Active Learning For Hierarchical Text Classi Cation

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Active Learning For Hierarchical Text
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 ex-periments, active learning under our framework significantly outperforms the

Active Learning for Hierarchical Text Classification
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.

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CiteSeerX — Active Learning for Hierarchical Text ...
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 classification
Recently, a few works applies active learning methods to hierarchical classification. However, these methods fo-cus on the multi-class case, and regard only leaf nodes as labels in the hierarchal 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, Hierarchical Classiflcation, Label Tree Em-bedding 1. INTRODUCTION Obtaining labels is an expensive or time-consuming pro-cess, especially for large scale multi-class classiflcation prob-lems. Active learning is proposed to make the learning task more e–cient [12], by intelligently choosing speciflc unla-

On active learning in hierarchical classification
Flattening a Hierarchical Clustering through Active Learning. Authors: Claudio Gentile, Fabio Vitale, Anand Rajagopalan. (Submitted on 22 Jun 2019) Abstract: 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
Hierarchical Sampling for Active Learning class labels. We describe an active learning strategy with good statistical properties, that will discover and exploit any informative pruning of the cluster tree. For instance, suppose it is possible to prune the cluster tree to m leaves (m unknown) that are fairly pure in the labels of their constituent points.

Hierarchical Sampling for Active Learning
Request PDF | On active learning in hierarchical classification | Most of the existing active learning algorithms assume all the category labels as independent or consider them in a "flat" structure.

On active learning in hierarchical classification ...
An (agglomerative) Hierarchical Clustering (HC) procedure is an unsupervised learning method parametrized by a similarity function over the items to be clustered and a linkage function that lifts similarity from items to clusters of items.

Flattening a Hierarchical Clustering through Active Learning
Based on the analyses of the questions listed above recommendations are made for the use of active learning in text classification. Ancillary issues such as computational efficiency are also considered. The structure of this paper is as follows. Section 2 first presents a comprehensive review of active learning and the reusability problem.

Active learning for text classification with reusability ...
A hierarchical active-learning framework for classifying structural motifs in atomic resolution microscopy Preprint · May 2020 with 44 Reads How we measure 'reads'

A hierarchical active-learning framework for classifying ...
In 2014 the 28,100 active, scholarly, peer-reviewed, ... This architecture is particularly important for learning time-dependent structures to include words or characters in text . Deep learning for hierarchical classification is not new with this paper, although the specific architectures, the comparative analyses, and the application to ...

HDLTex: Hierarchical Deep Learning for Text Classification
title = "On active learning in hierarchical classification", 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.

On active learning in hierarchical classification ...
Labeling text data is quite time-consuming but essential for automatic text classification. Especially, manually creating multiple labels for each document may become impractical when a very large amount of data is needed for training multi-label text classifiers. To minimize the human-labeling efforts, we propose a novel multi-label active learning appproach which can reduce the required […]

Effective Multi-Label Active Learning for Text ...
Active learning and text classification Text classification is the task of assigning one or more predetermined labels to a text/document using the information contained in the text.16Classification requires a training phase in order to learn patterns from a training set with labeled instances for which actual class membership is known.478

Active learning for clinical text classification: is it ...
active learning and an efficient algorithm for solving the related optimization problem. Sections 5 and 6 present the empirical study of batch mode active learning for text categorization and content-based image retrieval, respec-tively. Section 7 gives an empirical evaluation of two different implementations of batch mode active learning

IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, VOL ...
Active Learning in Hierarchical Classication: Ow- ing to the explosive growth in the amount of digital data, hierarchies are becoming increasingly popular to eciently organize and categorize data.

BatchRank: A Novel Batch Mode Active Learning Framework ...
We propose an active learning approach for performing hierarchical agglomerative segmentation from superpixels. Our method combines multiple features at all scales of the agglomerative process, works for data with an arbitrary number of dimensions, and scales to very large datasets.

Machine learning of hierarchical clustering to segment 2D ...
Hierarchical Sampling for Active Learning as proposed by S Dasgupta is now implemented in libact, a Python active learning libary. For the source code, see this link.