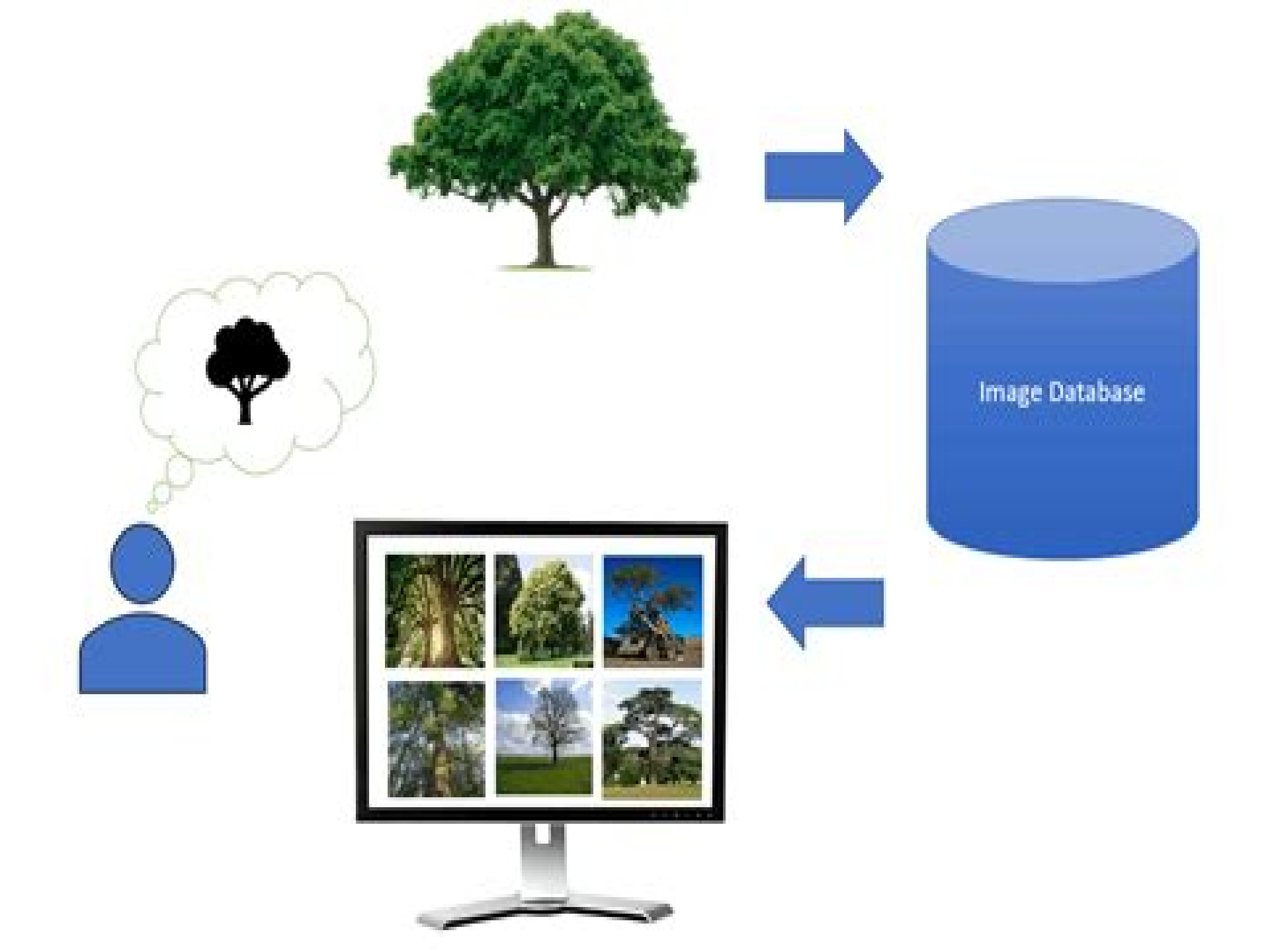
Image Database

Image Classification Using Content Based Image Retrieval

Kathleen Armour

Image Classification Using Content Based Image Retrieval:

Semantic and Interactive Content-based Image Retrieval Björn Barz,2020-12-23 Content based Image Retrieval CBIR ist ein Verfahren zum Auffinden von Bildern in gro en Datenbanken wie z B dem Internet anhand ihres Inhalts Ausgehend von einem vom Nutzer bereitgestellten Anfragebild gibt das System eine sortierte Liste hnlicher Bilder zur ck Der Gro teil moderner CBIR Systeme vergleicht Bilder ausschlie lich anhand ihrer visuellen hnlichkeit d h dem Vorhandensein hnlicher Texturen Farbkompositionen etc Jedoch impliziert visuelle hnlichkeit nicht zwangsl ufig auch semantische hnlichkeit Zum Beispiel k nnen Bilder von Schmetterlingen und Raupen als hnlich betrachtet werden weil sich die Raupe irgendwann in einen Schmetterling verwandelt Optisch haben sie jedoch nicht viel gemeinsam Die vorliegende Arbeit stellt eine Methode vor welche solch menschliches Vorwissen ber die Semantik der Welt in Deep Learning Verfahren integriert Als Quelle f r dieses Wissen dienen Taxonomien die f r eine Vielzahl von Dom nen verf gbar sind und hierarchische Beziehungen zwischen Konzepten kodieren z B ein Pudel ist ein Hund ist ein Tier etc Diese hierarchiebasierten semantischen Bildmerkmale verbessern die semantische Konsistenz der CBIR Ergebnisse im Vergleich zu herk mmlichen Repr sentationen und Merkmalen erheblich Dar ber hinaus werden drei verschiedene Mechanismen f r interaktives Image Retrieval pr sentiert welche die den Anfragebildern inh rente semantische Ambiguit t durch Einbezug von Benutzerfeedback aufl sen Eine der vorgeschlagenen Methoden reduziert das erforderliche Feedback mithilfe von Clustering auf einen einzigen Klick w hrend eine andere den Nutzer kontinuierlich involviert indem das System aktiv nach Feedback zu denjenigen Bildern fragt von denen der gr te Erkenntnisgewinn bez glich des Relevanzmodells erwartet wird Die dritte Methode erm glicht dem Benutzer die Auswahl besonders interessanter Bildbereiche zur Fokussierung der Ergebnisse Diese Techniken liefern bereits nach wenigen Feedbackrunden deutlich relevantere Ergebnisse was die Gesamtmenge der abgerufenen Bilder reduziert die der Benutzer berpr fen muss um relevante Bilder zu finden Content based image retrieval CBIR aims for finding images in large databases such as the internet based on their content Given an exemplary query image provided by the user the retrieval system provides a ranked list of similar images Most contemporary CBIR systems compare images solely by means of their visual similarity i e the occurrence of similar textures and the composition of colors However visual similarity does not necessarily coincide with semantic similarity For example images of butterflies and caterpillars can be considered as similar because the caterpillar turns into a butterfly at some point in time Visually however they do not have much in common In this work we propose to integrate such human prior knowledge about the semantics of the world into deep learning techniques Class hierarchies serve as a source for this knowledge which are readily available for a plethora of domains and encode is a relationships e g a poodle is a dog is an animal etc Our hierarchy based semantic embeddings improve the semantic consistency of CBIR results substantially compared to conventional image representations and features We furthermore present three different mechanisms for interactive image retrieval by incorporating user feedback to resolve the inherent

semantic ambiguity present in the query image One of the proposed methods reduces the required user feedback to a single click using clustering while another keeps the human in the loop by actively asking for feedback regarding those images which are expected to improve the relevance model the most The third method allows the user to select particularly interesting regions in images These techniques yield more relevant results after a few rounds of feedback which reduces the total amount of retrieved images the user needs to inspect to find relevant ones **Content-based Image Retrieval Using Deep Learning** Anshuman Vikram Singh,2015 A content based image retrieval CBIR system works on the low level visual features of a user input query image which makes it difficult for the users to formulate the query and also does not give satisfactory retrieval results In the past image annotation was proposed as the best possible system for CBIR which works on the principle of automatically assigning keywords to images that help image retrieval users to query images based on these keywords Image annotation is often regarded as the problem of image classification where images are represented by some low level features an teh mapping between low level features and high level concepts class labels is done by supervised learning algorithms In a CBIR system learning of effective feature representations and similarity measures is very important for the retrieval performance Semantic gap has been the key challenge for this problem A semantic gap exists between low level image pixels captured by machines and the high level semantics perceived by humans The recent successes of deep learning techniques especially Convolutional Neural Networks CNN in solving computer vision applications has inspired me to work on this thesis so as to solve teh problem of CBIR using a dataset of annotated images Abstract Transactions on Computational Science XXV Marina L. Gavrilova,C.J. Kenneth Tan,Khalid Saeed,Nabendu Chaki,Soharab Hossain Shaikh,2015-04-27 The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines The journal focuses on original high quality research in the realm of computational science in parallel and distributed environments encompassing the facilitating theoretical foundations and the applications of large scale computations and massive data processing It addresses researchers and practitioners in areas ranging from aerospace to biochemistry from electronics to geosciences from mathematics to software architecture presenting verifiable computational methods findings and solutions and enabling industrial users to apply techniques of leading edge large scale high performance computational methods This the 25th issue of the Transactions on Computational Science journal consists of two parts Part I which is guest edited by Khalid Saeed Nabendu Chaki and Soharab Hossain Shaikh covers the areas of computer vision image processing for biometric security information fusion and Kinect activity recognition The papers in Part II focus on optimization through novel methods for data fusion clustering in WSN fault tolerance probability weight assignment and risk analysis *Pervasive Computing and Social Networking* G. Ranganathan,Robert Bestak,Ram Palanisamy,Álvaro Rocha,2022-01-01 The book features original papers from International Conference on Pervasive

Computing and Social Networking ICPCSN 2021 organized by NSIT Salem India during 19 20 march 2021 It covers research works on conceptual constructive empirical theoretical and practical implementations of pervasive computing and social networking methods for developing more novel ideas and innovations in the growing field of information and communication technologies **Intelligent Computing and Networking** Valentina Emilia Balas,Vijay Bhaskar Semwal,Anand Khandare,2022-02-08 This book gathers high quality peer reviewed research papers presented at the International Conference on Intelligent Computing and Networking IC ICN 2021 organized by the Computer Department Thakur College of Engineering and Technology in Mumbai Maharashtra India on February 26 27 2021 The book includes innovative and novel papers in the areas of intelligent computing artificial intelligence machine learning deep learning fuzzy logic natural language processing human machine interaction big data mining data science and mining applications of intelligent systems in health care finance agriculture and manufacturing high performance computing computer networking sensor and wireless networks Internet of Things IoT software defined networks cryptography mobile computing digital forensics and blockchain technology Diabetes and Fundus OCT Ayman S. El-Baz,Jasjit Suri,2020-04-03 Diabetes and Fundus OCT brings together a stellar cast of authors who review the computer aided diagnostic CAD systems developed to diagnose non proliferative diabetic retinopathy in an automated fashion using Fundus and OCTA images Academic researchers bioengineers new investigators and students interested in diabetes and retinopathy need an authoritative reference to bring this multidisciplinary field together to help reduce the amount of time spent on source searching and instead focus on actual research and the clinical application This reference depicts the current clinical understanding of diabetic retinopathy along with the many scientific advances in understanding this condition As the role of optical coherence tomography OCT in the assessment and management of diabetic retinopathy has become significant in understanding the vireo retinal relationships and the internal architecture of the retina this information is more critical than ever Deep Learning for Biomedical Data Analysis Mourad Elloumi,2021-07-13 This book is the first overview on Deep Learning DL for biomedical data analysis It surveys the most recent techniques and approaches in this field with both a broad coverage and enough depth to be of practical use to working professionals This book offers enough fundamental and technical information on these techniques approaches and the related problems without overcrowding the reader s head It presents the results of the latest investigations in the field of DL for biomedical data analysis The techniques and approaches presented in this book deal with the most important and or the newest topics encountered in this field They combine fundamental theory of Artificial Intelligence AI Machine Learning ML and DL with practical applications in Biology and Medicine Certainly the list of topics covered in this book is not exhaustive but these topics will shed light on the implications of the presented techniques and approaches on other topics in biomedical data analysis The book finds a balance between theoretical and practical coverage of a wide range of issues in the field of biomedical data analysis thanks to DL The few published books on DL for biomedical

data analysis either focus on specific topics or lack technical depth The chapters presented in this book were selected for quality and relevance The book also presents experiments that provide qualitative and quantitative overviews in the field of biomedical data analysis The reader will require some familiarity with AI ML and DL and will learn about techniques and approaches that deal with the most important and or the newest topics encountered in the field of DL for biomedical data analysis He she will discover both the fundamentals behind DL techniques and approaches and their applications on biomedical data This book can also serve as a reference book for graduate courses in Bioinformatics AI ML and DL The book aims not only at professional researchers and practitioners but also graduate students senior undergraduate students and young researchers This book will certainly show the way to new techniques and approaches to make new discoveries

From Content-based to Semantic Image Retrieval Aamer Saleh Sahel Mohamed,2010 Digital image archiving urgently requires advanced techniques for more efficient storage and retrieval methods because of the increasing amount of digital Although JPEG supply systems to compress image data efficiently the problems of how to organize the image database structure for efficient indexing and retrieval how to index and retrieve image data from DCT compressed domain and how to interpret image data semantically are major obstacles for further development of digital image database system In content based image image analysis is the primary step to extract useful information from image databases The difficulty in content based image retrieval is how to summarize the low level features into high level or semantic descriptors to facilitate the retrieval procedure Such a shift toward a semantic visual data learning or detection of semantic objects generates an urgent need to link the low level features with semantic understanding of the observed visual information To solve such a semantic gap problem an efficient way is to develop a number of classifiers to identify the presence of semantic image components that can be connected to semantic descriptors Among various semantic objects the human face is a very important example which is usually also the most significant element in many images and photos The presence of faces can usually be correlated to specific scenes with semantic inference according to a given ontology Therefore face detection can be an efficient tool to annotate images for semantic descriptors In this thesis a paradigm to process analyze and interpret digital images is proposed In order to speed up access to desired images after accessing image data image features are presented for analysis This analysis gives not only a structure for content based image retrieval but also the basic units ii for high level semantic image interpretation Finally images are interpreted and classified into some semantic categories by semantic object detection categorization algorithm **Twin Support Vector Machines** Jayadeva,Reshma Khemchandani,Suresh Chandra,2016-10-12 This book provides a systematic and focused study of the various aspects of twin support vector machines TWSVM and related developments for classification and regression In addition to presenting most of the basic models of TWSVM and twin support vector regression TWSVR available in the literature it also discusses the important and challenging applications of this new machine learning methodology A chapter on Additional Topics has been included to

discuss kernel optimization and support tensor machine topics which are comparatively new but have great potential in applications It is primarily written for graduate students and researchers in the area of machine learning and related topics in computer science mathematics electrical engineering management science and finance *Proceedings of the ... Annual International ACMSIGIR Conference on Research and Development in Information Retrieval* ,2003 **Advances in Mechatronics, Robotics and Automation II** Prasad Yarlagadda,2014-04-04 Selected peer reviewed papers from the 2014 2nd International Conference on Mechatronics Robotics and Automation ICMRA 2014 March 8 9 2014 Zhuhai China

Neurocomputing Research Developments Hugo A. Svensson,2007 Neurocomputing is at the centre of multidisciplinary research which involves computations by biological neural networks and those by artificial neural networks Topics include vision signal and pattern processing learning neurodynamics associative memory hardware and so on in the networks This important book presents new research in the field *Artificial Intelligence for Maximizing Content Based Image Retrieval* Ma, Zongmin,2009-01-31 Discusses major aspects of content based image retrieval CBIR using current technologies and applications within the artificial intelligence AI field **The Dhaka University Journal of Science** ,2009 Proceedings of the International Conference on Multimedia Computing and Systems, May 14-19, 1994, Boston, Massachusetts IEEE Computer Society. Task Force on Multimedia Computing,1994 The proceedings of the first IEEE International Conference on Multimedia Computing and Systems comprise technical sessions on scheduling and synchronization synthetic information and video generation networking operating systems content based retrieval distributed systems capture and creation

Proceedings of the ... ACM International Workshop on Multimedia Databases ,2004 *Conference Record of the Thirty-Seventh Asilomar Conference on Signals, Systems & Computers, November 9-12, 2003, Pacific Grove, California* Michael B. Matthews,2003 Proceedings ACM Multimedia 2000 Workshops ,2000 *Measuring Technology and Mechatronics Automation* Zhixiang Hou,2011-02-02 Selected peer reviewed papers from the Third International Conference on Measuring Technology and Mechatronics Automation ICMTMA held in Shanghai China Jan 6 7 2011 □□□□□□ ,1998

Image Classification Using Content Based Image Retrieval: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Image Classification Using Content Based Image Retrieval : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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