

Projet #3

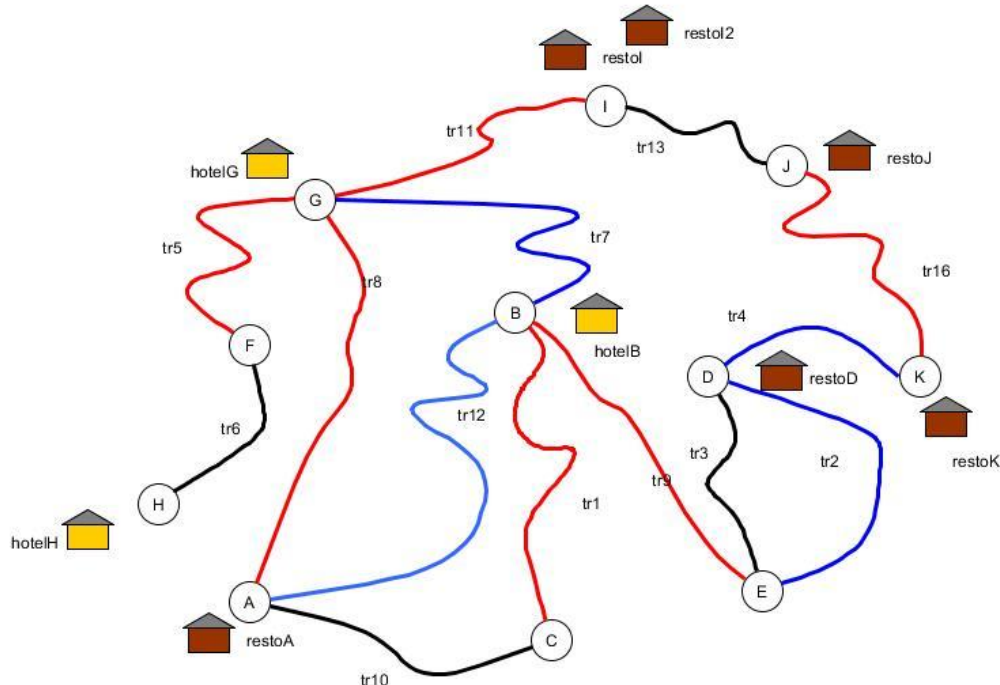
Ontological Hiking (continuation)

1. Query classes in SWRL

Using the OWL vocabulary defined for Project 2 redefine the additional "query" classes in SWRL:

1. The places that have at least one restaurant
2. The places from which one can reach a restaurant by following one trail¹
3. The places from which one can reach a restaurant by following any number of trails
4. The places that have a hotel and from which a beginner hiker can reach a restaurant by following any number of trails
5. The restaurants that are on a circuit made of at least two trails
6. The restaurants from which one can reach another restaurant by following a path that only passes through places that have restaurants
7. The hotels that can be reached from place p only by good hikers
8. The hotels that can be reached from place $p1$ by following two different routes of length 2

Define the instances according figure 1 below



Show that the reasoner infers the expected instances in the query classes.

¹ Trails can be followed in both direction: from start to end or from end to start.

