Assignment 4: Find Novel Uses of Genetic Algorithms (opt)

Identify at least 3 novel (meaning -- new, not existing on the net!) real-world (meaning, practical!) problems and how to solve them using Genetic Algorithms. Specifically, for each of the problems -- do the following:

* Describe the problem
* Describe its objective function / fitness function
* Formulate the objective or fitness function mathematically or algorithmically
* Describe your chromosome representation and your reasoning behind choosing it
* Describe your cross-over and mutation operators and the reasoning behind them
* Describe your selection strategy and the reasoning behind it
* What Python or Matlab packages can you use to implement this?

BONUS Marks: Implement (code) your solution for at least one of the problems

Due: Thursday, August 3, 2017 in class