

A Matlab Toolbox For Hyperspectral Image Analysis

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Hyperspectral Remote Sensing
Multi-Sensor Data Fusion
AI-Based Optimized Design of Structural Frames
Modern Control System Theory and Design
MATLAB Tools for Control System Analysis and Design
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Communications Toolbox for Use with MATLAB
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Data Sources
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Christopher R. Madan
Christine Preisach
Ruiliang Pu
H.B. Mitchell
Won-Kee Hong
Stanley M. Shinnars
Duane C. Hanselman
A.A. Petrosian
Stephen J. Chapman
Richard Y. Chiang
Math Works, Inc
Bradley Jones
Weizheng Wang
José Joaquin Granda
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this is the second volume in a trilogy on modern signal processing the three books provide a concise exposition of signal processing topics and a guide to support individual practical exploration based on matlab programs this second book focuses on recent developments in response to the

demands of new digital technologies it is divided into two parts the first part includes four chapters on the decomposition and recovery of signals with special emphasis on images in turn the second part includes three chapters and addresses important data based actions such as adaptive filtering experimental modeling and classification

matlab is a powerful data analysis program but many behavioral science researchers find it too daunting to learn and use an introduction to matlab for behavioral researchers is an easy to understand hands on guide for behavioral researchers who have no prior programming experience written in a conversational and non intimidating style the author walks students step by step through analyzing real experimental data topics covered include the basics of programming the implementation of simple behavioral analyses and how to make publication ready figures more advanced topics such as pseudo randomization of trial sequences to meet specified criteria and working with psycholinguistic data are also covered interesting behavioral science examples and datasets from published studies such as visualizing fixation patterns in eye tracking studies and animal search behavior in two dimensional space help develop an intuition for data analysis which is essential and can only be developed when working with real research problems and real data

data analysis and machine learning are research areas at the intersection of computer science artificial intelligence mathematics and statistics they cover general methods and techniques that can be applied to a vast set of applications such as web and text mining marketing medical science bioinformatics and business intelligence this volume contains the revised versions of selected papers in the field of data analysis machine learning and applications presented during the 31st annual conference of the german classification society gesellschaft für klassifikation gfkf the conference was held at the albert ludwigs university in freiburg germany in march 2007

advanced imaging spectral technology and hyperspectral analysis techniques for multiple applications are the key features of the book this book will present in one volume complete solutions from concepts fundamentals and methods of acquisition of hyperspectral data to analyses and applications of the data in a very coherent manner it will help readers to fully understand basic theories of hrs how to utilize various field spectrometers and bioinstruments the importance of radiometric correction and atmospheric correction the use of analysis tools and software and determine what to do with hrs technology and data

the purpose of this book is to provide an introduction to the theories and techniques of multi sensor data fusion the book has been designed as a text for a one semester graduate course in multi sensor data fusion it should also be useful to advanced undergraduates in electrical engineering

or computer science who are studying data fusion for the first time and to practising engineers who wish to apply the concepts of data fusion to practical applications the book is intended to be largely self contained in so far as the subject of multi sensor data fusion is concerned although some prior exposure to the subject may be helpful to the reader a clear understanding of multi sensor data fusion can only be achieved with the use of a certain minimum level of mathematics it is therefore assumed that the reader has a reasonable working knowledge of the basic tools of linear algebra calculus and simple probability theory more specific results and techniques which are required are explained in the body of the book or in appendices which are appended to the end of the book

this book introduces an auto design based optimization for building frames using an artificial neural network ann based lagrange method and novel genetic algorithm ga the work of great mathematician joseph louis lagrange and anns are merged to identify parameters that optimize structural frames of reinforced concrete prestressed concrete and steel frames subject to one or more design constraints new features for enhancing conventional ga are also demonstrated to optimize structural frames new features for optimizing multiple design targets of the building frames are highlighted while design requirements imposed by codes are automatically satisfied chapters provide readers with an understanding of how both ann based and novel ga based structural optimization can be implemented in holistically optimizing designated design targets for building structural frames guiding readers toward more rational designs that is consistent with american institute of steel construction aisc and american concrete institute aci standards ann based holistic designs of multi story frames in general and reinforced concrete prestressed concrete and steel frames in particular are introduced this book suits structural engineers architects and graduate students in the field of building frame designs and is heavily illustrated with color figures and tables

the definitive guide to control system design modern control system theory and design second edition offers the most comprehensive treatment of control systems available today its unique text software combination integrates classical and modern control system theories while promoting an interactive computer based approach to design solutions the sheer volume of practical examples as well as the hundreds of illustrations of control systems from all engineering fields make this volume accessible to students and indispensable for professional engineers this fully updated second edition features a new chapter on modern control system design including state space design techniques ackermann's formula for pole placement estimation robust control and the h method for control system design other notable additions to this edition are free matlab software containing problem solutions which can be retrieved from the mathworks inc anonymous ftp server at <ftp://ftp.mathworks.com/pub/books/shinners> programs and tutorials on the use of matlab incorporated directly into the text a complete set of working digital computer programs reviews of commercial software packages for control system analysis an extensive set of new worked out illustrative solutions added in dedicated

sections at the end of chapters expanded end of chapter problems one third with answers to facilitate self study an updated solutions manual containing solutions to the remaining two thirds of the problems superbly organized and easy to use modern control system theory and design second edition is an ideal textbook for introductory courses in control systems and an excellent professional reference its interdisciplinary approach makes it invaluable for practicing engineers in electrical mechanical aeronautical chemical and nuclear engineering and related areas

disk includes a set of matlab m files called the control system analysis and design toolbox or csad toolbox

despite their novelty wavelets have a tremendous impact on a number of modern scientific disciplines particularly on signal and image analysis because of their powerful underlying mathematical theory they offer exciting opportunities for the design of new multi resolution processing algorithms and effective pattern recognition systems this book provides a much needed overview of current trends in the practical application of wavelet theory it combines cutting edge research in the rapidly developing wavelet theory with ideas from practical signal and image analysis fields subjects dealt with include balanced discussions on wavelet theory and its specific application in diverse fields ranging from data compression to seismic equipment in addition the book offers insights into recent advances in emerging topics such as double density dwt multiscale bayesian estimation symmetry and locality in image representation and image fusion audience this volume will be of interest to graduate students and researchers whose work involves acoustics speech signal and image processing approximations and expansions fourier analysis and medical imaging

emphasising problem solving throughout this successful title introduces the matlab language and shows how to use it to solve typical technical problems it demonstrates how to write clean efficient and well documented programs and how to locate any desired function with matlab s online help facilities

the papers in this volume are a partial selection from the international conference on microelectronic 1999 which provides a forum for the presentation and discussion of the recent developments and future trends in the field of microelectronics

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Introduction

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