

Preface

This book is basically the result of our passion toward the research of application of Image processing in medical field. This work started out as a survey and then evolved according to our interest and proclivity into a work that emphasizes the aspects of Image processing in medical applications. The major issue in people nowadays is the lack of awareness and ignorance about health issues. The topic of “Imaging” has become more than a technical subject these days. In our society, digital images are widely used communication medium. They have an important impact on our life. They are a compact and easy way which represents the world that surrounds us. Writing this book is for us a step toward realizing our own greater capacity for loving, peace, joy, and fulfillment of the passion toward Medical Imaging. The material in the book is written for persons at a number of levels. Much of it is introductory for an engineer, but serves to link engineering principles with living systems of human being. For that reason, it needs to be studied with some care.

Molecular Imaging Technologies in diagnostic studies has evolved as a result of the significant contributions of a number of different disciplines from basic sciences, engineering, and medicine. This book is a collection of all the experimental results and analysis carried out Molecular Medical images. The experimental investigations have been carried out on MRI and CT images using State-of-art Computational Image processing techniques and also tabulated the statistical values wherever necessary.

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