KG Improvement: Alignment

Credit

This assignment is identical to the one in the City uni course.

Ontology Alignment (Task OA)

Perform a basic alignment between the pizza.owl ontology and the created ontology. This alignment is important to perform SPARQL queries using the vocabulary of the pizza.owl ontology instead of the created ontology.

Subtask OA.1 Compute equivalences between the entities of the input ontologies. Save the equivalences as triples in turtle format (.ttl). Tip: use owl:equivalentClass and owl:equivalentProperty as predicates of the equivalence triples (50%).

Subtask OA.2 Repeat Subtask QA.1 using other two matching systems (e.g. AML and LogMap) . (30%)

Subtask OA.2.a Try to generate a reference mapping and compute Precision and Recall for matching results (your solution, AML, and LogMap)

Subtask OA.3 Correctness of the code and discussion of the used alignment techniques (20%).