

ETGG4803

Lab6: **Genetic Algorithms**

Points: **45**

Assigned: **10/12/2017**

Due: **Batch #2 (10/31/2017) [last one in this batch]**

Tasks:

1. Choice A
 - a. **(30 points)** Come up with an interesting problem. The job-shop is the base-line. Express your guesses as “entities” and have a way to visualize them.
 - i. If you plan to do something besides the job-shop, make sure you run it by Jason.
 - b. **(15 points)** Implement the genetic algorithm framework for your problem.
 - c. **(15 points)** Compare GA to another similar approach (SA, or gradient descent)
2. Choice B
 - a. **(65 points)** Come up with a Genetic Programming framework and tackle an interesting problem.
 - i. Make sure to work with Jason on this.