

Preface

The most of the applications of digital speech processing deal with speech or speaker pattern recognition. To understand the practical implementation of the speech or speaker recognition techniques, there is the need to understand the concepts of digital speech processing and the pattern recognition. This book aims in giving the balanced treatment of both the concepts. This book deals with speech processing concepts like speech production model, speech feature extraction, speech compression, etc., and the basic pattern recognition concepts applied to speech signals like PCA, LDA, ICA, SVM, HMM, GMM, BPN, KSOM, etc. The book is written such that it is suitable for the beginners who are doing basic research in digital speech processing. All the topics covered in this book are illustrated using Matlab in almost all the topics for better understanding.



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