1. Record Nr. UNINA9910465717403321

Titolo	Cultivars [[electronic resource]] : chemical properties, antioxidant activities and health benefits / / Katya Carbone, editor
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, 2013
ISBN	1-62417-103-6
Descrizione fisica	1 online resource (291 p.)
Collana	Agriculture issues and policies Botanical research and practices Nova biomedical
Altri autori (Persone)	CarboneKatya
Disciplina	333.95/34
Soggetti	Plants - Analysis Botanical chemistry Antioxidants Plant varieties - Research Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Vegetable breeding for nutritional quality and health benefits / Joao Silva Dias -- Cultivar identification and traceability, a molecular approach / Antonella Pasqualone -- Antioxidant compounds and nutraceutical benefits of Mediterranean red fruit / Teresa Casacchia and Adriano Sofo -- Phytochemical profiles and antiradical capacity of grape seed extracts from different Italian cultivar: re-using of winery by-products / Francesca Cecchini ... et al. -- Common beans: antioxidant capacity and health connection / R. Campos-Vega and Dave B. Oomah -- Chemical properties and health benefits of active constituents in cultivar seed oils / Aicha Olfa Cherif -- Comparative study on phenolic profile and antioxidant potential of six Tunisian autochthonous olive cultivars / B. Gargouri, I. Feki, M. Bouaziz -- Study of the oxidative stability of almonds based on different parametres and techniques: application to cultivar authenticity / A. Beltran Sanahuja, M. C. Garrigos Selva -- Different cultivars of the same species of plant may produce proteins that differ in structure and function / Tzi Bun Ng, Evandro Fei Fang, Jack Ho Wong -- Corn biotechnology / Pil Son Choi

		... et al. -- Influences of nitrate on nodule structure and nitrate reductase activity in Arachis hypogaea L. (cv Tegua Runner type) / Cecilia Belgoff, Maria del Carmen Tordable and Stella Castro -- Fatty acid un-saturation in the response of tomato to temperature stress / Anita Maienza ... et al.
2.	Record Nr.	UNINA9910790748003321
	Titolo	Computer vision in medical imaging / / editor, C.H. Chen
	Pubbl/distr/stampa	New Jersey : , : World Scientific, , [2014] 2014
	ISBN	981-4460-94-X
	Descrizione fisica	1 online resource (xiii, 393 pages) : illustrations (some color)
	Collana	Series in computer vision ; ; volume 2
	Disciplina	006.37
	Soggetti	Diagnostic imaging - Data processing Computer vision 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	Preface; CONTENTS; Chapter 1 An Introduction to Computer Vision in Medical Imaging Chi Hau Chen; 1. Introduction; 2. Some Medical Imaging Methods; 2.1. X-ray; 2.2. Magnetic Resonance Image (MRI); 2.3. Intravascular Ultrasound (IVUS); 3. Roles of Computer Vision, Image Processing and Pattern Recognition; 4. Active Contours; 4.1. Snakes; 4.2. Level set methods; 4.3. Geodesic active contours; 4.4. Region-based active contours; 4.5. Hybrid evolution method; 4.6. IVUS image segmentation; 5. Concluding Remarks; Acknowledgment; References; Part 1 Theory and Methodologies Chapter 2 Distribution Matching Approaches to Medical Image Segmentation Ismail Ben Ayed1. Introduction; 2. Formulations; 3. Optimization Aspects; 3.1. Specialized optimizers; 3.2. Derivative-based optimizers; 3.2.1. Active curves and level sets; 3.2.2. Line search and trust region methods; 3.3. Bound optimizers; 3.3.1. Graph cuts; 3.3.2. Convex-relaxation techniques; 4. Medical Imaging Applications; 4.1. Left ventricle segmentation in cardiac images; 4.1.1. Example; 4.2. Vertebral-body segmentation in spine images; 4.2.1. Example; 4.3.

Brain tumor segmentation; 5. Conclusion and Outlook
ReferencesChapter 3 Digital Pathology in Medical Imaging Bikash Sabata, Chukka Srinivas, Pascal Bamford and Gerardo Fernandez; 1. Introduction; A. Subtyping and the role of digital pathology; B. Quantification of IHC markers; C. Tissue and stain variability; D. Rules-based segmentation and identification; E. Learning from image data examples; F. Object-based learning models; G. Membrane detection algorithms; H. HER2 Dual ISH slide scoring algorithm; 2. DP Enabled Applications; 3. Multiplexed Quantification; 4. Quantification Algorithms; 5. Summary; Acknowledgment; References
Chapter 4 Adaptive Shape Prior Modeling via Online Dictionary Learning Shaoting Zhang, Yiqiang Zhan, Yan Zhou and Dimitris Metaxas1. Introduction; 2. Relevant Work; 3. Methodology; 3.1. Sparse Shape Composition; 3.2. Shape Dictionary Learning; 3.3. Online Shape Dictionary Update; 4. Experiments; 4.1. Lung Localization; 4.2. Real-time Left Ventricle Tracking; 5. Conclusions; References; Chapter 5 Feature-Centric Lesion Detection and Retrieval in Thoracic Images Yang Song, Weidong Cai, Stefan Eberl, Michael J Fulham and David Dagan Feng; 1. Lesion Detection; 1.1. Review of State-of-the-art
1.2. Region-based Feature Classification1.2.1. Region Type Identification; 1.2.2. Region Type Refinement; 1.2.3. 3D Object Localization; 1.3. Multi-stage Discriminative Model; 1.3.1. Abnormality Detection; 1.3.2. Tumor and Lymph Node Differentiation; 1.3.3. Tumor Region Refinement; 1.3.4. Experimental Results; 1.4. Data Adaptive Structure Estimation; 1.4.1. Initial Abnormality Detection; 1.4.2. Adaptive Structure Estimation; 1.4.3. Feature Extraction and Classification; 1.4.4. Experimental Results; 2. Thoracic Image Retrieval; 2.1. Review of State-of-the-art
2.2. Pathological Feature Description

Sommario/riassunto

The major progress in computer vision allows us to make extensive use of medical imaging data to provide us better diagnosis, treatment and predication of diseases. Computer vision can exploit texture, shape, contour and prior knowledge along with contextual information from image sequence and provide 3D and 4D information that helps with better human understanding. Many powerful tools have been available through image segmentation, machine learning, pattern classification, tracking, reconstruction to bring much needed quantitative information not easily available by trained human specialists.