evaluation
criteria showing
how to use them
in different
experimental
contexts. The
book offers an
example-based
practical guide
to researchers,
professionals
and graduate
students dealing
with advanced

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problems in
image analysis
and computer
vision.

Drmann

Digital image
processing and
analysis is a
field that
continues to
experience rapid
growth, with
applications in
many facets of

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our lives. Areas such as medicine, agriculture, manufacturing, transportation, communication systems, and space exploration are just a few of the application areas. This book takes an

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engineering
approach to
image processing
and analysis,
including more
examples and
images
throughout the
text than the
previous
edition. It
provides more
material for
illustrating the

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concepts, along with new PowerPoint slides. The application development has been expanded and updated, and the related chapter provides step-by-step tutorial examples for this type of

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development. The new edition also includes supplementary exercises, as well as MATLAB-based exercises, to aid both the reader and student in development of their skills.

Is an

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Introduction to digital image processing from an elementary perspective. The book covers topics that can be introduced with simple mathematics so students can learn the concepts without getting

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overwhelmed by
mathematical
detail.

Using Matlab

This book
provides a
comprehensive
study in digital
image
interpolation
with
theoretical,
analytical and
Matlab®

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implementation.

It includes all historically and practically

important

interpolation algorithms,

accompanied with Matlab® source code on a

website, which will assist

readers to learn and understand

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the implementation details of each presented

interpolation algorithm.

Furthermore, sections in fundamental signal processing theories and image quality models are also

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included. The authors intend for the book to help readers develop a thorough consideration of the design of image interpolation algorithms and applications for their future research in the

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field of digital
image
processing.

Introduces a
wide range of
traditional and
advanced image
interpolation
methods
concisely and
provides
thorough
treatment of
theoretical

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foundations
Discusses in
detail the
assumptions and
limitations of
presented
algorithms
Investigates a
variety of
interpolation
and
implementation
methods
including

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transform
domain, edge-
directed,
wavelet and
scale-space, and
fractal based
methods Features
simulation
results for
comparative
analysis,
summaries and
computational
and analytical

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exercises at the
end of each
chapter Digital
Image

Interpolation in
Matlab® is an
excellent guide
for researchers
and engineers
working in
digital imaging
and digital
video
technologies.

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Graduate
students
studying digital
image processing
will also
benefit from
this practical
reference text.

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