

## Literature Review Term Project

### Task

The aim of this project is to acquaint you with literature surveying and making a presentation on a topic related to data mining. The topics offered are in relation to the topics we have covered in class this semester and are intended to expand your horizon of the subject.

You are expected to make a thorough survey regarding the topic assigned to you and make a brief in-class presentation. Your survey should be based on referenced text such as books, journal articles, conference papers, on-line summaries etc.

### Report

Your report should be an 8-10 page summary of the topic under consideration. The content of the summary should be extracted from the documents you have collected and read and should reflect your own understanding of the subject. That means that all text must be written in your own words.

The report must be organized in subsections and should include at least the following:

- The nature of the subject discussed (i.e. what is discussed).
- The significance of the subject.
- The historical development of research (and/or practical) work in the field, major accomplishments (milestones), on-going research (state-of-the art).
- A full list of references for the resources used in preparing this summary.

### Presentation

You will be asked to make a 6 minute (including questions) oral Power Point presentation of your work. The slides should cover the most important aspects of your summary.

### Topics

- Mining Frequent Patterns, Associations, and Correlations
- Association Rules and Sequential Patterns
- Data Warehouse and OLAP
- Classification and Clustering
- Mining Sequence Patterns in Transactional Databases
- Mining Data Streams
- Mining Time-Series Data
- Graph Mining
- Social Network Analysis
- Multi-relational Data Mining
- Spatial Data Mining
- Multimedia Data Mining
- Text Mining
- Mining the World Wide Web

### Choosing a Topic

You are already assigned a topic randomly. Please check the topic assigned to you from the excel sheet on the web site.

**Grading**

This project is worth 10% of your CMPE558 course grade. (5% for report + 5% for oral presentation). This is an individual work and you will be solely on your individual performance.

**Schedule:**

- Assigned date: December 3, 2018.
- Report due date: December 17, 2018 in class (it doesn't matter which day your presentation is). There will be a 10% penalty applied to your grade for every day that it is not turned in.
- Oral presentations: Classroom hours from December 17 to December 28, 2018.  
Your presentation date is randomly assigned.

**What to turn in**

- Your report.
- If you are late, you may drop your report off at my pigeon box at the secretary's room if I am not around.

**Academic Honesty**

As stated in the CMPE558 Course outline:

"All work submitted must be of your own. You are allowed to discuss solutions to programming assignments with your friends but you must not share codes or ideas in detail. In any case you must acknowledge the person you have shared ideas with in name and in writing. For programming assignments you are normally permitted to use code that is publicly available but it must be properly acknowledged and referenced. For all written work, you must quote (using quotation marks " ") any sentences taken from other published material. For ideas used from other written sources, the source must be properly referenced. Plagiarism is a type of cheating (if you are not sure what is considered as plagiarism, please ask) and it will be dealt accordingly. It will result in a final course grade of "F" and may be referred to the EMU disciplinary committee."