

# Digital Image Processing

a practical  
introduction  
using **Java™**



Nick Efford



# Digital Image Processing A Practical Introduction Using Java With Cd Rom

**Borko Furht, Esad Akar, Whitney  
Angelica Andrews**



## **Digital Image Processing A Practical Introduction Using Java With Cd Rom:**

**Digital Image Processing** Nick Efford, 2000 CD ROM contains Java classes for use in developing image processing software as well as completed image processing software      Practical Image and Video Processing Using MATLAB Oge Marques, 2011-08-04 UP TO DATE TECHNICALLY 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 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 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 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 activities and step by step tutorials These chapters cover image acquisition and digitization arithmetic logic and geometric operations point based histogram based and neighborhood based image enhancement techniques the Fourier Transform and relevant frequency domain image filtering techniques image restoration mathematical morphology edge detection techniques image segmentation image compression and coding and feature extraction and representation Part II Video Processing presents the main concepts and terminology 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 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 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 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 and video processing courses as well as for engineers researchers software developers practitioners and anyone who wishes to learn about these increasingly popular topics on their own      *Proceedings of International Scientific Conference on Telecommunications, Computing and Control* Nikita Voinov, Tobias Schreck, Sanowar Khan, 2021-04-28 This book provides a platform for academics and practitioners for sharing innovative results approaches developments and research projects in computer science and information technology focusing on the latest challenges in advanced computing and solutions introducing mathematical and engineering approaches The book presents discussions in the area of advances and challenges of modern computer science including telecommunications and signal processing machine learning and artificial intelligence intelligent control systems modeling and simulation data science and big data data visualization and graphics systems distributed cloud and high performance computing and software engineering The papers included are presented at TELECCON 2019 organized by Peter the Great St

Petersburg University during November 18 19 2019      *Digital Image Processing and Analysis* Scott E Umbaugh, 2017-11-30 Digital image processing and analysis is a field that continues to experience rapid growth with applications in many facets of 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 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 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 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      Advanced Composite Materials Ashutosh Tiwari, Mohammad Rabia Alenezi, Seong Chan Jun, 2016-09-14 Composites materials is basically the combining of unique properties of materials to have synergistic effects A combination of materials is needed to adapt to certain properties for any application area There is an everlasting desire to make composite materials stronger lighter or more durable than traditional materials Carbon materials are known to be attractive in composites because of their combination of chemical and physical properties In the recent years development of new composites has been influenced by precision green approaches that restrict hazardous substances and waste created during production This book ranges from the fundamental principles underpinning the fabrication of different composite materials to their devices for example applications in energy harvesting memory devices electrochemical biosensing and other advanced composite based biomedical applications This book provides a compilation of innovative fabrication strategies and utilization methodologies which are frequently adopted in the advanced composite materials community with respect to developing appropriate composites to efficiently utilize macro and nanoscale features The key topics are Pioneer composite materials for printed electronics Current limiting defects in superconductors High tech ceramics materials Carbon nanomaterials for electrochemical biosensing Nanostructured ceramics and bioceramics for bone cancer Importance of biomaterials for bone regeneration Tuning hydroxyapatite particles Carbon nanotubes reinforced bioceramic composite Biomimetic prototype interface      Intelligent Automation and Computer Engineering Oscar Castillo, He Huang, 2010-07-17 A large international conference in Intelligent Automation and Computer Engineering was held in Hong Kong March 18 20 2009 under the auspices of the International MultiConference of Engineers and Computer Scientists IMECS 2009 The IMECS is organized by the International Association of Engineers IAENG Intelligent Automation and Computer Engineering contains 37 revised and extended research articles written by prominent researchers participating in the conference Topics covered include artificial intelligence decision supporting systems automated planning automation systems control engineering systems identification modelling and simulation communication systems signal processing and industrial applications Intelligent Automation and Computer Engineering offers the state of the art of tremendous advances in intelligent automation and computer engineering

and also serves as an excellent reference text for researchers and graduate students working on intelligent automation and computer engineering

**Remote Sensing for Geoscientists** Gary L. Prost, 2013-12-13 This third edition of the bestselling *Remote Sensing for Geologists A Guide to Image Interpretation* is now titled *Remote Sensing for Geoscientists Image Analysis and Integration* The title change reflects that this edition applies to a broad spectrum of geosciences not just geology stresses that remote sensing has become more than photointerpretation and emphasizes integration of multiple remote sensing technologies to solve Earth science problems The text reviews systems and applications explains what to look for when analyzing imagery and provides abundant case histories to illustrate the integration and application of these tools See What's New in the Second Edition Broader coverage to include integration of multiple remote sensing technologies Expanded with significant new illustrations in color and reviews of new satellites and sensors Analysis of imagery for geobotanical remote sensing remote geochemistry modern analogs to ancient environments and astrogeology The book covers how to initiate a project including determining the objective choosing the right tools and selecting imagery It describes techniques used in geologic mapping and mineral and hydrocarbon exploration image analysis used in mine development and petroleum exploitation site evaluation groundwater development surface water monitoring geothermal resource exploitation and logistics It also demonstrates how imagery is used to establish environmental baselines monitor land air and water quality map hazards and determine the effects of global warming The many examples of geologic mapping on other planets and the moon highlight how to analyze planetary surface processes map stratigraphy and locate resources The book then examines remote sensing and the public geographic information systems and Google Earth and how imagery is used by the media in the legal system

**Journal of Object-oriented Programming**, 2000 *Choice*, 2005

**Digital Image Processing** Wilhelm Burger, Mark J. Burge, 2009-11-14 Written as an introduction for undergraduate students this textbook covers the most important methods in digital image processing Formal and mathematical aspects are discussed at a fundamental level and various practical examples and exercises supplement the text The book uses the image processing environment ImageJ freely distributed by the National Institute of Health A comprehensive website supports the book and contains full source code for all examples in the book a question and answer forum slides for instructors etc *Digital Image Processing in Java* is the definitive textbook for computer science students studying image processing and digital processing

*Digital Image Processing: Practical Approach* Borko Furht, Esad Akar, Whitney Angelica Andrews, 2018-08-28 The SpringerBrief covers fundamentals of digital image processing including image concept image file formats creating user interfaces and many practical examples of processing images using C and Java These practical examples include among other creating image histograms performing lossless image compression detecting change in colors similarity based image retrieval and others All practical examples are accompanied with an explanation how to create programs and the obtained results This SpringerBrief can be very useful for the undergraduate courses on image processing providing students with the

basic tools in image analysis and processing Practitioners and researchers working in this field will also find this research useful     **The British National Bibliography** Arthur James Wells,2009     Subject Guide to Books in Print ,1997

*Digital Image Processing* Bernd Jähne,2005-04-07 This long established and well received monograph offers an integral view of image processing from image acquisition to the extraction of the data of interest written by a physical scientists for other scientists Supplements discussion of the general concepts is supplemented with examples from applications on PC based image processing systems and ready to use implementations of important algorithms Completely revised and extended the most notable extensions being a detailed discussion on random variables and fields 3 D imaging techniques and a unified approach to regularized parameter estimation     The Visualization Toolkit Will Schroeder,Kenneth William Martin,Ken Martin,Bill Lorensen,1998 This Java built Visualization Toolkit VTK will enable readers to represent any set of data medical scientific or financial in 3D Users will learn to build 3D Java applets with the VTK software on the CD ROM The book covers Web applications like VRML Java and Java3D     **Image Processing in Java** Douglas A. Lyon,1999 Software Programming Languages     *Digital Image Processing: Practical Approach* Borko Furht,Esad Akar,Whitney Angelica Andrews,2018 The SpringerBrief covers fundamentals of digital image processing including image concept image file formats creating user interfaces and many practical examples of processing images using C and Java These practical examples include among other creating image histograms performing lossless image compression detecting change in colors similarity based image retrieval and others All practical examples are accompanied with an explanation how to create programs and the obtained results This SpringerBrief can be very useful for the undergraduate courses on image processing providing students with the basic tools in image analysis and processing Practitioners and researchers working in this field will also find this research useful     *Forthcoming Books* Rose Arny,2002     **Library Literature** ,1934 An index to library and information science     **Documentation Abstracts** ,1999

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