CMPSC 310
Artificial Intelligence
Fall 2018
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Exam 1 - Review Sheet

The second exam will be during the class session on Thursday, November 1, starting at 11:00 am. The exam will be available and should be taken online.

The exam will be open book and notes, including your class notes, my class notes and hand outs, but you can not use anything that has been printed from the Web or access anything through the Web during the exam, other than the Google link, course or book website and the GitHub repository.

Content Covered
This exam covers material primarily found in FCA Chapters 6.1, 9.1-9.5, 10.1-10.4, and Supplemental Practical OpenCV Chapters (available in the class repository). The slides should be a good study guide for the material that you are responsible for. In the addition to the content covered in the slides, you should also be comfortable using the tools explored in class and/or lab sessions.

Exam Format
The exam will consist of ten questions consisting of a mixture of the following types of questions:

- Multiple choice

- Short answer (provide 2-3 sentence explanation or definition of terms/concepts)

- Problem solving (given a stated problem, find a solution (for example, trace through an algorithm by hand and produce an answer))

- Program analysis (given a program/model, run it and obtain an output to answer the question)

Material (aka Things to Know)

- Learning Overview.

- Classification problem: SVM, Decision Trees.

- General understanding of cascades.

- Object/face detection/recognition.

- Planning Overview.

- Classical planning (STRIPS).

- Preferences, lotteries, utility.

- Planning under uncertainty overview.

- Decision network, MDP, policy.

- Overview of game development, Unity.