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Active Learning For
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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,

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Several leveraging
strategies and
heuristics are
devised. According to
our ex-periments,
active learning under
our framework
significantly
outperforms the

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Classification

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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.

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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

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For Hierarchical
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
applies active learning

Download Free 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

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Cost-Effective Active
Learning for
Hierarchical Multi ...
Active Learning For
Hierarchical Text
Classification Author:
www.infraredtraining.c
om.br-2020-11-12T00
:00:00+00:01 Subject:

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Keywords: active,
learning, for,
hierarchical, text,
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location(s): <http://cling.csd.uwo.ca/papers...>
(external link)

Active Learning for
Hierarchical Text
Classification - CORE
Active learning (AL) is

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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

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Classification, Label
Tree Em-bedding 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

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On active learning in hierarchical classification 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

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(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

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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

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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

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labels are
hierarchically
structured.

Active learning for
hierarchical multi-
label ...

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the site continues to
face legal issues due
to the pirated access
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articles, the site is still
functional through
various domains.

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Learning for
Hierarchical Text ...

This paper presents a
new approach to
hierarchical document
classification that we
call Hierarchical Deep
Learning for Text
classification

Download Free Active Learning (HDLTex). 1 1 1

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

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HDLTex, which
exhibits improved
accuracy over
traditional document
classification
methods.

HDLTex: Hierarchical
Deep Learning for
Text Classification
An Active Learning
Framework for
Hyperspectral Image

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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

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neighboring pixels. In this paper, we propose a new framework in which active learning (AL) and hierarchical segmentation (HSeg) are combined for spectral-spatial classification ...

An Active Learning
Framework for

Page 26/82

Download Free Active Learning Hyperspectral Image Text Classification

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.

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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

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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.

Download Free Active Learning Flattening a Hierarchical Hierarchical Text Classification

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

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Applications in which
the set of possible
labels are often
organized in a
hierarchical structure.

On active learning in
hierarchical
classification ...

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the existing active learning algorithms assume all the category labels as independent or consider them in a "flat" structure.

The two-volume set
LNAI 7301 and 7302
constitutes the
refereed proceedings

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of the 16th Pacific-
Asia Conference on
Knowledge Discovery
and Data Mining,
PAKDD 2012, held in
Kuala Lumpur,
Malaysia, in May
2012. The total of 20
revised full papers
and 66 revised short
papers were carefully
reviewed and
selected from 241
submissions. The

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papers present new ideas, original research results, and practical development experiences from all KDD-related areas.

The papers are organized in topical sections on supervised learning: active, ensemble, rare-class and online; unsupervised learning: clustering,

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Probabilistic modeling
in the first volume and
on pattern mining:
networks, graphs,
time-series and outlier
detection, and data
manipulation: pre-
processing and
dimension reduction
in the second volume.

The two-volume set
LNAI 7818 + LNAI
7819 constitutes the

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refereed proceedings
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Asia Conference on
Knowledge Discovery
and Data Mining,
PAKDD 2013, held in
Gold Coast, Australia,
in April 2013. The
total of 98 papers
presented in these
proceedings was
carefully reviewed
and selected from 363
submissions. They

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cover the general

fields of data mining
and KDD extensively,

including pattern
mining, classification,
graph mining,
applications, machine
learning, feature
selection and
dimensionality

reduction, multiple
information sources
mining, social
networks, clustering,

Download Free
Active Learning
text mining, text
classification,
Text Classification
imbalanced data,
privacy-preserving
data mining,
recommendation,
multimedia data
mining, stream data
mining, data
preprocessing and
representation.

Comprehensive
Coverage of the
Page 38/82

Download Free Active Learning Entire Area of Classification

Research on the problem of classification tends to be fragmented across such areas as pattern recognition, database, data mining, and machine learning. Addressing the work of these different communities in a unified way, Data

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Algorithms and Applications explores the underlying algorithms of classification as well as applications of classification in a variety of problem domains, including text, multimedia, social network, and biological data. This comprehensive book

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focuses on three
primary aspects of
data classification:

Methods-The book
first describes
common techniques
used for classification,
including probabilistic
methods, decision
trees, rule-based
methods, instance-
based methods,
support vector
machine methods,

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Domains-The book then examines specific methods used for data domains such as multimedia, text, time-series, network, discrete sequence, and uncertain data. It also covers large data sets and data streams due to the recent importance of the big data paradigm.

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Variations-The book concludes with insight on variations of the classification process. It discusses ensembles, rare-class learning, distance function learning, active learning, visual learning, transfer learning, and semi-supervised learning as well as evaluation aspects of classifiers.

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and 66 revised short papers were carefully reviewed and selected from 241 submissions. The papers present new ideas, original research results, and practical development experiences from all KDD-related areas. The papers are organized in topical sections on

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Supervised learning:

active, ensemble, rare-class and online;

unsupervised

learning: clustering, probabilistic modeling in the first volume and

on pattern mining:

networks, graphs, time-series and outlier detection, and data

manipulation: pre-processing and

dimension reduction

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Text Classification

Over the last two decades, researchers are looking at imbalanced data learning as a prominent research area. Many critical real-world application areas like finance, health, network, news, online advertisement, social

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network media, and
weather have
imbalanced data,
which emphasizes the
research necessity for
real-time implications
of precise
fraud/defaulter
detection, rare
disease/reaction
prediction, network
intrusion detection,
fake news detection,
fraud advertisement

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detection, cyberbullying identification, disaster events prediction, and more. Machine learning algorithms are based on the heuristic of equally-distributed balanced data and provide the biased result towards the majority data class, which is not acceptable

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Considering
Text Classification
imbalanced data is
omnipresent in real-
life scenarios and is
forcing us to learn
from imbalanced data
for foolproof
application design.
Imbalanced data is
multifaceted and
demands a new
perception using the
novelty at sampling
approach of data

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preprocessing, an
active learning
Text Classification
approach, and a cost
perceptive approach
to resolve data
imbalance. Data
Preprocessing, Active
Learning, and Cost
Perceptive
Approaches for
Resolving Data
Imbalance offers new
aspects for
imbalanced data

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Learning by providing the advancements of the traditional methods, with respect to big data, through case studies and research from experts in academia, engineering, and industry. The chapters provide theoretical frameworks and the latest empirical research findings that

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help to improve the understanding of the impact of imbalanced data and its resolving techniques based on data preprocessing, active learning, and cost perceptive approaches. This book is ideal for data scientists, data analysts, engineers, practitioners, researchers,

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Academics, and
students looking for
more information on
imbalanced data
characteristics and
solutions using varied
approaches.

Web search engines
have been adopted by
most universities for
searching webpages
in their own domains.
Basically, a user

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Sends keywords to
the search engine
and the search engine
returns a flat ranked
list of webpages.

However, in university search, user queries are usually related to topics. Simple keyword queries are often insufficient to express topics as keywords. On the other hand, most E-

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Commerce sites allow users to browse and search products in various hierarchies. It would be ideal if hierarchical browsing and keyword search can be seamlessly combined for university search engines. The main difficulty is to automatically classify and rank a massive

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number of webpages into the topic hierarchies for universities. In this thesis, we use machine learning and data mining techniques to build a novel hybrid search engine with integrated hierarchies for universities, called SEEU (Search Engine with hierarchy

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Firstly, we study the problem of effective hierarchical webpage classification. We develop a parallel webpage classification system based on Support Vector Machines. With extensive experiments on the well-known ODP (Open Directory

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Project) dataset, we

empirically demon-
strate that our

hierarchical

classification system

is very effective and

outperforms the

traditional flat

classification

approaches

significantly.

Secondly, we study

the problem of

integrating

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classification into the ranking system of keywords-based search engines. We propose a novel ranking framework, called ERIC (Enhanced Ranking by Hierarchical Classification), for search engines with hierarchies.

Experimental results

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For Hierarchical
TREC (Text REtrieval
Conference) web
search datasets show
that our ranking
system with
hierarchical
classification
outperforms the
traditional flat
keywords-based
search methods
significantly. Thirdly,
we propose a novel

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active learning
framework to improve
the performance of hi-
erarchical
classification, which is
important for ranking
webpages in
hierarchies. From our
experiments on the
benchmark text
datasets, we find that
our active learning
framework can
achieve good

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classification
performance yet save
a considerable
number of labeling e ff
ort com- pared with
the state-of-the-art
active learning
methods fo r
hierarchical text
classification.

Fourthly, based on
the proposed
classification and
ranking m ethods, we

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present a novel
hierarchical
classification

framework for mining
academic topics from
university webpages.
We build an academic
topic hierarchy based
on the commonly ac
cepted Wikipedia
academic disciplines.
Based on this
hierarchy, we train a
hierarchic al classifier

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and apply it to mine academic topics. According to our comprehensive analysis, the academic topics mined by our method are reasonable and consistent with the real-world topic distribution in universities. Finally, we combine all the proposed techniques

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together and
implement the SEEU
search engine.

According to two
usability studies
conducted in the ECE
and the CS
departments at our
university, SEEU is
favored by the
majority of participa
nts. To conclude, the
main contribution of
this thesis is a novel s

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Search engine, called

SEEU, for
universities. We

discuss the
challenges toward
building SEEU and
propose effective
machine learning and
data mining methods
to tackle them. With
extensive
experiments on well-
known benchmark
datasets and real-

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webpage data sets,
we demonstrate that
our sys- tem is very e
ff ective. In addition,
two usability studies
of SEEU in our uni
versity show that
SEEU has a great
promise for university
search.

The key idea behind
active learning is that

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For Hierarchical
Text Classification

a machine learning
algorithm can perform
better with less

training if it is allowed
to choose the data
from which it learns.

An active learner may
pose "queries,"

usually in the form of
unlabeled data

instances to be

labeled by an "oracle"

(e.g., a human

annotator) that

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already understands the nature of the problem. This sort of approach is well-motivated in many modern machine learning and data mining applications, where unlabeled data may be abundant or easy to come by, but training labels are difficult, time-consuming, or

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expensive to obtain.

This book is a general introduction to active learning. It outlines several scenarios in which queries might be formulated, and details many query selection algorithms which have been organized into four broad categories, or "query selection frameworks." We also

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touch on some of the theoretical foundations of active learning, and conclude with an overview of the strengths and weaknesses of these approaches in practice, including a summary of ongoing work to address these open challenges and opportunities. Table of

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Contents: Automating
Inquiry / Uncertainty
Sampling / Searching
Through the
Hypothesis Space /
Minimizing Expected
Error and Variance /
Exploiting Structure in
Data / Theory /
Practical
Considerations

The 3-volume set
LNAI 12712-12714

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constitutes the
proceedings of the
25th Pacific-Asia
Conference on
Advances in
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and Data Mining,
PAKDD 2021, which
was held during May
11-14, 2021. The 157
papers included in the
proceedings were
carefully reviewed
and selected from a

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total of 628

submissions. They
were organized in

topical sections as
follows: Part I:

Applications of
knowledge discovery
and data mining of
specialized data; Part
II: Classical data
mining; data mining
theory and principles;
recommender
systems; and text

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analytics; Part III:
Representation
learning and
embedding, and
learning from data.

Asia Information Retrieval Symposium (AIRS) 2008 was the fourth AIRS conference in the series established in 2004. The first AIRS

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washeld in Beijing, China, the second in Jeju, Korea, and the third in Singapore.

The AIRS conferences trace their roots to the successful Information Retrieval with Asian Languages (IRAL) workshops, which started in 1996. The AIRS series aims to bring together

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researchers and developers to exchange new ideas and the latest results in information retrieval.

The scope of the conference encompasses the theory and practice of all aspects of information retrieval in text, audio, image, video, and multimedia

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data. We are pleased to report that AIRS 2006 received a large number of 144 submissions.

Submissions came from all continents: Asia, Europe, North America, South America and Africa. We accepted 39 submissions as regular papers (27%) and 45 as short

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papers (31%). All
submissions
underwent double-
blind review. We
are grateful to all the
area Co-chairs who
managed the review
process of their
respective area
efficiently, as well as
to all the Program
Committee members
and additional
reviewers for their

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