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Titolo	Handbook of medical image processing and analysis [[electronic resource] /] / edited by Issac N. Bankman
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Edizione	[2nd ed.]
Descrizione fisica	1 online resource (1009 p.)
Collana	Academic Press series in biomedical engineering
Altri autori (Persone)	BankmanI. N (Isaac N.)
Disciplina	616.07 616.07/54 616.0754
Soggetti	Diagnostic imaging - Digital techniques Imaging systems in medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Handbook of Medical Image Processing and Analysis; Copyright Page; Contents; Foreword; Contributors; Preface; Acknowledgments; Part I Enhancement; Chapter 1 Fundamental Enhancement Techniques; 1.1 Introduction; 1.2 Preliminaries and Definitions; 1.3 Pixel Operations; 1.4 Local Operators; 1.5 Operations with Multiple Images; 1.6 Frequency Domain Techniques; 1.7 Concluding Remarks; 1.8 References; Chapter 2 Adaptive Image Filtering; 2.1 Introduction; 2.2 Multidimensional Spatial Frequencies and Filtering; 2.3 Random Fields and Wiener Filtering; 2.4 Adaptive Wiener Filters 2.5 Anisotropic Adaptive Filtering2.6 References; Chapter 3 Enhancement by Multiscale Nonlinear Operators; 3.1 Introduction; 3.2 One-Dimensional Discrete Dyadic Wavelet Transform; 3.3 Linear Enhancement and Unsharp Masking; 3.4 Nonlinear Enhancement by Functional Mapping; 3.5 A Method for Combined Denoising and Enhancement; 3.6 Two-Dimensional Extension; 3.7 Experimental Results and Comparison; 3.8 Conclusion; 3.9 References; Chapter 4

Medical Image Enhancement Using Fourier Descriptors and Hybrid Filters; 4.1 Introduction; 4.2 Design of the Hybrid Filter; 4.3 Experimental Results
4.4 Discussion and Conclusion4.5 References; Part II Segmentation; Chapter 5 Overview and Fundamentals of Medical Image Segmentation; 5.1 Introduction; 5.2 Thresholding; 5.3 Region Growing; 5.4 Watershed Algorithm; 5.5 Edge-Based Segmentation Techniques; 5.6 Multispectral Techniques; 5.7 Other Techniques; 5.8 Concluding Remarks; 5.9 References; Chapter 6 Image Segmentation by Fuzzy Clustering: Methods and Issues; 6.1 Introduction; 6.2 The Quantitative Basis of Fuzzy Image Segmentation; 6.3 Qualitative Discussion of a Few Fuzzy Image Segmentation Methods; 6.4 Conclusions and Discussion
6.5 ReferencesChapter 7 Segmentation with Neural Networks; 7.1 Introduction; 7.2 Structure and Function of the GRBF Network; 7.3 Training Procedure; 7.4 Application to Medical Image Segmentation; 7.5 Image Data; 7.6 Preprocessing; 7.7 Vector Quantization; 7.8 Classification; 7.9 Results; 7.10 Discussion; 7.11 Topical Applications, Conceptual Extensions, and Outlook; 7.12 Conclusion and Outlook; 7.13 References; Chapter 8 Deformable Models; 8.1 Introduction; 8.2 Mathematical Foundations of Deformable Models; 8.3 Medical Image Analysis with Deformable Models; 8.4 Discussion; 8.5 Conclusion
8.6 ReferencesChapter 9 Shape Information in Deformable Models; 9.1 Background; 9.2 Global Shape Constraints; 9.3 Level Set Methods Incorporating Generic Constraints; 9.4 Conclusions; 9.5 References; Chapter 10 Gradient Vector Flow Deformable Models; 10.1 Introduction; 10.2 Background; 10.3 GVF Deformable Contours; 10.4 Experiments; 10.5 3D GVF Deformable Models and Results; 10.6 Discussion; 10.7 Conclusions; 10.8 References; Chapter 11 Fully Automated Hybrid Segmentation of the Brain; 11.1 Introduction; 11.2 Brain Segmentation Method; 11.3 Other Brain Segmentation Techniques; 11.4 Summary
11.5 References

Sommario/riassunto

The Handbook of Medical Image Processing and Analysis is a comprehensive compilation of concepts and techniques used for processing and analyzing medical images after they have been generated or digitized. The Handbook is organized into six sections that relate to the main functions: enhancement, segmentation, quantification, registration, visualization, and compression, storage and communication.The second edition is extensively revised and updated throughout, reflecting new technology and research, and includes new chapters on: higher order statistics for tissue segmentation; tumor g

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Autore	Jastrzbska Agnieszka
Titolo	Analysing Web Traffic : A Case Study on Artificial and Genuine Advertisement-Related Behaviour / / by Agnieszka Jastrzbska, Jan W. Owsiski, Karol Opara, Marek Gajewski, Olgierd Hryniewicz, Mariusz Kozakiewicz, Sawomir Zadrony, Tomasz Zwierzchowski
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ISBN	3-031-32503-6
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Collana	Studies in Big Data, , 2197-6511 ; ; 127
Altri autori (Persone)	OwsinskiJ. W (Jan W.) OparaKarol GajewskiMarek HryniewiczOlgierd KozakiewiczMariusz ZadroznySawomir ZwierzchowskiTomasz
Disciplina	659.144
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	The problem and its key characteristics -- The pragmatics of the data acquisition and assessment -- The proper representation: patterns, variables and their analysis -- Clustering analysis -- Building the classifiers -- The hybrid cluster-and-classify approach -- A summary view of the problem and its solution.
Sommario/riassunto	This book presents ample, richly illustrated account on results and experience from a project, dealing with the analysis of data concerning behavior patterns on the Web. The advertising on the Web is dealt with, and the ultimate issue is to assess the share of the artificial, automated

activity (ads fraud), as opposed to the genuine human activity. After a comprehensive introductory part, a full-fledged report is provided from a wide range of analytic and design efforts, oriented at: the representation of the Web behavior patterns, formation and selection of telling variables, structuring of the populations of behavior patterns, including the use of clustering, classification of these patterns, and devising most effective and efficient techniques to separate the artificial from the genuine traffic. A series of important and useful conclusions is drawn, concerning both the nature of the observed phenomenon, and hence the characteristics of the respective datasets, and theappropriateness of the methodological approaches tried out and devised. Some of these observations and conclusions, both related to data and to methods employed, provide a new insight and are sometimes surprising. The book provides also a rich bibliography on the main problem approached and on the various methodologies tried out.