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| | 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<br>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 |

| 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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