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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

A LOCALITY SENSITIVE LOW-RANK MODEL FOR IMAGE TAG COMPLETION

ABSTRACT

Many visual applications have benefited from the outburst of web images, yet the imprecise and incomplete tags arbitrarily provided by users, as the thorn of the rose, may hamper the performance of retrieval or indexing systems relying on such data. In this paper, we propose a novel locality sensitive low-rank model for image tag completion, which approximates the global nonlinear model with a collection of local linear models. To effectively infuse the idea of locality sensitivity, a simple and effective pre-processing module is designed to learn suitable representation for data partition, and a global consensus regularizer is introduced to mitigate the risk of overfitting. Meanwhile, low-rank matrix factorization is employed as local models, where the local geometry structures are preserved for the low-dimensional representation of both tags and samples. Extensive empirical evaluations conducted on three datasets demonstrate the effectiveness and efficiency of the proposed method, where our method outperforms previous ones by a large margin.

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EXISTING SYSTEM

The advent of the big data era has witnessed an explosive growth of the visual data, which has spawned many visual applications to organize, analyze, and retrieve these images. However, user-labeled visual data, such as images which are uploaded and shared in Flickr, are usually associated with imprecise and incomplete tags. This will pose threats to the retrieval or indexing of these images, causing them difficult to be accessed by users. Unfortunately, missing label is inevitable in the manual labeling phase, since it is infeasible for users to label every related word and avoid all possible confusions, due to the existence of synonyms and user preference. The completion methods are usually founded on linear assumptions, hence the obtained models are limited due to their incapability to capture complex correlation patterns

DISADVANTAGES

- Image tag completion or refinement has emerged as a hot issue in the multimedia community.
- Locality sensitive framework essential to most partition methods, is extremely unreliable when measured by low-level features and incomplete user-provided tags.

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PROPOSED SYSTEM

propose a locality sensitive low-rank model for image tag completion. The proposed method can capture complex correlations by approximating a nonlinear model with a collection of local linear models. To effectively integrate locality sensitivity and low-rank factorization, several adaptations are introduced, including the design of a pre-processing module and a global consensus regularizer. Our method achieves superior results on three datasets and outperforms previous methods by a large margin.

ADVANTAGES:

- To relieve the risk of overfitting as well as to promote robustness of the proposed LSLR method.
- The semantic ambiguity caused by this high-frequency tag is remarkably alleviated.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

Operating system : - Windows XP.

Coding Language : JAVA

Data Base : SQL Server 2005.

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