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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

A SCALABLE APPROACH FOR CONTENT BASED IMAGE RETRIEVAL IN PEER-TO-PEER NETWORKS

ABSTRACT

Peer-to-peer networking offers a scalable solution for sharing multimedia data across the network. With a large amount of visual data distributed among different nodes, it is an important but challenging issue to perform content-based retrieval in peer-to-peer networks. While most of the existing methods focus on indexing high dimensional visual features and have limitations of scalability, in this paper we propose a scalable approach for content-based image retrieval in peer-to-peer networks by employing the bag-of-visual-words model. Compared with centralized environments, the key challenge is to efficiently obtain a global codebook, as images are distributed across the whole peer-to-peer network. In addition, a peer-to-peer network often evolves dynamically, which makes a static codebook less effective for retrieval tasks. Therefore, we propose a dynamic codebook updating method by optimizing the mutual information between the resultant codebook and relevance information, and the workload balance among nodes that manage different codeword's. In order to further improve retrieval performance and reduce network cost, indexing pruning techniques are developed. Our comprehensive experimental

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results indicate that the proposed approach is scalable in evolving and distributed peer-to-peer networks, while achieving improved retrieval accuracy.

EXISTING SYSTEM:

While most of the existing methods focus on indexing high dimensional visual features and have limitations of scalability, in this paper we propose a scalable approach for content-based image retrieval in peer-to-peer networks by employing the bag-of-visual-words model. Even in a centralized environment, the performance of high-dimensional indexing suffers from the well-known “curse of dimensionality”. Even when one can update the hash functions with changing data, implementing it over the DHTs is very challenging. As the data is stored among nodes of corresponding hash ID, a 1-bit change of the hash function output will result in large portion of (if not all) data being assigned to a different node, causing heavy network traffic.

DISADVANTAGES OF EXISTING SYSTEM :

- ✓ Therefore, document partition typically has a higher network cost than term partition, especially when the index has a good term sparsity.
- ✓ This is not a very big issue in shared-memory or distributed servers, but does pose a challenge in P2P networks, as the nodes in P2P networks are loosely

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coupled and have much lower bandwidth. As a result, term partition is a more popular choice in P2P networks.

- ✓ To further reduce the network cost and tackle the issue of workload balance with term partition, different techniques have been proposed.

PROPOSED SYSTEM:

We propose a dynamic codebook updating method by optimizing the mutual information between the resultant codebook and relevance information, and the workload balance among nodes that manage different codeword's. In order to further improve retrieval performance and reduce network cost, indexing pruning techniques are developed. Our comprehensive experimental results indicate that the proposed approach is scalable in evolving and distributed peer-to-peer networks, while achieving improved retrieval accuracy.

We aim to achieve a fair workload among nodes, thus avoiding overloading or under loading nodes. Based on these two criteria, the codebook partitioning is updated routinely by splitting/merging codeword, thus allowing the codebook to grow/shrink in accordance to the data distribution. To minimize the cost of codebook updating, the decision whether a codeword should be split/merged is taken by its managing node individually. Finally, the updates are synchronized across the network at the end of

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each iteration. As a result, the discriminability and workload balance is optimized continuously with the churn of the P2P network.

ADVANTAGE OF PROPOSED SYSTEM:

- ✓ It is the first study to investigate scalable CBIR with the BoVW model in P2P networks.
- ✓ A novel objective function for codebook optimization in a P2P environment is proposed, which considers both the relevance information and the workload balance simultaneously.
- ✓ A distributed codebook updating algorithm based on splitting/merging of individual codeword's is pro-posed, which optimizes the objective function with low updating cost.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –IV
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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