

# Implementation



NetworkX  
Network Analysis in Python

# Implementation

## Details

- Library functions have been used whenever possible.
- A new custom class has been defined in order to deal with the custom weight function used in Algorithm WD. This new class inherits from `tuple` and implements addition and comparison as described in the paper.
- Time complexity has been assessed with the library `big_o` ([https://github.com/pberkes/big\\_O](https://github.com/pberkes/big_O)), which just measures the running time for different values of  $n$  and then fits a set of different time complexity classes, in order to find the best one.
- Space complexity has been assessed analytically, due the absence of a Python library able to perform an empirical analysis.