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Titolo	Handbook of vowels and vowel disorders // edited by Martin J. Ball and Fiona E. Gibbon
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Altri autori (Persone)	BallMartin J (Martin John) GibbonFiona E
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title; Copyright; CONTENTS; Contributors; Preface; Chapter 1 Development of the Vowel Space in Children: Anatomical and Acoustic Aspects; Chapter 2 Normal Vowel Development; Chapter 3 The Contribution of Phonetics to the Study of Vowel Development and Disorders; Chapter 4 The Acoustic Measurement of Vowels; Chapter 5 Vowel Imaging; Chapter 6 Vowel Perception in Normal Speakers; Chapter 7 Cross-linguistic Study of Vowel Systems; Chapter 8 Sociolinguistic Variation in Vowels; Chapter 9 Recurring Patterns and Idiosyncratic Systems in Some English Children with Vowel Disorders Chapter 10 The Memphis Vowel Project: Vowel Errors in Children with and without Phonological DisordersChapter 11 Context Conditioned Error Patterns in Disordered Systems; Chapter 12 Vowel Production in Childhood and Acquired Apraxia of Speech; Chapter 13 Vowels in Foreign Accent Syndrome; Chapter 14 Vowel Disorders in Hearing Impairment; Chapter 15 Vowel Perception in Listeners with Cochlear Implants; Chapter 16 Clinical Phonology of Vowel Disorders; Chapter

Sommario/riassunto

In the general study of speech and phonetics, vowels have stood in second place to consonants. But what vowels are, how they differ from one another, how they vary among speakers, and how they are subject to disorder, are questions that require a closer examination. This Handbook presents a comprehensive, cogent, and up-to-date analysis of the vowel, including its typical development in children's speech, description by perceptual and instrumental methods, cross-linguistic and sociolinguistic aspects, and disorders of its production and use. It approaches the problems of vowel

2. Record Nr.

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Titolo

Prostate Cancer Imaging: Computer-Aided Diagnosis, Prognosis, and Intervention : International Workshop, Held in Conjunction with MICCAI 2010, Beijing, China, September 24, 2010, Proceedings // edited by Anant Madabhushi, Jason Dowling, Pingkun Yan, Aaron Fenster, Purang Abolmaesumi, Nobuhiko Hata

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Classificazione

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Altri autori (Persone)

MadabhushiAnant

Disciplina

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Soggetti

User interfaces (Computer systems)
Human-computer interaction
Computer vision
Pattern recognition systems
Computer graphics
Image processing - Digital techniques
Computer simulation
User Interfaces and Human Computer Interaction
Computer Vision
Automated Pattern Recognition
Computer Graphics
Computer Imaging, Vision, Pattern Recognition and Graphics

Computer Modelling

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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Prostate Cancer MR Imaging -- Computer Aided Detection of Prostate Cancer Using T2, DWI and DCE MRI: Methods and Clinical Applications -- Prostate Cancer Segmentation Using Multispectral Random Walks -- Automatic MRI Atlas-Based External Beam Radiation Therapy Treatment Planning for Prostate Cancer -- An Efficient Inverse-Consistent Diffeomorphic Image Registration Method for Prostate Adaptive Radiotherapy -- Atlas Based Segmentation and Mapping of Organs at Risk from Planning CT for the Development of Voxel-Wise Predictive Models of Toxicity in Prostate Radiotherapy -- Realtime TRUS/MRI Fusion Targeted-Biopsy for Prostate Cancer: A Clinical Demonstration of Increased Positive Biopsy Rates -- HistoCAD: Machine Facilitated Quantitative Histoimaging with Computer Assisted Diagnosis -- Registration of In Vivo Prostate Magnetic Resonance Images to Digital Histopathology Images -- High-Throughput Prostate Cancer Gland Detection, Segmentation, and Classification from Digitized Needle Core Biopsies -- Automated Analysis of PIN-4 Stained Prostate Needle Biopsies -- Augmented Reality Image Guidance in Minimally Invasive Prostatectomy -- Texture Guided Active Appearance Model Propagation for Prostate Segmentation -- Novel Stochastic Framework for Accurate Segmentation of Prostate in Dynamic Contrast Enhanced MRI -- Boundary Delineation in Prostate Imaging Using Active Contour Segmentation Method with Interactively Defined Object Regions.
Sommario/riassunto	Prostatic adenocarcinoma (CAP) is the second most common malignancy with an estimated 190,000 new cases in the USA in 2010 (Source: American Cancer Society), and is the most frequently diagnosed cancer among men. If CAP is caught early, men have a high, five-year survival rate. Unfortunately there is no standardized imaged-based screening protocol for early detection of CAP (unlike for breast cancers). In the USA high levels of prostate-specific antigen (PSA) warrant a trans-rectal ultrasound (TRUS) biopsy to enable histologic confirmation of presence or absence of CAP. With recent rapid developments in multi-parametric radiological imaging techniques (spectroscopy, dynamic contrast enhanced MR imaging, PET, RF ultrasound), some of these functional and metabolic imaging modalities are allowing for definition of high resolution, multi-modal signatures for prostate cancer in vivo. Distinct computational and technological challenges for multi-modal data registration and classification still remain in leveraging this multi-parametric data for directing therapy and optimizing biopsy. Additionally, with the recent advent of whole slide digital scanners, digitized histopathology has become amenable to computerized image analysis. While it is known that outcome of prostate cancer (prognosis) is highly correlated with Gleason grade, pathologists often have difficulty in distinguishing between intermediate Gleason grades from histopathology. Development of computerized image analysis methods for automated Gleason grading and predicting outcome on histopathology have to confront the significant computational challenges associated with

working these very large digitized images.
