

OWL + SWRL rules

An OWL ontology contains the following class hierarchy, properties and individuals:

Classes:

Road
 LongRoad
 WindingRoad

Properties:

hasLength
hasTurns

Individuals:

r1, r2, r3 (of the class Road)

1. Define the roads r1, r2, r3 with the following values:
r1: length = 18 and number of turns = 35
r2: length = 30 and number of turns = 75
r3: length = 22 and number of turns = 18
2. Define a long road as a road with length > 20
3. Define a winding road as a road with turnrate (number of turns/length) > 1.9