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Proceedings of 2nd
International Conference
on Computer Vision &
Image Processing
Springer Nature

This two volume set (CCIS 1776-1777) constitutes the refereed proceedings of the 7th International Conference on Computer Vision and Image Processing, CVIP 2022, held in Nagpur, India, November 4-6, 2022. The

110 full papers and 11 short papers were carefully reviewed and selected from 307 submissions. Out of 121 papers, 109 papers are included in this book. The topical scope of the two-volume set focuses on

Medical Image Analysis, Image/ Video Processing for Autonomous Vehicles, Activity Detection/ Recognition, Human Computer Interaction, Segmentation and Shape Representation, Motion and Tracking, Image/ Video Scene Understanding, Image/Video Retrieval, Remote Sensing, Hyperspectral Image Processing, Face, Iris, Emotion, Sign Language and Gesture Recognition, etc.
Computers Helping People with Special Needs IGI

Global Autism spectrum disorder (ASD) is known as a neuro-disorder in which a person may face problems in interaction and communication with people, amongst other challenges. As per medical experts, ASD can be diagnosed at any stage or age but is often noticeable within the first two years of life. If caught early enough, therapies and services can be provided at this early stage instead of waiting until it is too late. ASD occurrences appear to

have increased over the last couple of years leading to the need for more research in the field. It is crucial to provide researchers and clinicians with the most up-to-date information on the clinical features, etiopathogenesis, and therapeutic strategies for patients as well as to shed light on the other psychiatric conditions often associated with ASD. In addition, it is equally important to understand how to detect ASD in individuals for accurate diagnosing and

early detection. Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder discusses the early detection and diagnosis of autism spectrum disorder enabled by artificial intelligence technologies, applications, and therapies. This book will focus on the early diagnosis of ASD through artificial intelligence, such as deep learning and machine learning algorithms, for confirming diagnosis or suggesting the need for further evaluation of individuals.

The chapters will also discuss the use of artificial intelligence technologies, such as medical robots, for enhancing the communication skills and the social and emotional skills of children who have been diagnosed with ASD. This book is ideally intended for IT specialists, data scientists, academicians, scholars, researchers, policymakers, medical practitioners, and students interested in how artificial intelligence is impacting the diagnosis and treatment of autism

spectrum disorder. *Computer Vision and Image Processing* Springer Nature
This book constitutes the thoroughly refereed proceedings of the 13th International Conference on Image Analysis and Recognition, ICIAR 2016, held in Póvoa de Varzim, Portugal, in July 2016. The 79 revised full papers and 10 short papers presented were carefully reviewed and selected from 167 submissions. The papers are organized in the following topical sections: Advances in Data

Analytics and Pattern Recognition with Applications, Image Enhancement and Restoration, Image Quality Assessment, Image Segmentation, Pattern Analysis and Recognition, Feature Extraction, Detection and Recognition, Matching, Motion and Tracking, 3D Computer Vision, RGB-D Camera Applications, Visual Perception in Robotics, Biometrics, Biomedical Imaging, Brain Imaging, Cardiovascular Image Analysis, Image Analysis in

Ophthalmology, Document Analysis, Applications, and Obituaries. The chapter 'Morphological Separation of Clustered Nuclei in Histological Images' is published open access under a CC BY 4.0 license at link.springer.com. [International Conference on Artificial Intelligence and Sustainable Engineering](#) Springer Nature
 This two-volume set (CCIS 1567-1568) constitutes the refereed proceedings of the 6h International Conference on Computer

Vision and Image Processing, CVIP 2021, held in Rupnagar, India, in December 2021. The 70 full papers and 20 short papers were carefully reviewed and selected from the 260 submissions. The papers present recent research on such topics as biometrics, forensics, content protection, image enhancement/super-resolution/restoration, motion and tracking, image or video retrieval, image, image/video processing for autonomous vehicles, video scene

understanding, human-computer interaction, document image analysis, face, iris, emotion, sign language and gesture recognition, 3D image/video processing, action and event detection/recognition, medical image and video analysis, vision-based human GAIT analysis, remote sensing, and more.

Computer Vision and Image Processing

Springer Nature

This book discusses new cognitive informatics tools, algorithms and

methods that mimic the mechanisms of the human brain which lead to an impending revolution in understating a large amount of data generated by various smart applications. The book is a collection of peer-reviewed best selected research papers presented at the International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2020), organized by SCAD College of Engineering and Technology, Tirunelveli, India, during 8–9 July

2020. The book includes novel work in data intelligence domain which combines with the increasing efforts of artificial intelligence, machine learning, deep learning and cognitive science to study and develop a deeper understanding of the information processing systems.

[Digital Libraries](#) Springer Nature

Implement supervised and unsupervised machine learning algorithms using C++ libraries such as PyTorch

C++ API, Caffe2, Shogun, Shark-ML, mlpack, and dlib with the help of real-world examples and datasets

Key Features

Become familiar with data processing, performance measuring, and model selection using various C++ libraries

Implement practical machine learning and deep learning techniques to build smart models

Deploy machine learning models to work on mobile and embedded devices

Book Description

C++ can make your machine learning models

run faster and more efficiently. This handy guide will help you learn the fundamentals of machine learning (ML), showing you how to use C++ libraries to get the most out of your data. This book makes machine learning with C++ for beginners easy with its example-based approach, demonstrating how to implement supervised and unsupervised ML algorithms through real-world examples. This book will get you hands-on with tuning and optimizing a model for different use

cases, assisting you with model selection and the measurement of performance. You'll cover techniques such as product recommendations, ensemble learning, and anomaly detection using modern C++ libraries such as PyTorch C++ API, Caffe2, Shogun, Shark-ML, mlpack, and dlib. Next, you'll explore neural networks and deep learning using examples such as image classification and sentiment analysis, which will help you solve various

problems. Later, you'll learn how to handle production and deployment challenges on mobile and cloud platforms, before discovering how to export and import models using the ONNX format. By the end of this C++ book, you will have real-world machine learning and C++ knowledge, as well as the skills to use C++ to build powerful ML systems. What you will learn

Explore how to load and preprocess various data types to suitable C++ data

structures

Employ key machine learning algorithms with various C++ libraries

Understand the grid-search approach to find the best parameters for a machine learning model

Implement an algorithm for filtering anomalies in user data using Gaussian distribution

Improve collaborative filtering to deal with dynamic user preferences

Use C++ libraries and APIs to manage model structures and parameters

Implement a C++ program to solve

image classification tasks with LeNet architecture

Who this book is for

You will find this C++ machine learning book useful if you want to get started with machine learning algorithms and techniques using the popular C++ language. As well as being a useful first course in machine learning with C++, this book will also appeal to data analysts, data scientists, and machine learning developers who are looking to implement different machine learning models in production

using varied datasets and examples. Working knowledge of the C++ programming language is mandatory to get started with this book.

Computational Vision and Medical Image Processing IV Springer Nature

It is no secret that the world of libraries has rapidly evolved into an environment which will soon be largely digitized. However, this digital shift has brought with it a unique set of challenges and issues for scholars and librarians to handle.

Recent Developments in the Design, Construction, and Evaluation of Digital Libraries not only addresses the challenges with digital libraries, but it also describes the recent developments in the design, construction, and evaluation of these libraries in various environments. This cutting-edge resource compiles research from a wide array of specialists into a unified and comprehensive manner. Librarians, researchers, scholars, and professionals in this field

will find the reference source beneficial in order to deepen their understanding of this continually growing field.

Computer Vision and Image Processing Springer

The book provides insights into the Second International Conference on Computer Vision & Image Processing (CVIP-2017) organized by Department of Computer Science and Engineering of Indian Institute of Technology Roorkee. The book presents technological progress

and research outcomes in the area of image processing and computer vision. The topics covered in this book are image/video processing and analysis; image/video formation and display; image/video filtering, restoration, enhancement and super-resolution; image/video coding and transmission; image/video storage, retrieval and authentication; image/video quality; transform-based and multi-resolution image/video analysis; biological and perceptual

models for image/video processing; machine learning in image/video analysis; probability and uncertainty handling for image/video processing; motion and tracking; segmentation and recognition; shape, structure and stereo.

Handbook of Research on Computer Vision and Image Processing in the Deep Learning Era Packt Publishing Ltd

This book comprises select papers from the International Conference on Artificial Intelligence and Sustainable

Engineering (AISE 2020). The volume focuses on the recent advancements in artificial intelligence and addresses how it is useful in achieving truly sustainable solutions. The key strands of this book include artificial intelligence in healthcare, IoT for modern life, security and surveillance, big data analytics, machine learning and computing, communication technologies, gesture technology, virtual intelligence, and audio & speech processing. The

book addresses sustainability challenges in various computing techniques and opportunities for sustainable engineering based on AI and supporting tools such as engineering design for sustainable development using IoT/AI, smart cities: waste minimization, remanufacturing, reuse and recycling technologies using IoT/AI, industry 4.0, intelligent and smart grid systems, energy conservation using technology, green engineering/technology,

robotic process automation (RPA) and water and air quality management. This book can be a valuable resource for academicians, researchers, and professionals working in AI and its applications.

**ENVIRONMENTAL
MODELING USING
SATELLITE IMAGING
AND DATASET RE-
PROCESSING**

Springer Nature
Computational Vision and
Medical Image Processing.

VIPIIMAGE 2013 contains invited lectures and full papers presented at VIPIIMAGE 2013 - IV ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (Funchal, Madeira Island, Portugal, 14-16 October 2013). International contributions from 16 countries provide a comprehensive cov

**ADVANCES IN
ARTIFICIAL AND
HUMAN INTELLIGENCE**

IN THE MODERN ERA

No Starch Press

This book introduces methods of re-processing images to extract numerical information that can be used to quantify the observables in environmental modelling. Experiments or procedures that yield large images can be statistically or parametrically examined. Through the use of open source libraries, the book shows how 'big data' in the form of images or datasets can be

comparatively analysed along same defined procedures or standards. This book helps to solve the challenges of discarding datasets that are relevant directly or indirectly to the research. The habit of screening datasets leads to the discard of over 90% of the original dataset or images generated in the experiments or procedure. If the images or datasets are generated under the same principles or conditions, then each measurement may be the narrative of unique

events. The focus of this book is to enlighten researchers on how to analyse measurements with the aim of ensuring 100% utilization.

Data Intelligence and Cognitive Informatics

Packt Publishing Ltd

This book, the third one of three volumes, focuses on data and the actions around data, like storage and processing. The angle shifts over the volumes from a business-driven approach in "Disruption and DNA" to a strong technical focus in "Data Storage, Processing and

Analysis”, leaving “Digitalization and Machine Learning Applications” with the business and technical aspects in-between. In the last volume of the series, “Data Storage, Processing and Analysis”, the shifts in the way we deal with data are addressed.

Math for Security

Academic Press

Use applied math to map fire stations, develop facial recognition software, solve the art gallery problem and more in this hands-on, real-world infosec book.

Explore the intersection of mathematics and computer security with this engaging and accessible guide. Math for Security will equip you with essential tools to tackle complex security problems head on. All you need are some basic programming skills. Once you’ve set up your development environment and reviewed the necessary Python syntax and math notation in the early chapters, you’ll dive deep into practical applications, leveraging the power of math to

analyze networks, optimize resource distribution, and much more. In the book’s final chapters, you’ll take your projects from proof of concepts to viable applications and explore options for delivering them to end users. As you work through various security scenarios, you’ll: Employ packet analysis and graph theory to detect data exfiltration attempts in a network Predict potential targets and find weaknesses in social networks with Monte Carlo simulations

Use basic geometry and OpenCell data to triangulate a phone's location without GPS
 Apply computational geometry to Voronoi diagrams for use in emergency service planning
 Train a facial recognition system with machine learning for real-time identity verification
 Use spatial analysis to distribute physical security features effectively in an art gallery
 Whether you're an aspiring security professional, a social network analyst, or an

innovator seeking to create cutting-edge security solutions, this book will empower you to solve complex problems with precision and confidence. Embrace the intricate world of math as your secret weapon in computer security!
 Covers Python 3.x
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thoroughly refereed workshop proceedings of the Second International Workshop on Medical Computer Vision, MCV 2012, held in Nice, France, October 2012 in conjunction with the 15th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2012. The 24 papers have been selected out of 42 submissions. At MCV 2012, 12 papers were presented as a poster and 12 as a poster together with a plenary talk. The

book also features four selected papers which were presented at the previous CVPR Medical Computer Vision workshop held in conjunction with the International Conference on Computer Vision and Pattern Recognition on June 21 2012 in Providence, Rhode Island, USA. The papers explore the use of modern computer vision technology in tasks such as automatic segmentation and registration, localization of anatomical features

and detection of anomalies, as well as 3D reconstruction and biophysical model personalization.

Mastering OpenCV 4 with Python

Packt Publishing Ltd

Handbook of Research on Computer Vision and Image Processing in the Deep Learning Era IGI Global

RECENT DEVELOPMENTS IN THE DESIGN, CONSTRUCTION, AND

EVALUATION OF DIGITAL LIBRARIES: CASE STUDIES

Association of Research Libr

This book constitutes the refereed proceedings of the First Symposium on Machine Learning and Metaheuristics Algorithms, and Applications, held in Trivandrum, India, in December 2019. The 17 full papers and 6 short papers presented in this volume were thoroughly reviewed and selected from 53 qualified

submissions. The papers cover such topics as machine learning, artificial intelligence, Internet of Things, modeling and simulation, distributed computing methodologies, computer graphics, etc.

Introduction to Audio Analysis John Wiley and Sons

"This book is an in-depth collection aimed at developers and scholars of research articles from the expanding field of digital libraries"--Provided by publisher.

Machine Learning with

Swift Springer Nature Introduction to Audio Analysis serves as a standalone introduction to audio analysis, providing theoretical background to many state-of-the-art techniques. It covers the essential theory necessary to develop audio engineering applications, but also uses programming techniques, notably MATLAB®, to take a more applied approach to the topic. Basic theory and reproducible experiments are combined to demonstrate theoretical concepts from

a practical point of view and provide a solid foundation in the field of audio analysis. Audio feature extraction, audio classification, audio segmentation, and music information retrieval are all addressed in detail, along with material on basic audio processing and frequency domain representations and filtering. Throughout the text, reproducible MATLAB® examples are accompanied by theoretical descriptions, illustrating how concepts and equations can be

applied to the development of audio analysis systems and components. A blend of reproducible MATLAB® code and essential theory provides enable the reader to delve into the world of audio signals and develop real-world audio applications in various domains. Practical approach to signal processing: The first book to focus on audio analysis from a signal processing perspective, demonstrating practical implementation alongside theoretical concepts

Bridge the gap between theory and practice: The authors demonstrate how to apply equations to real-life code examples and resources, giving you the technical skills to develop real-world applications
 Library of MATLAB code: The book is accompanied by a well-documented library of MATLAB functions and reproducible experiments

MACHINE LEARNING AND METAHEURISTICS ALGORITHMS, AND

APPLICATIONS

Springer Nature
 In the realm of psychological and brain sciences, there is a growing urgency to refine individual performance using personalized interventions that account for unique cognitive and biological attributes. Yet, the quest for such tailored approaches has proven challenging, as conventional methods often fall short. The limited integration of domain expertise and human judgment curtails

the potential of artificial intelligence (AI) in effectively optimizing human performance, particularly in areas like customized training, health monitoring, and cognitive enhancement. Bridging the gap between AI capabilities and the specific requirements of individuals becomes crucial in meeting this rising demand. Advances in Artificial and Human Intelligence in the Modern Era present a transformative solution to tackle the prevailing challenges at the

intersection of AI and human performance enhancement. This book delves deeply into the latest empirical research, literature reviews, and methodological advancements to introduce precision AI techniques for personalized interventions. By examining how the amalgamation of domain expertise and human insights can enhance AI performance, the book establishes a

comprehensive framework for modeling individual distinctions and devising effective, tailored AI approaches. Tailored for academic scholars and researchers in psychological and brain sciences, computer science, and related fields, this book provides a comprehensive exploration of pioneering advancements in the convergence of artificial and human intelligence. Its diverse chapters

encompass a wide array of topics, including the identification of mental health concerns, integration of human intelligence into AI tools, enhancement of reliability, and exploration of data standards. As it fuses expertise from these two disciplines, the book paves the way for a new era of personalized interventions with the potential to revolutionize human cognitive enhancement, training, and overall well-being.

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