

1. Record Nr.	UNINA9910484341603321
Titolo	Medical Content-Based Retrieval for Clinical Decision Support : First MICCAI International Workshop, MCBR-CBS 2009, London, UK, September 20, 2009. Revised Selected Papers / / edited by Henning Müller, Tanveer Syeda-Mahmood, James Duncan, Fei Wang, Jayashree Kalpathy-Cramer
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38565-0 9786613563576 3-642-11769-4
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (129 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 5853
Disciplina	610.285
Soggetti	Data mining Biometric identification Pattern recognition systems Information storage and retrieval systems Image processing - Digital techniques Computer vision Electronic data processing - Management Data Mining and Knowledge Discovery Biometrics Automated Pattern Recognition Information Storage and Retrieval Computer Imaging, Vision, Pattern Recognition and Graphics IT Operations
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	Medical Image Retrieval -- Overview of the First Workshop on Medical Content-Based Retrieval for Clinical Decision Support at MICCAI 2009 -- Introducing Space and Time in Local Feature-Based Endoscopic

Image Retrieval -- A Query-by-Example Content-Based Image Retrieval System of Non-melanoma Skin Lesions -- 3D Case-Based Retrieval for Interstitial Lung Diseases -- Image Retrieval for Alzheimer's Disease Detection -- Clinical Decision Making -- Statistical Analysis of Gait Data to Assist Clinical Decision Making -- Using BI-RADS Descriptors and Ensemble Learning for Classifying Masses in Mammograms -- Robust Learning-Based Annotation of Medical Radiographs -- Multimodal Fusion -- Knowledge-Based Discrimination in Alzheimer's Disease -- Automatic Annotation of X-Ray Images: A Study on Attribute Selection -- Multi-modal Query Expansion Based on Local Analysis for Medical Image Retrieval.

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#### Sommario/riassunto

We are pleased to present this set of peer-reviewed papers from the 1st MICCAI Workshop on Medical Content-Based Retrieval for Clinical Decision Support. The MICCAI conference has been the flagship conference for the medical imaging community reflecting the state of the art in techniques of segmentation, registration, and robotic surgery. Yet, the transfer of these techniques to clinical practice is rarely discussed in the MICCAI conference. To address this gap, we proposed to hold this workshop with MICCAI in London in September 2009. The goal of the workshop was to show the application of content-based retrieval in clinical decision support. With advances in electronic patient record systems, a large number of pre-diagnosed patient data sets are now becoming available. These data sets are often multimodal consisting of images (x-ray, CT, MRI), videos and other time series, and textual data (free text reports and structured clinical data). Analyzing these multimodal sources for disease-specific information across patients can reveal important similarities between patients and hence their underlying diseases and potential treatments. Researchers are now beginning to use techniques of content-based retrieval to search for disease-specific information in modalities to find supporting evidence for a disease or to automatically learn associations of symptoms and diseases. Benchmarking frameworks such as ImageCLEF (Image retrieval track in the Cross-Language Evaluation Forum) have expanded over the past five years to include large medical image collections for testing various algorithms for medical image retrieval and classification.

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