

Multipipes: Exploring Disjunctive Classifications in Hyperpipes

[In an exciting manner]^{*}

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ABSTRACT

This paper needs a good abstract.

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Keywords

HyperPipes, disjoint sets, \LaTeX , multiple classes, indecisive learners

1. INTRODUCTION TO HYPERPIPES

Background on hyperpipes, description of algorithm, benefits, trade-offs, relevant applications (spare datasets)

1.1 Pseudocode for hyperpipes

Pseudocode!

1.2 The Problem with HyperPipes

On non-sparse datasets you get lots of ties, bra'h.

1.3 Patching HyperPipes

Plumbing reference

Explain appending fix

2. NARROWING VS. CLASSIFYING

Why narrow when you can classify?

3. PRELIMINARY RESULTS

Description of results

- incremental learning

^{*}A full version of this paper is available as *Author's Guide to Preparing ACM SIG Proceedings Using \LaTeX 2_ε and BibTeX* at www.acm.org/eaddress.htm

- batch learning
- weighted distance
- centroids via overlap
- increasing alpha

3.1 Disjoint Learning

nb vs. multipipes on >1 dataset (incremental) nb vs. multipipes on >1 dataset (batch) (see menzies.us/iccle/?nb chart for dataset scores comparison)

size of sets returned relative to number of total classes

3.2 Breaking the Ties

Description of weighted distance measure

graph of weighted distance classification accuracy

Description of centroid acquisition from overlap

graph of centroid learning results

3.3 Casting a wider net

Description of alpha value

Purpose of alpha value for expanding class set

Results of expanding alpha (graph)

Analysis of growth in enclosure with alpha changes

4. PRELIMINARY CONCLUSIONS

WE CONCLUDE

4.1 References

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