scientific reports

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Evaluation of retrieval accuracy and visual similarity in content-based image retrieval of chest CT for obstructive lung disease

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The aim of our study was to assess the performance of content-based image retrieval (CBIR) for similar chest computed tomography (CT) in obstructive lung disease. This retrospective study included patients with obstructive lung disease who underwent volumetric chest CT scans. The CBIR database included 600 chest CT scans from 541 patients. To assess the system performance, follow-up chest CT scans of 50 patients were evaluated as query cases, which showed the stability of the CT findings between baseline and follow-up chest CT, as confirmed by thoracic radiologists. The CBIR system retrieved the top five similar CT scans for each query case from the database by quantifying and comparing emphysema extent and size, airway wall thickness, and peripheral pulmonary vasculatures in descending order from the database. The rates of retrieval of the same pairs of query CT scans in the top 1–5 retrievals were assessed. Two expert chest radiologists evaluated the visual similarities between the query and retrieved CT scans using a five-point scale grading system. The rates of retrieving the same pairs of query CTs were 60.0% (30/50) and 68.0% (34/50) for top-three and top-five retrievals. Radiologists rated 64.8% (95% confidence interval 58.8–70.4) of the retrieved CT scans with a visual similarity score of four or five and at least one case scored five points in 74% (74/100) of all query cases. The proposed CBIR system for obstructive lung disease integrating quantitative CT measures demonstrated potential for retrieving chest CT scans with similar imaging phenotypes. Further refinement and validation in this field would be valuable.

Due to substantial heterogeneity in physiological and imaging characteristics, therapy response, and disease course, including disease progression and mortality in patients with chronic obstructive pulmonary disease (COPD), there have been continuous efforts to characterize and define subtypes of COPD with distinct patterns of emphysema and airway disease in the past decade[1]. Not all, but there are subgroups in which such efforts may afford a marked clinical benefit[2–4]. Chest computed tomography (CT) imaging has revolutionized the diagnostic approach for COPD by defining phenotypes. Recognizing these different phenotypes in COPD and reclassifying COPD patient severity based on imaging measurements of the pathologies responsible for symptoms and progression, may serve as an initial move towards to start personalized or, at least, optimized therapies[5]. Chest CT allow emphysema classification and quantification, as well as quantification of other abnormalities, including

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State-of-the-Art in Content-Based Image and Video Retrieval Remco C. Veltkamp,Hans Burkhardt,Hans-Peter Kriegel,2013-04-17 Images and video play a crucial role in visual information systems and multimedia There is an extraordinary number of applications of such systems in entertainment business art engineering and science Such applications often involved large image and video collections and therefore searching for images and video in large collections is becoming an important operation Because of the size of such databases efficiency is crucial We strongly believe that image and video retrieval need an integrated approach from fields such as image processing shape processing perception database indexing visualization and querying etc This book contains a selection of results that was presented at the Dagstuhl Seminar on Content Based Image and Video Retrieval in December 1999 The purpose of this seminar was to bring together people from the various fields in order to promote information exchange and interaction among researchers who are interested in various aspects of accessing the content of image and video data The book provides an overview of the state of the art in content based image and video retrieval The topics covered by the chapters are integrated system aspects as well as techniques from image processing computer vision multimedia databases graphics signal processing and information theory The book will be of interest to researchers and professionals in the fields of multimedia visual information database systems computer vision and information retrieval   Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care Cruz-Cunha, Maria Manuela,Miranda, Isabel Maria,Gonçalves, Patricia,2013-04-30 Through the use of ICT tools such as the internet portals and telecommunication devices the quality of healthcare has improved in local and global health aiding in the development of a sustainable economy Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care brings together a valuable research collection on ICT elements needed to improve communication and collaboration between global health institutes public and private organizations and foundations Highlighting the adoption and success factors in the development of technologies for healthcare this book is essential for IT professionals technology solution providers researchers and students interested in technology and its relationship with healthcare and social services   **Multimedia Analysis, Processing and Communications** Lin Weisi,Dacheng Tao,Janusz Kacprzyk,Zhu Li,Ebroul Izquierdo,Haohong Wang,2011-04-11 This book has brought 24 groups of experts and active researchers around the world together in image processing and analysis video processing and analysis and communications related processing to present their newest research results exchange latest experiences and insights and explore future directions in these important and rapidly evolving areas It aims at increasing the synergy between academic and industry professionals working in the related field It focuses on the state of the art research in various essential areas related to emerging technologies standards and applications on analysis processing computing and communication of multimedia information The target audience of this

book is researchers and engineers as well as graduate students working in various disciplines linked to multimedia analysis processing and communications e g computer vision pattern recognition information technology image processing and artificial intelligence The book is also meant to a broader audience including practicing professionals working in image video applications such as image processing video surveillance multimedia indexing and retrieval and so on We hope that the researchers engineers students and other professionals who read this book would find it informative useful and inspirational toward their own work in one way or another   Pattern Recognition Bernd Radig,Stefan Florczyk,2007-08-03 Sometimes milestones in the evolution of the DAGM Symposium become immediately visible The Technical Committee decided to publish the symposium proceedings completely in English As a consequence we successfully negotiated with Springer Verlag to publish in the international well accepted series Lecture Notes in Computer Science The quality of the contributions convinced the editors and the lectors Thanks to them and to the authors We received 105 acceptable good and even excellent manuscripts We selected carefully using three reviewers for each anonymized paper 58 talks and posters Our 41 reviewers had a hard job evaluating and especially rejecting contributions We are grateful for the time and effort they spent in this task The program committee awarded prizes to the best papers We are much obliged to the generous sponsors We had three invited talks from outstanding colleagues namely Bernhard Nebel Robot Soccer A Challenge for Cooperative Action and Perception Thomas Lengauer Computational Biology An Interdisciplinary Challenge for Computational Pattern Recognition and Nassir Navab Medical and Industrial Augmented Reality Challenges for Real Time Vision Computer Graphics and Mobile Computing N Navab even wrote a special paper for this conference which is included in the proceedings We were proud that we could convince well known experts to offer tutorials to our participants H P Seidel Univ Saarbr cken A Framework for the Acquisition Processing and Interactive Display of High Quality 3D Models S Heuel Univ Bonn Projective Geometry for Grouping and Orientation Tasks G Rigoll Univ   Advances in Multimedia Modeling Klaus Schoeffmann,Bernard Mérialdo,Alexander G. Hauptmann,Chong-Wah Ngo,Yiannis Andreopoulos,Christian Breiteneder,2012-01-03 This book constitutes the refereed proceedings of the 18th International Multimedia Modeling Conference MMM 2012 held in Klagenfurt Austria in January 2012 The 38 revised regular papers 12 special session papers 15 poster session papers and 6 demo session papers were carefully reviewed and selected from 142 submissions The papers are organized in the following topical sections annotation annotation and interactive multimedia applications event and activity mining and mobile multimedia applications search summarization and visualization visualization and advanced multimedia systems and the special sessions interactive and immersive entertainment and communication multimedia preservation how to ensure multimedia access over time multi modal and cross modal search and video surveillance   **IEEE Workshop on Content-Based Access of Image and Video Libraries (CBAIVL 2001)** ,2001 This workshop held in December 2001 on Kauai discussed various means for retrieving information from digital images and video The proceedings features 20 papers

grouped into the four themes of image content analysis and object based retrieval video content analysis content based querying and v   *Perspectives on Content-Based Multimedia Systems* Jian Kang Wu,Mohan S. Kankanhalli,Joo-Hwee Lim,Dezhong Hong,2006-04-11 Multimedia data comprising of images audio and video is becoming increasingly common The decreasing costs of consumer electronic devices such as digital cameras and digital camcorders along with the ease of transportation facilitated by the Internet has lead to a phenomenal rise in the amount of multimedia data generated and distributed Given that this trend of increased use of multimedia data is likely to accelerate there is an urgent need for providing a clear means of capturing storing indexing retrieving analyzing and summarizing such data Content based access to multimedia data is of primary importance since it is the natural way by which human beings interact with such information To facilitate the content based access of multimedia information the first step is to derive feature measures from these data so that a feature space representation of the data content can be formed This can subsequently allow for mapping the feature space to the symbol space semantics either automatically or through human intervention Thus signal to symbol mapping useful for any practical system can be successfully achieved Perspectives on Content Based Multimedia Systems provides a comprehensive set of techniques to tackle these important issues This book offers detailed solutions to a wide range of practical problems in building real systems by providing specifics of three systems built by the authors While providing a systems focus it also equips the reader with a keen understanding of the fundamental issues including a formalism for content based multimedia database systems multimedia feature extraction object based techniques signature based techniques and fuzzy retrieval techniques The performance evaluation issues of practical systems is also explained This book brings together essential elements of building a content based multimedia database system in a way that makes them accessible to practitioners in computer science and electrical engineering It can also serve as a textbook for graduate level courses   **Intelligent Multimedia, Computing and Communcations** ,2001   **Handbook of Information Science** Wolfgang G. Stock,Mechtild Stock,2013-07-31 Dealing with information is one of the vital skills in the 21st century It takes a fair degree of information savvy to create represent and supply information as well as to search for and retrieve relevant knowledge How does information documents pieces of knowledge have to be organized in order to be retrievable What role does metadata play What are search engines on the Web or in corporate intranets and how do they work How must one deal with natural language processing and tools of knowledge organization such as thesauri classification systems and ontologies How useful is social tagging How valuable are intellectually created abstracts and automatically prepared extracts Which empirical methods allow for user research and which for the evaluation of information systems This Handbook is a basic work of information science providing a comprehensive overview of the current state of information retrieval and knowledge representation It addresses readers from all professions and scientific disciplines but particularly scholars practitioners and students of Information Science Library Science Computer Science Information Management and Knowledge Management

This Handbook is a suitable reference work for Public and Academic Libraries   Visual Communications and Image Processing 2004 Sethuraman Panchanathan,Vasudev Bhaskaran,2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature   **Knowledge-based Intelligent Information and Engineering Systems** ,2005   *Internet Multimedia Management Systems* ,2000   Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society IEEE Industrial Electronics Society. Conference,2003   **Pattern Recognition** DAGM (Organization). Symposium,2003   **ACM Multimedia 2001** ACM International Multimedia Conference,2001   *Index of Conference Proceedings* British Library. Document Supply Centre,2002   **Internet Imaging** ,2001   *Advances in Multimedia Information Processing-PCM ...* ,2005   Two- and Three-dimensional Vision Systems for Inspection, Control, and Metrology ,2004   Freeform Feature Recognition and Manipulation to Support Shape Design Thomas Robin Langerak,2008

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