

Read Online Image
Classification Based On Image
Text Relationship
Image Classification
Based On Image Text
Relationship

Soft Computing Based Medical
Image Analysis presents the

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foremost techniques of soft computing in medical image analysis and processing. It includes image enhancement, segmentation, classification-based soft computing, and their application in diagnostic imaging, as well as an extensive

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background for the development of intelligent systems based on soft computing used in medical image analysis and processing. The book introduces the theory and concepts of digital image analysis and processing based on soft computing

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with real-world medical imaging applications. Comparative studies for soft computing based medical imaging techniques and traditional approaches in medicine are addressed, providing flexible and sophisticated application-oriented

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solutions. Covers numerous soft computing approaches, including fuzzy logic, neural networks, evolutionary computing, rough sets and Swarm intelligence Presents transverse research in soft computing formation from various

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engineering and industrial sectors in
the medical domain Highlights
challenges and the future scope for
soft computing based medical
analysis and processing techniques
"Details the latest image processing
algorithms and imaging systems for

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image recognition with diverse applications to the military; the transportation, aerospace, information security, and biomedical industries; radar systems; and image tracking systems."

This book constitutes the refereed

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proceedings of the 6th International Conference on Similarity Search and Applications, SISAP 2013, held in A Coruña, Spain, in October 2013. The 19 full papers, 6 short papers and 2 demo papers, presented were carefully reviewed and selected

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from 44 submissions. The papers are organized in topical sections on new scenarios and approaches; improving similarity search methods and techniques; metrics and evaluation; applications and specific domains; and implementation and

Read Online Image Classification Based On Image Text Relationship engineering solutions.

Phishing Detection Using Content-Based Image Classification is an invaluable resource for any deep learning and cybersecurity professional and scholar trying to solve various cybersecurity tasks

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using new age technologies like Deep Learning and Computer Vision. With various rule-based phishing detection techniques at play which can be bypassed by phishers, this book provides a step-by-step approach to solve this

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problem using Computer Vision and Deep Learning techniques with significant accuracy. The book offers comprehensive coverage of the most essential topics, including: Programmatically reading and manipulating image data Extracting

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relevant features from images

Building statistical models using
image features Using state-of-the-art

Deep Learning models for feature
extraction Build a robust phishing

detection tool even with less data

Dimensionality reduction techniques

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Class imbalance treatment Feature Fusion techniques Building performance metrics for multi-class classification task Another unique aspect of this book is it comes with a completely reproducible code base developed by the author and shared

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via python notebooks for quick launch and running capabilities. They can be leveraged for further enhancing the provided models using new advancement in the field of computer vision and more advanced algorithms.

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Robot Intelligence Technology and
Applications 3

Beginning Machine Learning for
Apple and IOS

Automation Using the IoT and
Machine Learning

Making AI Less Susceptible to

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Adversarial Trickery

Models, Learning, and Inference
Handbook of Research on Disease
Prediction Through Data Analytics
and Machine Learning
Genetic Programming for Image
Classification

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A modern treatment focusing on learning and inference, with minimal prerequisites, real-world examples and implementable algorithms.

By applying data analytics techniques and machine learning algorithms to predict disease,

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medical practitioners can more accurately diagnose and treat patients. However, researchers face problems in identifying suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as

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seeking different ways to build and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease

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**predictions through the
identification of symptoms and
information retrieval from images
such as MRIs, ECGs, EEGs, etc.
Highlighting a wide range of
topics including clinical decision
support systems, biomedical
image analysis, and prediction**

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models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts, hospital administrators, researchers, academicians, and graduate and post-graduate

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students.

**This book constitutes the
refereed proceedings of seven
workshops held at the 18th
International Conference on
Image Analysis and Processing,
ICIAP 2015, in Genoa, Italy, in
September 2015: International**

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**Workshop on Recent Advances in
Digital Security: Biometrics and
Forensics, BioFor 2015;
International Workshop on Color
in Texture and Material
Recognition, CTMR 2015;
International Workshop on
Medical Imaging in**

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Rheumatology: Advanced applications for the analysis of inflammation and damage in the rheumatoid Joint, RHEUMA 2015; International Workshop on Image-Based Smart City Application, ISCA 2015; International Workshop on Multimedia

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**Assisted Dietary Management,
MADiMa 2015; International
Workshop on Scene Background
Modeling and initialization, SBMI
2015; and International
Workshop on Image and Video
Processing for Quality of
Multimedia Experience, QoEM**

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2015.

Deep Learning for Chest Radiographs enumerates different strategies implemented by the authors for designing an efficient convolution neural network-based computer-aided classification (CAC) system for

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binary classification of chest radiographs into "Normal" and "Pneumonia." Pneumonia is an infectious disease mostly caused by a bacteria or a virus. The prime targets of this infectious disease are children below the age of 5 and adults above the age

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of 65, mostly due to their poor immunity and lower rates of recovery. Globally, pneumonia has prevalent footprints and kills more children as compared to any other immunity-based disease, causing up to 15% of child deaths per year, especially in developing

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countries. Out of all the available imaging modalities, such as computed tomography, radiography or X-ray, magnetic resonance imaging, ultrasound, and so on, chest radiographs are most widely used for differential diagnosis between Normal and

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Pneumonia. In the CAC system designs implemented in this book, a total of 200 chest radiograph images consisting of 100 Normal images and 100 Pneumonia images have been used. These chest radiographs are augmented using geometric

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transformations, such as rotation, translation, and flipping, to increase the size of the dataset for efficient training of the Convolutional Neural Networks (CNNs). A total of 12 experiments were conducted for the binary classification of chest

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**radiographs into Normal and
Pneumonia. It also includes in-
depth implementation strategies
of exhaustive experimentation
carried out using transfer
learning-based approaches with
decision fusion, deep feature
extraction, feature selection,**

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feature dimensionality reduction, and machine learning-based classifiers for implementation of end-to-end CNN-based CAC system designs, lightweight CNN-based CAC system designs, and hybrid CAC system designs for chest radiographs. This book is a

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**valuable resource for
academicians, researchers,
clinicians, postgraduate and
graduate students in medical
imaging, CAC, computer-aided
diagnosis, computer science and
engineering, electrical and
electronics engineering,**

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**biomedical engineering,
bioinformatics, bioengineering,
and professionals from the IT
industry. Provides insights into
the theory, algorithms,
implementation, and application
of deep-learning techniques for
medical images such as transfer**

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learning using pretrained CNNs, series networks, directed acyclic graph networks, lightweight CNN models, deep feature extraction, and conventional machine learning approaches for feature selection, feature dimensionality reduction, and classification

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**using support vector machine,
neuro-fuzzy classifiers Covers the
various augmentation techniques
that can be used with medical
images and the CNN-based CAC
system designs for binary
classification of medical images
focusing on chest radiographs**

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Investigates the development of an optimal CAC system design with deep feature extraction and classification of chest radiographs by comparing the performance of 12 different CAC system designs

Classification Techniques for

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**Medical Image Analysis and
Computer Aided Diagnosis
Image Classification Using
Python and Techniques of
Computer Vision and Machine
Learning
Computer Vision Methods for
Fast Image Classification and**

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Retrieval

**Spatial Concepts for Knowledge-
Driven Remote Sensing
Applications
Multimodal Scene Understanding
28th International Conference on
Artificial Neural Networks,
Munich, Germany, September**

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**17-19, 2019, Proceedings, Part
III**

Medical Imaging

***This book implemented six
different algorithms to classify
images with the prediction
accuracy of the testing data as***

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the primary criterion (the higher the better) and the time consumption as the secondary one (the shorter the better). The accuracies varied between about 30% and 90%, while the time consumptions varied

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from several seconds to more than one hour. Considering both of the criteria, the Pre-Trained AlexNet Features Representation plus a Classifier, such as the k-Nearest Neighbors (KNN) and

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the Support Vector Machines (SVM), was concluded as the best algorithm. The six algorithms are: Tiny Images Representation + Classifiers; HOG (Histogram of Oriented Gradients) Features

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***Representation + Classifiers;
Bag of SIFT (Scale Invariant
Feature Transform) Features
Representation + Classifiers;
Training a CNN (Convolutional
Neural Network) from scratch;
Fine Tuning a Pre-Trained***

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***Deep Network (AlexNet); and
Pre-Trained Deep Network
(AlexNet) Features
Representation +
Classifiers. The codes were
written with Python in Jupyter
Notebook, and they could be***

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executed on both CPUs and G

PU.s.????????????????????????????????

????????????????????????????????????

????????????????????????30??90??????

????????????????????????????????????

????? AlexNet ??????????????????k??

???KNN?????????SVM????????????

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????????????????????+???????????????

??HOG??????+????????????????SIF

T????????+????????????????CNN

????????????????AlexNet???????????

????AlexNet??????+???????????????

Python ?????? *Jupyter*

Notebook ?????????????????? *CPU*

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? GPU ??

Step-by-step tutorials on deep learning neural networks for computer vision in python with Keras.

This book offers an introduction to remotely

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sensed image processing and classification in R using machine learning algorithms. It also provides a concise and practical reference tutorial, which equips readers to immediately start using the

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***software platform and R
packages for image
processing and classification.
This book is divided into five
chapters. Chapter 1 introduces
remote sensing digital image
processing in R, while chapter***

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2 covers pre-processing.

Chapter 3 focuses on image transformation, and chapter 4 addresses image classification. Lastly, chapter 5 deals with improving image classification. R is

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advantageous in that it is open source software, available free of charge and includes several useful features that are not available in commercial software packages. This book benefits all undergraduate and

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***graduate students,
researchers, university
teachers and other remote-
sensing practitioners
interested in the practical
implementation of remote
sensing in R.***

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This book implemented six different algorithms to classify images with prediction accuracy as the primary criterion and time consumption as the secondary one. The accuracies varied

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***between about 30% and 90%,
while the time consumptions
varied from several seconds to
more than one hour.***

***Considering both criteria, the
Pre-Trained AlexNet Features
Representation plus a***

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Classifier, such as the k-Nearest Neighbors (KNN) and the Support Vector Machines (SVM), was concluded as the best algorithm.

ICIAP 2015 International Workshops, BioFor, CTMR,

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***RHEUMA, ISCA, MADiMa,
SBMI, and QoEM, Genoa, Italy,
September 7-8, 2015,
Proceedings
Soft Computing Based Medical
Image Analysis
Deep Learning for Remote***

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***Sensing Images with Open
Source Software
Algorithms, Systems, and
Applications
Content-based Image
Classification
Deep Learning and Parallel***

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***Computing Environment for
Bioengineering Systems
New Trends in Image Analysis
and Processing -- ICIAP 2015
Workshops
Computer Vision and Image
Processing contains review papers***

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from the Computer Vision, Graphics, and Image Processing volume covering a large variety of vision-related topics. Organized into five parts encompassing 26 chapters, the book covers topics on image-level operations and architectures; image representation

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and recognition; and three-dimensional imaging. The introductory part of this book is concerned with the end-to-end performance of image gathering and processing for high-resolution edge detection. It proposes methods using mathematical

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morphology to provide a complete edge detection process that may be used with any slope approximating operator. This part also discusses the automatic control of low-level robot vision, presents an image partitioning method suited for parallel implementation, and

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describes invariant architectures for low-level vision. The subsequent two sections present significant topics on image representation and recognition. Topics covered include the use of the primitives chain code; the geometric properties of the generalized cone; efficient

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rendering and structural-statistical character recognition algorithms; multi-level thresholding for image segmentation; knowledge-based object recognition system; and shape decomposition method based on perceptual structure. The fourth part describes a rule-based

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expert system for recovering three-dimensional shape and orientation. A procedure of intensity-guided range sensing to gain insights on the concept of cooperative-and-iterative strategy is also presented in this part. The concluding part contains supplementary texts on

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***texture segmentation using
topographic labels and an improved
algorithm for labeling connected
components in a binary image.
Additional algorithms for three-
dimensional motion parameter
determination and surface tracking
in three-dimensional binary images***

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are also provided.

***The seven-volume set comprising
LNCS volumes 7572-7578
constitutes the refereed
proceedings of the 12th European
Conference on Computer Vision,
ECCV 2012, held in Florence, Italy,
in October 2012. The 408 revised***

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papers presented were carefully reviewed and selected from 1437 submissions. The papers are organized in topical sections on geometry, 2D and 3D shapes, 3D reconstruction, visual recognition and classification, visual features and image matching, visual

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*monitoring: action and activities,
models, optimisation, learning,
visual tracking and image
registration, photometry: lighting
and colour, and image
segmentation.*

*Image Analysis, Classification and
Change Detection in Remote*

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Sensing: With Algorithms for Python, Fourth Edition, is focused on the development and implementation of statistically motivated, data-driven techniques for digital image analysis of remotely sensed imagery and it features a tight interweaving of

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statistical and machine learning theory of algorithms with computer codes. It develops statistical methods for the analysis of optical/infrared and synthetic aperture radar (SAR) imagery, including wavelet transformations, kernel methods for nonlinear

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classification, as well as an introduction to deep learning in the context of feed forward neural networks. New in the Fourth Edition: An in-depth treatment of a recent sequential change detection algorithm for polarimetric SAR image time series. The

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accompanying software consists of Python (open source) versions of all of the main image analysis algorithms. Presents easy, platform-independent software installation methods (Docker containerization). Utilizes freely accessible imagery via the Google Earth Engine and

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provides many examples of cloud programming (Google Earth Engine API). Examines deep learning examples including TensorFlow and a sound introduction to neural networks, Based on the success and the reputation of the previous editions and compared to other

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textbooks in the market, Professor Canty's fourth edition differs in the depth and sophistication of the material treated as well as in its consistent use of computer codes to illustrate the methods and algorithms discussed. It is self-contained and illustrated with many

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programming examples, all of which can be conveniently run in a web browser. Each chapter concludes with exercises complementing or extending the material in the text.

This book brings together a collection of invited

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

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passed through a blind peer-review process 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)

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community circa 2000, with the advent of the first commercial software for what was then termed 'obje- oriented image analysis'. However, it is widely agreed that OBIA builds on older segmentation, edge-detection and classification concepts that have been used in

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remote sensing image analysis for several decades. Nevertheless, its emergence has provided a new critical bridge to spatial concepts applied in multiscale landscape analysis, Geographic Information Systems (GIS) and the synergy between image-objects and their

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***radiometric characteristics and
analyses in Earth Observation data
(EO).***

***6th International Conference, SISAP
2013, A Coruña, Spain, October 2-4,
2013, Proceedings***

***Results from the 3rd International
Conference on Robot Intelligence***

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***Technology and Applications
Computer Vision – ECCV 2012
Artificial Neural Networks and
Machine Learning – ICANN 2019:
Image Processing
Deep Learning for Image
Processing Applications
Techniques for Image Processing***

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***and Classifications in Remote
Sensing***

***Deep Learning for Chest
Radiographs***

*This reference text
introduces the classical
probabilistic model, deep
learning, and big data*

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*techniques for improving
medical imaging and
detecting various diseases.
The text addresses a wide
variety of application areas
in medical imaging where
deep learning techniques
provide solutions with*

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*lesser human intervention
and reduced time. It
comprehensively covers
important machine learning
for signal analysis, deep
learning techniques for
cancer detection, diabetic
cases, skin image analysis,*

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*Alzheimer's disease
detection, coronary disease
detection, medical image
forensic, fetal anomaly
detection, and plant
phytology. The text will
serve as a useful text for
graduate students and*

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academic researchers in the fields of electronics engineering, computer science, biomedical engineering, and electrical engineering.

This book covers all aspects of robot intelligence from

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*perception at sensor level
and reasoning at cognitive
level to behavior planning
at execution level for each
low level segment of the
machine. It also presents
the technologies for
cognitive reasoning, social*

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*interaction with humans,
behavior generation, ability
to cooperate with other
robots, ambience awareness,
and an artificial genome
that can be passed on to
other robots. These
technologies are to*

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materialize cognitive intelligence, social intelligence, behavioral intelligence, collective intelligence, ambient intelligence and genetic intelligence. The book aims at serving researchers and

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practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications, based on a collection of papers presented at the 3rd International Conference on

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*Robot Intelligence
Technology and Applications
(RiTA), held in Beijing,
China, November 6 - 8, 2014.
For better readability, this
edition has the total 74
papers grouped into 3
chapters: Chapter I:*

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*Ambient, Behavioral,
Cognitive, Collective, and
Social Robot Intelligence,
Chapter II: Computational
Intelligence and Intelligent
Design for Advanced
Robotics, Chapter III:
Applications of Robot*

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Intelligence Technology,
where individual chapters,
edited respectively by Peter
Sincak, Hyun Myung, Jun Jo
along with Weimin Yang and
Jong-Hwan Kim, begin with a
brief introduction written
by the respective chapter

Read Online Image Classification Based On Image Text Relationship editors.

*Deep Learning and Parallel
Computing Environment for
Bioengineering Systems
delivers a significant forum
for the technical
advancement of deep learning
in parallel computing*

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*environment across bio-
engineering diversified
domains and its
applications. Pursuing an
interdisciplinary approach,
it focuses on methods used
to identify and acquire
valid, potentially useful*

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*knowledge sources. Managing
the gathered knowledge and
applying it to multiple
domains including health
care, social networks,
mining, recommendation
systems, image processing,
pattern recognition and*

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predictions using deep learning paradigms is the major strength of this book. This book integrates the core ideas of deep learning and its applications in bio engineering application domains, to be accessible to

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*all scholars and
academicians. The proposed
techniques and concepts in
this book can be extended in
future to accommodate
changing business
organizations' needs as well
as practitioners' innovative*

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*ideas. Presents novel, in-
depth research contributions
from a
methodological/application
perspective in understanding
the fusion of deep machine
learning paradigms and their
capabilities in solving a*

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*diverse range of problems
Illustrates the state-of-the-
art and recent developments
in the new theories and
applications of deep
learning approaches applied
to parallel computing
environment in*

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*bioengineering systems
Provides concepts and
technologies that are
successfully used in the
implementation of today's
intelligent data-centric
critical systems and multi-
media Cloud-Big data*

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This book offers several new GP approaches to feature learning for image classification. Image classification is an important task in computer vision and machine learning with a wide range of

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applications. Feature learning is a fundamental step in image classification, but it is difficult due to the high variations of images.

Genetic Programming (GP) is an evolutionary computation

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technique that can automatically evolve computer programs to solve any given problem. This is an important research field of GP and image classification. No book has been published in this

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field. This book shows how different techniques, e.g., image operators, ensembles, and surrogate, are proposed and employed to improve the accuracy and/or computational efficiency of GP for image classification.

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The proposed methods are applied to many different image classification tasks, and the effectiveness and interpretability of the learned models will be demonstrated. This book is suitable as a graduate and

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*postgraduate level textbook
in artificial intelligence,
machine learning, computer
vision, and evolutionary
computation.*

*Phishing Detection Using
Content-Based Image
Classification*

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*Deep Learning for Computer
Vision*

*Computer Vision and Image
Processing*

*Practical Machine Learning
and Image Processing*

Computer Vision

Artificial Intelligence,

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*Image Recognition, and
Machine Learning Techniques
Computer-Aided
Classification*

Multimodal Scene Understanding:
Algorithms, Applications and Deep
Learning presents recent advances
in multi-modal computing, with a

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focus on computer vision and photogrammetry. It provides the latest algorithms and applications that involve combining multiple sources of information and describes the role and approaches of multi-sensory data and multi-modal deep learning. The book is

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ideal for researchers from the fields of computer vision, remote sensing, robotics, and photogrammetry, thus helping foster interdisciplinary interaction and collaboration between these realms. Researchers collecting and analyzing multi-sensory data collections – for

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example, KITTI benchmark
(stereo+laser) - from different
platforms, such as autonomous
vehicles, surveillance cameras,
UAVs, planes and satellites will find
this book to be very useful.
Contains state-of-the-art
developments on multi-modal

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computing Shines a focus on algorithms and applications
Presents novel deep learning topics on multi-sensor fusion and multi-modal deep learning
A coronavirus pandemic spread throughout the world starting in 2019. This event led to the release

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of X-ray image data used in the diagnosis of COVID-19, the disease caused by the coronavirus. Machine learning techniques based on convolutional neural networks have been developed for image classification, but these models require large amounts of data. Due

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to the ongoing nature of the pandemic, the size of COVID-19 X-ray image datasets is still relatively small. A method of image classification based on transfer learning is explored to leverage the smaller datasets currently available. Based on VGG16, an earlier image

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classification convolutional neural network, the model achieves accurate predictions. An application of Grad-CAM is also explored to aid in interpretation.

Gain insights into image-processing methodologies and algorithms, using machine learning

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and neural networks in Python. This book begins with the environment setup, understanding basic image-processing terminology, and exploring Python concepts that will be useful for implementing the algorithms discussed in the book. You will then cover all the core

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image processing algorithms in detail before moving onto the biggest computer vision library: OpenCV. You'll see the OpenCV algorithms and how to use them for image processing. The next section looks at advanced machine learning and deep learning methods for

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image processing and classification. You'll work with concepts such as pulse coupled neural networks, AdaBoost, XG boost, and convolutional neural networks for image-specific applications. Later you'll explore how models are made in real time

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and then deployed using various DevOps tools. All the concepts in Practical Machine Learning and Image Processing are explained using real-life scenarios. After reading this book you will be able to apply image processing techniques and make machine learning models

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for customized application. What
You Will Learn Discover image-
processing algorithms and their
applications using Python Explore
image processing using the
OpenCV library Use TensorFlow,
scikit-learn, NumPy, and other
libraries Work with machine

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learning and deep learning algorithms for image processing Apply image-processing techniques to five real-time projects Who This Book Is For Data scientists and software developers interested in image processing and computer vision.

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Despite the increasing population (the Food and Agriculture Organization of the United Nations estimates 70% more food will be needed in 2050 than was produced in 2006), issues related to food production have yet to be completely addressed. In recent

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years, Internet of Things technology has begun to be used to address different industrial and technical challenges to meet this growing need. These Agro-IoT tools boost productivity and minimize the pitfalls of traditional farming, which is the backbone of the world's

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economy. Aided by the IoT, continuous monitoring of fields provides useful and critical information to farmers, ushering in a new era in farming. The IoT can be used as a tool to combat climate change through greenhouse automation; monitor and manage

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water, soil and crops; increase productivity; control insecticides/pesticides; detect plant diseases; increase the rate of crop sales; cattle monitoring etc.

Agricultural Informatics:

Automation Using the IoT and Machine Learning focuses on all

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these topics, including a few case studies, and they give a clear indication as to why these techniques should now be widely adopted by the agriculture and farming industries.

Deep Learning for Hyperspectral Image Analysis and Classification

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Explainable Image Classification
Based on Positive Gradient
Distance

Trends and Advancements of Image
Processing and its Applications
Content-Based Image Classification
Remote Sensing Image
Classification in R

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Object-Based Image Analysis
Strengthening Deep Neural
Networks

**This book covers the state-of-art
image classification methods for
discrimination of earth objects from
remote sensing satellite data with
an emphasis on fuzzy machine**

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learning and deep learning algorithms. Both types of algorithms are described in such details that these can be implemented directly for thematic mapping of multiple-class or specific-class landcover from multispectral optical remote

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sensing data. These algorithms along with multi-date, multi-sensor remote sensing are capable to monitor specific stage (for e.g., phenology of growing crop) of a particular class also included. With these capabilities fuzzy machine learning algorithms have strong

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applications in areas like crop insurance, forest fire mapping, stubble burning, post disaster damage mapping etc. It also provides details about the temporal indices database using proposed Class Based Sensor Independent (CBSI) approach supported by

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practical examples. As well, this book addresses other related algorithms based on distance, kernel based as well as spatial information through Markov Random Field (MRF)/Local convolution methods to handle mixed pixels, non-linearity and

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noisy pixels. Further, this book covers about techniques for quantiative assessment of soft classified fraction outputs from soft classification and supported by in-house developed tool called sub-pixel multi-spectral image classifier (SMIC). It is aimed at graduate,

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**postgraduate, research scholars
and working professionals of
different branches such as
Geoinformation sciences,
Geography, Electrical, Electronics
and Computer Sciences etc.,
working in the fields of earth
observation and satellite image**

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processing. Learning algorithms discussed in this book may also be useful in other related fields, for example, in medical imaging.

**Overall, this book aims to:
exclusive focus on using large
range of fuzzy classification
algorithms for remote sensing**

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**images; discuss ANN, CNN, RNN,
and hybrid learning classifiers
application on remote sensing
images; describe sub-pixel multi-
spectral image classifier tool (SMIC)
to support discussed fuzzy and
learning algorithms; explain how to
assess soft classified outputs as**

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fraction images using fuzzy error matrix (FERM) and its advance versions with FERM tool, Entropy, Correlation Coefficient, Root Mean Square Error and Receiver Operating Characteristic (ROC) methods and; combines explanation of the algorithms with

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case studies and practical applications.

Classification Techniques for Medical Image Analysis and Computer Aided Diagnosis covers the most current advances on how to apply classification techniques to a wide variety of clinical

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applications that are appropriate for researchers and biomedical engineers in the areas of machine learning, deep learning, data analysis, data management and computer-aided diagnosis (CAD) systems design. The book covers several complex image

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classification problems using pattern recognition methods, including Artificial Neural Networks (ANN), Support Vector Machines (SVM), Bayesian Networks (BN) and deep learning. Further, numerous data mining techniques are discussed, as they have proven to

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be good classifiers for medical images. Examines the methodology of classification of medical images that covers the taxonomy of both supervised and unsupervised models, algorithms, applications and challenges Discusses recent advances in Artificial Neural

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Networks, machine learning, and deep learning in clinical applications Introduces several techniques for medical image processing and analysis for CAD systems design

This book focuses on deep learning-based methods for hyperspectral

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image (HSI) analysis. Unsupervised spectral-spatial adaptive band-noise factor-based formulation is devised for HSI noise detection and band categorization. The method to characterize the bands along with the noise estimation of HSIs will benefit subsequent remote sensing

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techniques significantly. This book develops on two fronts: On the one hand, it is aimed at domain professionals who want to have an updated overview of how hyperspectral acquisition techniques can combine with deep learning architectures to solve

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specific tasks in different application fields. On the other hand, the authors want to target the machine learning and computer vision experts by giving them a picture of how deep learning technologies are applied to hyperspectral data from a

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multidisciplinary perspective. The presence of these two viewpoints and the inclusion of application fields of remote sensing by deep learning are the original contributions of this review, which also highlights some potentialities and critical issues related to the

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observed development trends.

Deep learning and image processing are two areas of great interest to academics and industry professionals alike. The areas of application of these two disciplines range widely, encompassing fields such as medicine, robotics, and

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security and surveillance. The aim of this book, 'Deep Learning for Image Processing Applications', is to offer concepts from these two areas in the same platform, and the book brings together the shared ideas of professionals from academia and research about

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problems and solutions relating to the multifaceted aspects of the two disciplines. The first chapter provides an introduction to deep learning, and serves as the basis for much of what follows in the subsequent chapters, which cover subjects including: the application

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of deep neural networks for image classification; hand gesture recognition in robotics; deep learning techniques for image retrieval; disease detection using deep learning techniques; and the comparative analysis of deep data and big data. The book will be of

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**interest to all those whose work
involves the use of deep learning
and image processing techniques.**

Image Classification

**Advances in Deep Learning for
Medical Image Analysis**

A Transfer Learning Approach

Image Recognition and

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Classification
For Facial Recognition, Object
Detection, and Pattern Recognition
Using Python
Image Analysis, Classification and
Change Detection in Remote
Sensing
Fuzzy Machine Learning Algorithms

Read Online Image Classification Based On Image Text Relationship **for Remote Sensing Image Classification**

In today's world, deep learning source codes and a plethora of open access geospatial images are readily available and easily accessible.

However, most people are missing the educational tools to make use of

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this resource. Deep Learning for Remote Sensing Images with Open Source Software is the first practical book to introduce deep learning techniques using free open source tools for processing real world remote sensing images. The approaches detailed in this book are generic and

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can be adapted to suit many different applications for remote sensing image processing, including landcover mapping, forestry, urban studies, disaster mapping, image restoration, etc. Written with practitioners and students in mind, this book helps link together the

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theory and practical use of existing tools and data to apply deep learning techniques on remote sensing images and data. Specific Features of this Book: The first book that explains how to apply deep learning techniques to public, free available data (Spot-7 and Sentinel-2 images,

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OpenStreetMap vector data), using open source software (QGIS, Orfeo ToolBox, TensorFlow) Presents approaches suited for real world images and data targeting large scale processing and GIS applications Introduces state of the art deep learning architecture families that

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can be applied to remote sensing world, mainly for landcover mapping, but also for generic approaches (e.g. image restoration) Suited for deep learning beginners and readers with some GIS knowledge. No coding knowledge is required to learn practical skills. Includes deep learning

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techniques through many step by step remote sensing data processing exercises.

The proceedings set LNCS 11727, 11728, 11729, 11730, and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks, ICANN

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2019, held in Munich, Germany, in September 2019. The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions. They were organized in 5 volumes focusing on theoretical neural computation; deep

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learning; image processing; text and time series; and workshop and special sessions.

The book presents selected methods for accelerating image retrieval and classification in large collections of images using what are referred to as 'hand-crafted features.' It introduces

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readers to novel rapid image description methods based on local and global features, as well as several techniques for comparing images. Developing content-based image comparison, retrieval and classification methods that simulate human visual perception is an

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arduous and complex process. The book's main focus is on the application of these methods in a relational database context. The methods presented are suitable for both general-type and medical images. Offering a valuable textbook for upper-level undergraduate or

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graduate-level courses on computer science or engineering, as well as a guide for computer vision researchers, the book focuses on techniques that work under real-world large-dataset conditions. Whether you're a software engineer aspiring to enter the world of deep

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learning, a veteran data scientist, or a hobbyist with a simple dream of making the next viral AI app, you might have wondered where to begin. This step-by-step guide teaches you how to build practical deep learning applications for the cloud, mobile, browsers, and edge devices using a

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hands-on approach. Relying on years of industry experience transforming deep learning research into award-winning applications, Anirudh Koul, Siddha Ganju, and Meher Kasam guide you through the process of converting an idea into something that people in the real world can use.

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Train, tune, and deploy computer vision models with Keras, TensorFlow, Core ML, and TensorFlow Lite
Develop AI for a range of devices including Raspberry Pi, Jetson Nano, and Google Coral Explore fun projects, from Silicon Valley's Not Hotdog app to 40+ industry case

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studies Simulate an autonomous car in a video game environment and build a miniature version with reinforcement learning Use transfer learning to train models in minutes Discover 50+ practical tips for maximizing model accuracy and speed, debugging, and scaling to

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millions of users

Agricultural Informatics

Real-World AI & Computer-Vision

Projects Using Python, Keras &

TensorFlow

Practical Deep Learning for Cloud,

Mobile, and Edge

Efficient Machine Learning Using

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Robust Feature Extraction Techniques
Similarity Search and Applications
COVID-19 X-ray Image Classification
An Automated Approach to Feature
Learning

**Content-Based Image
Classification: Efficient**

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**Machine Learning Using
Robust Feature
Extraction Techniques is
a comprehensive guide to
research with invaluable
image data. Social
Science Research**

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Network has revealed that 65% of people are visual learners. Research data provided by Hyerle (2000) has clearly shown 90% of information in the human brain is visual.

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Thus, it is no wonder that visual information processing in the brain is 60,000 times faster than text-based information (3M Corporation, 2001). Recently, we have

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witnessed a significant surge in conversing with images due to the popularity of social networking platforms. The other reason for embracing usage of

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image data is the mass availability of high-resolution cellphone cameras. Wide usage of image data in diversified application areas including medical

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**science, media, sports,
remote sensing, and so
on, has spurred the need
for further research in
optimizing archival,
maintenance, and
retrieval of appropriate**

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image content to leverage data-driven decision-making. This book demonstrates several techniques of image processing to represent image data in a

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**desired format for
information
identification. It
discusses the application
of machine learning and
deep learning for
identifying and**

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**categorizing appropriate
image data helpful in
designing automated
decision support systems.
The book offers
comprehensive coverage
of the most essential**

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**topics, including: Image
feature extraction with
novel handcrafted
techniques (traditional
feature extraction) Image
feature extraction with
automated techniques**

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**(representation learning
with CNNs) Significance
of fusion-based
approaches in enhancing
classification accuracy
MATLAB® codes for
implementing the**

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**techniques Use of the
Open Access data mining
tool WEKA for multiple
tasks The book is
intended for budding
researchers, technocrats,
engineering students,**

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**and machine
learning/deep learning
enthusiasts who are
willing to start their
computer vision journey
with content-based image
recognition. The readers**

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**will get a clear picture of
the essentials for
transforming the image
data into valuable means
for insight generation.
Readers will learn coding
techniques necessary to**

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**propose novel
mechanisms and
disruptive approaches.
The WEKA guide provided
is beneficial for those
uncomfortable coding for
machine learning**

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algorithms. The WEKA tool assists the learner in implementing machine learning algorithms with the click of a button.

Thus, this book will be a stepping-stone for your

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machine learning journey.

Please visit the author's

website for any further

guidance at

<https://www.rikdas.com/>

As deep neural networks

(DNNs) become

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increasingly common in real-world applications, the potential to deliberately "fool" them with data that wouldn't trick a human presents a new attack vector. This

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**practical book examines
real-world scenarios
where DNNs—the
algorithms intrinsic to
much of AI—are used
daily to process image,
audio, and video data.**

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Author Katy Warr considers attack motivations, the risks posed by this adversarial input, and methods for increasing AI robustness to these attacks. If you're

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**a data scientist
developing DNN
algorithms, a security
architect interested in
how to make AI systems
more resilient to attack,
or someone fascinated by**

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the differences between artificial and biological perception, this book is for you. Delve into DNNs and discover how they could be tricked by adversarial input

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**Investigate methods used
to generate adversarial
input capable of fooling
DNNs Explore real-world
scenarios and model the
adversarial threat
Evaluate neural network**

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**robustness; learn
methods to increase
resilience of AI systems
to adversarial data
Examine some ways in
which AI might become
better at mimicking**

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**human perception in
years to come**

**In this thesis, we explore
a new framework for
image classification with
an emphasis on
generating explainable**

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prediction. Deep neural networks (DNN) have achieved unprecedented accuracy in image classification. However, DNNs are black-box classifiers notoriously

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hard to interpret. In some application areas, the lack of interpretation has prevented practitioners to embrace the machine learning system. On the other hand, easy to

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interpret classification methods, e.g., linear discriminant analysis or distance-based approaches, often fall much behind in accuracy. We hereby propose a

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method to learn the definition of a distance based on commonly used distances for different types of features. The new distance is subject to a so-called positive

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gradient constraint to ensure interpretability. This new method enables us to interpret the importance of different types of features with respect to particular

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image class or even individual images. In addition, the method provides insight into why a prediction decision is made. Comparisons have been made with DNN and

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**other widely used
classification algorithms.
We find that the new
approach is competitive
in performance when the
dataset is of small size.
Learn Machine**

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Learning! Machine learning is one of those topics that can be daunting at first blush. It's not clear where to start, what path someone should take and what

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**APIs to learn in order to
get started teaching
machines how to
learn. This is where
Machine Learning by
Tutorials comes in! In this
book, we'll hold your**

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hand through a number of tutorials, to get you started in the world of machine learning. We'll cover a wide range of popular topics in the field of machine learning,

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**while developing apps
that work on iOS
devices. Who This Book Is
For This book is for the
intermediate iOS
developer who already
knows the basics of iOS**

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**and Swift development,
but wants to understand
how machine learning
works. Topics covered in
Machine Learning by
TutorialsCoreML: Learn
how to add a machine**

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**learning model to your
iOS apps, and how to use
iOS APIs to access
it. Create ML: Learn how
to create your own model
using Apple's Create ML
Tool. Turi Create and**

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Keras: Learn how to tune parameters to improve your machine learning model using more advanced tools. Image Classification: Learn how to apply machine learning

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**models to predict objects
in an image. Convolutional
Networks: Learn
advanced machine
learning techniques for
predicting objects in an
image with Convolutional**

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**Neural Networks
(CNNs). Sequence
Classification: Learn how
you can use recurrent
neural networks (RNNs)
to classify motion from
an iPhone's motion**

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sensor.Text-to-text

Transform: Learn how to use machine learning to convert bodies of text between two languages.By the end of this book, you'll have a

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**firm understanding of
what machine learning is,
what it can and cannot
do, and how you can use
machine learning in your
next app!**

Image Classification,

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**Object Detection, and
Face Recognition in
Python
With Algorithms for
Python, Fourth Edition
12th European
Conference on Computer**

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**Vision, Florence, Italy,
October 7-13, 2012,
Proceedings, Part II
Step-By-step Classifying
Images with Python and
Techniques of Computer
Vision and Machine**

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**Learning (2; Python
Algorithms, Applications
and Deep Learning
Machine Learning by
Tutorials (Second Edition)**

The book discusses varied
topics pertaining to advanced or

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up-to-date techniques in medical imaging using artificial intelligence (AI), image recognition (IR) and machine learning (ML) algorithms/techniques. Further, coverage includes analysis of

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chest radiographs (chest x-rays)
via stacked generalization
models, TB type detection using
slice separation approach, brain
tumor image segmentation via
deep learning, mammogram
mass separation, epileptic

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seizures, breast ultrasound images, knee joint x-ray images, bone fracture detection and labeling, and diabetic retinopathy. It also reviews 3D imaging in biomedical applications and pathological

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medical imaging.

Techniques for Image
Processing and Classifications
in Remote Sensing provides an
introduction to the fundamentals
of computer image processing
and classification (commonly

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called "pattern recognition" in other applications). The book begins with a discussion of digital scanners and imagery, and two key mathematical concepts for image processing and classification—spatial

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filtering and statistical pattern recognition. This is followed by separate chapters on image processing and classification techniques that are widely used in the remote sensing community. The emphasis

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throughout is on techniques that assist in the analysis of images, not particular applications of these techniques. The book also has four appendixes, featuring a bibliography; an introduction to computer binary data

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representation and image data formats; a discussion of interactive image processing; and a selection of exam questions from the Image Processing Laboratory course at the University of Arizona. This

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book is intended for use as either a primary source in an introductory image processing course or as a supplementary text in an intermediate-level remote sensing course. The academic level addressed is

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upper-division undergraduate or beginning graduate, and familiarity with calculus and basic vector and matrix concepts is assumed.