CMPT 318 - D100 Special Topics in Computing Science

Instructor(s): TBA

SFU Burnaby

Calendar Objective/Description:
Special topics in computing science at the 300 level. Topics that are of current interest or are not covered in regular curriculum will be offered from time to time depending on availability of faculty and student interest.

Instructor's Objectives:
Text analytics as a sub-domain of data mining, the role of corpus linguistics, types, tokens, n-grams and parts-of-speech, readability, sentiment analysis and text classification.

The rise of Big Data and the recognized potential of data mining and machine learning, have increased research attention on collections of text as a readily available data type. In this course, students will be introduced to concepts and techniques for textual analysis, both as a basis for simple text mining and as input to text classification problems. Topics will include the roles and application of corpora, Unix-based techniques for quantitative analyses of textual data, part-of-speech tagging, document forensics, readability and sentiment analysis.

* Electronic readings will be assigned.

Prerequisites:
CMPT 225. Additional prerequisites to be determined by the instructor subject to approval by the undergraduate program chair.

Topics:
- The nature of textual analysis
- Corpus linguistics
- Words, types and tokens
- Working with n-grams
- Investigating a kidnapping
- Varieties of words
- Readability
- Sentiment analysis
- Text classification

Grading:
Midterm exam 30%; Term paper 20%; Final exam 50% (tentative).

Academic Honesty Statement::
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student...
Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).