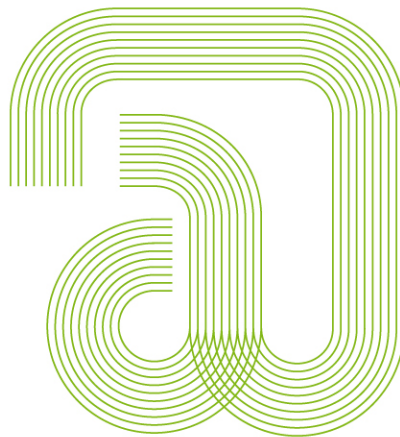


Universidade de Vigo

# Evolutionary Computation – Lab-Session 5



Escola Superior de Enxeñaría Informática  
Edificio Politécnico  
Campus universitario  
32004 Ourense

<http://esei.uvigo.es>  
<mailto:formella@uvigo.es>



Referencia: 1.0  
Documento: labs-ec  
Fecha: February 22, 2023  
Páginas: 2

Remind we have fixed the due dates for the second homework as annouced already:

- **March 18th** for the particle swarm optimization for real-valued functions (Schaffer and Rosenbrock) and the TSP problem.

## 1. Fifth Week

**Objectives:** Start to work with particle swarm optimization, on the same problems as already used and with the Guofei-package.

1. Implement and run (using the Guofei-package) the minimization of the Schaffer-function and 4d-Rosenbrock function. You can use the examples given in the package as baseline. Experiment with the settings of the free parameters and argue about your findings.
2. Again calculate simple statistics (such as average, mean, and standard deviation) regarding the best values found by your Monte Carlo runs.

Use a python notebook to implement, execute, and document your work.