

Active Learning For Hierarchical Text Classification

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active learning in hierarchical text classification. Moreover, we explore how to utilize the hierarchical relation to further improve active learning. Accordingly, several leveraging strategies and heuristics are devised. According to our experiments, active learning under our framework significantly outperforms the

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Active learning has been shown to reduce the training examples significantly, but it has not been applied to hierarchical text classification due to several technical challenges. In this paper, we study active learning for hierarchical text classification.

Active Learning for Hierarchical Text Classification ...

As far as we know, this is the first work that studies active learning in hierarchical text classification with promising results. Hierarchical text classification plays an important role in many real-world applications, such as webpage topic classification, product categorization and user feedback classification.

[PDF] Active Learning for Hierarchical Text Classification ...

Recently, a few works apply active learning methods to hierarchical classification. However, these methods focus on the multi-class case, and regard only leaf nodes as labels in the hierarchical tree. Chenget al: [2012] embed the label hierarchy and training data into a latent semantic space, and propose a uncertainty strategy based on the se-

Cost-Effective Active Learning for Hierarchical Multi ...

Active Learning For Hierarchical Text Classification Author:

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Active Learning for Hierarchical Text Classification - CORE

Active learning (AL) is a subfield of machine learning which addresses methods to build models with fewer, but more representative instances.

(PDF) Active learning for hierarchical multi-label ...

Active Learning, Hierarchical Classification, Label Tree Embedding 1. INTRODUCTION Obtaining labels is an expensive or time-consuming process, especially for large scale multi-class classification problems. Active learning is proposed to make the learning task more efficient [12], by intelligently choosing specific unlabeled

On active learning in hierarchical classification

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active learning is helpful. The first has to do with efficient search through the hypothesis space. Each time a new label is seen, the set of plausible classifiers (those roughly consistent with the labels seen so far) shrinks somewhat. Using active learning, one can explicitly select points whose labels will shrink this set as fast as possible.

Hierarchical Sampling for Active Learning

A digital learning space for your pupils and a toolkit for you, so that you can search, plan, allocate and assess all in one place.

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Active learning (AL) is a subfield of machine learning which addresses methods to build models with fewer, but more representative instances. Even though AL has been vastly studied, it has not been thoroughly investigated in hierarchical multi-label classification, a learning task where multiple class labels can be assigned to an instance and these labels are hierarchically structured.

Active learning for hierarchical multi-label ...

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functional through various domains.

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This paper presents a new approach to hierarchical document classification that we call Hierarchical Deep Learning for Text classification (HDLTex). HDLTex is shared as an open source tool at <https://github.com/kk7nc/HDLTex> HDLTex combines deep learning architectures to allow both overall and specialized learning by level of the document hierarchy. This paper reports our experiments with HDLTex, which exhibits improved accuracy over traditional document classification methods.

HDLTex: Hierarchical Deep Learning for Text Classification

An Active Learning Framework for Hyperspectral Image Classification Using Hierarchical Segmentation. Abstract: Augmenting spectral data with spatial information for image classification has recently gained significant attention, as classification accuracy can often be improved by extracting spatial information from neighboring pixels. In this paper, we propose a new framework in which active

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learning (AL) and hierarchical segmentation (HSeg) are combined for spectral-spatial classification ...

An Active Learning Framework for Hyperspectral Image ...

We are pleased to announce the 4th edition of the Large Scale Hierarchical Text Classification (LSHTC) Challenge. The LSHTC Challenge is a hierarchical text classification competition, using very large datasets. Hierarchies are becoming ever more popular for the organization of text documents, particularly on the Web.

Large Scale Hierarchical Text Classification | Kaggle

We investigate active learning by pairwise similarity over the leaves of trees originating from hierarchical clustering procedures. In the realizable setting, we provide a full characterization of the number of queries needed to achieve perfect reconstruction of the tree cut.

Flattening a Hierarchical Clustering through Active Learning

Abstract Most of the existing active learning algorithms assume all the category labels as independent or consider them in a "flat" structure. However, in reality, there are many applications in which the set of possible labels are often organized in a hierarchical structure.

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On active learning in hierarchical classification ...

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