SO

We have groups of 10 robots called fleets. Any fleet(10 robots) has one of three variations. D could be done.

Variations:

|  |  |  |
| --- | --- | --- |
|  | **Morphology** | **NN** |
| **A** | Homogenous | Homogenous |
| **B** | Homogenous | Heterogenous |
| **C** | Heterogenous | Heterogenous |
| **D** | Heterogenous | Homogenous |

Each fleet is composed of 10 **Champions**

**Champion:** The winner(most fit) robot from a parallel hill climber run on a training environment.

In A the best of the 10 is simply copied 10 times.

We expose the fleets to a new environment and record the fitness of the best individual.

Repeat 30 times until you have 30 values for A and 30 values for B. (will end up comparing each with each)

A picture containing text, shoji, crossword puzzle, clipart

Description automatically generated

In this example A> B =

|  |  |  |
| --- | --- | --- |
| **Trial** | **Fitness** | |
|  | **A** | **B** |
| **1** | 1.67 | 1.62 |
| **2** | 1.27 | 1.32 |
| **3** | 1.04 | 1.93 |
| **4** | 0.94 | 1.90 |
| **5** |  |  |
| **6** |  |  |
|  |  |  |

A single run would fill out trial 1 for both A and B