

Homework 4

Overview

Being able to search for and read academic publications is useful for learning about data mining techniques (and for doing your final projects). In this assignment, you will find and describe academic publications related to classification.

Objectives

- Practice using academic search engines
- Gain experience reading academic papers
- Describe, at a high level, the findings presented in an academic paper

Grading

- Uploaded requested files, 5%
- File is properly formatted, 5%
- Writing is clear, 5%
- Part A, 45%
 - For each of the three papers:
 - * 1: 5%
 - * 2: 5%
 - * 3: 5%
- Part B, 40%
 - 1: 10%
 - 2: 20%
 - 3: 10%

Deliverables

- A .pdf file with your responses, formatted as in my example.

Formatting

Include headings for each part (Part A and Part B). Clearly indicate which question each of your responses belong to, and for Part A, clearly indicate each paper (paper 1, paper 2, and paper 3). See the example formatting that is posted on blackboard as an attachment to this assignment.

You do not need to use R markdown to generate your pdf for this assignment. However, your formatting should mirror the format of my example file.

Part A. Identify relevant publications

For Part A, use an academic search engine (e.g., google scholar) to find three publications related to classification that you think might be interesting. Each of the chosen papers should be a scholarly publication; they should not be, for example, news articles, promotional materials, or blog posts.

For each of the three papers you find, provide the following:

1. Citation information (at minimum include authors, year published, title, and journal/conference/book published in)
 - Note that I must be able to find your paper using your citation information
2. Abstract
3. How did you find the paper?

Part B.

For Part B, choose one of the three papers you found for Part A. Read the paper to the best of your ability. It's okay if you don't fully understand everything in the paper.

Answer the following questions. Your responses should be in complete sentences. None of your responses need to be more than a paragraph, but it should be clear that you have read and made an effort to understand the chosen paper.

1. Why did you choose to read this paper?
2. In your own words (1 - 2 paragraphs), what is the paper about?
 - E.g., what are the major results, the problem being solved, techniques used, etc.
3. To the best of your understanding, what classification algorithms are discussed and/or used in the paper?