



# Image Classification Using Content Based Image Retrieval

**M Mosston**



## **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 großen Datenbanken wie z.B. dem Internet anhand ihres Inhalts. Ausgehend von einem vom Nutzer bereitgestellten Anfragebild gibt das System eine sortierte Liste ähnlicher Bilder zurück. Der Großteil moderner CBIR Systeme vergleicht Bilder ausschließlich anhand ihrer visuellen Ähnlichkeit, d.h. dem Vorhandensein ähnlicher Texturen, Farbkompositionen etc. Jedoch impliziert visuelle Ähnlichkeit nicht zwangsläufig auch semantische Ähnlichkeit. Zum Beispiel können Bilder von Schmetterlingen und Raupen als ähnlich 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 solches menschliches Vorwissen über die Semantik der Welt in Deep Learning Verfahren integriert. Als Quelle für dieses Wissen dienen Taxonomien, die für eine Vielzahl von Domänen verfügbar 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 herkömmlichen Repräsentationen und Merkmalen erheblich. Darüber hinaus werden drei verschiedene Mechanismen für interaktives Image Retrieval präsentiert, welche die den Anfragebildern inhärente semantische Ambiguität durch Einbezug von Benutzerfeedback auflösen. Eine der vorgeschlagenen Methoden reduziert das erforderliche Feedback mithilfe von Clustering auf einen einzigen Klick während eine andere den Nutzer kontinuierlich involviert, indem das System aktiv nach Feedback zu denjenigen Bildern fragt, von denen der größte Erkenntnisgewinn bezuglich des Relevanzmodells erwartet wird. Die dritte Methode ermöglicht 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 überprüfen 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 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**

**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

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**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

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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 ACM SIGIR Conference on Research and Development in Information Retrieval** ,2003

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

*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

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