

CSCI3405

Lab 2 – structure of Genetic Algorithms

Using Matlab, check the Demo found in the *GAdemo* folder in *mgongora* in your **L:** drive, The *Gas_Demo.m* file is a matlab program for a genetic algorithm (Genetic Paradigm, as explained in the previous lecture) that solves a simple simultaneous equation problem:

Analyse the program source and identify the main components of the algorithm (as seen in the past 2 lectures). Identify in detail:

- The Structure of the Chromosome.
- The way in which the initial population is created.
- The way in which fitness is measured.
- How the **Next Generation** is created and how the different **Genetic Operators** are applied.
- The termination Criteria.

➔ Describe and explain the above parts in your **portfolio**, so that you provide a detailed description of the configuration of this particular problem being solved using a GP.

➔ Record your conclusions in your **portfolio**.

MAG