3804ICT: Data Mining

3031ICT/7031ICT: Applied Data Mining

Lecture 12: Revision and Project Presentation

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School of Information and Communication Technology

Final Exam Introduction

- Time: 5:00 pm, Saturday 23/10/2021
- Location: Online Exam (Learning@Griffith -> Assessment)
- 10 mins reading time and 120 mins exam.
- Open book, and Scientific calculator is permitted.
- Totally 100 marks
- Section I: Short answer questions
  - Question 1 set: Briefly explain some concepts
  - Question 2 set: Answer questions
- Section II: Problem solving questions (several question sets)
  - Use algorithms to solve problems.

Road Map of Data Mining

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- L1. An Overview of Data Mining
- L2. Explore Data and Pre-process Data
- L3. Data Warehouse and OLAP
- L4. Mining Frequent Patterns I
- L5. Mining Frequent Patterns II
- L6. Machine Learning in Data Mining
- L7. Outlier Detection
- L8. Time Series and Sequential Data Mining
- L9. Text Database Mining
- L10. World-Wide-Web Mining
- L11. Data Mining on Information Networks

Important Topics

- Apriori Algorithm for frequent pattern mining
- Frequent Pattern-Growth (FP-Growth) Algorithm for frequent pattern mining
- Precision, Recall, and F1-Score for measurement
- Decision Tree / Naïve Bayesian Classifier / KNN for prediction
- Estimation of Seasonal Variations for time series mining
- Generalised Sequential Pattern (GSP) Algorithm for sequential pattern mining
- Collaborative Filtering for recommender systems

Course Feedback and Survey

- Visit http://www.griffith.edu.au/experience and leave your valuable feedback about this course content and teaching team to help us improve the course in future.

Thank You!

Have a question?