

Green Mathematics for Machine Learning

Evolutionary Routes

Lesson 1: Paths and Graphs, Worksheet 1

1) There are five airports

- Abu Dhabi (A)
- Berlin (B)
- Copenhagen (C)
- Dublin (D)
- Edinburgh (E)

A person can fly between Abu Dhabi and Berlin for £120.

A person can fly between Abu Dhabi and Edinburgh for £160.

A person can fly between Berlin and Copenhagen for £40.

A person can fly between Berlin and Dublin for £90.

A person can fly between Copenhagen and Edinburgh for £100.

A person can fly between Dublin and Edinburgh for £70.

Draw a graph representing flights between the airports and their costs.

2) Write the adjacency matrix for the airports in (1).

3) What is the cheapest path to get from Abu Dhabi to Dublin?
