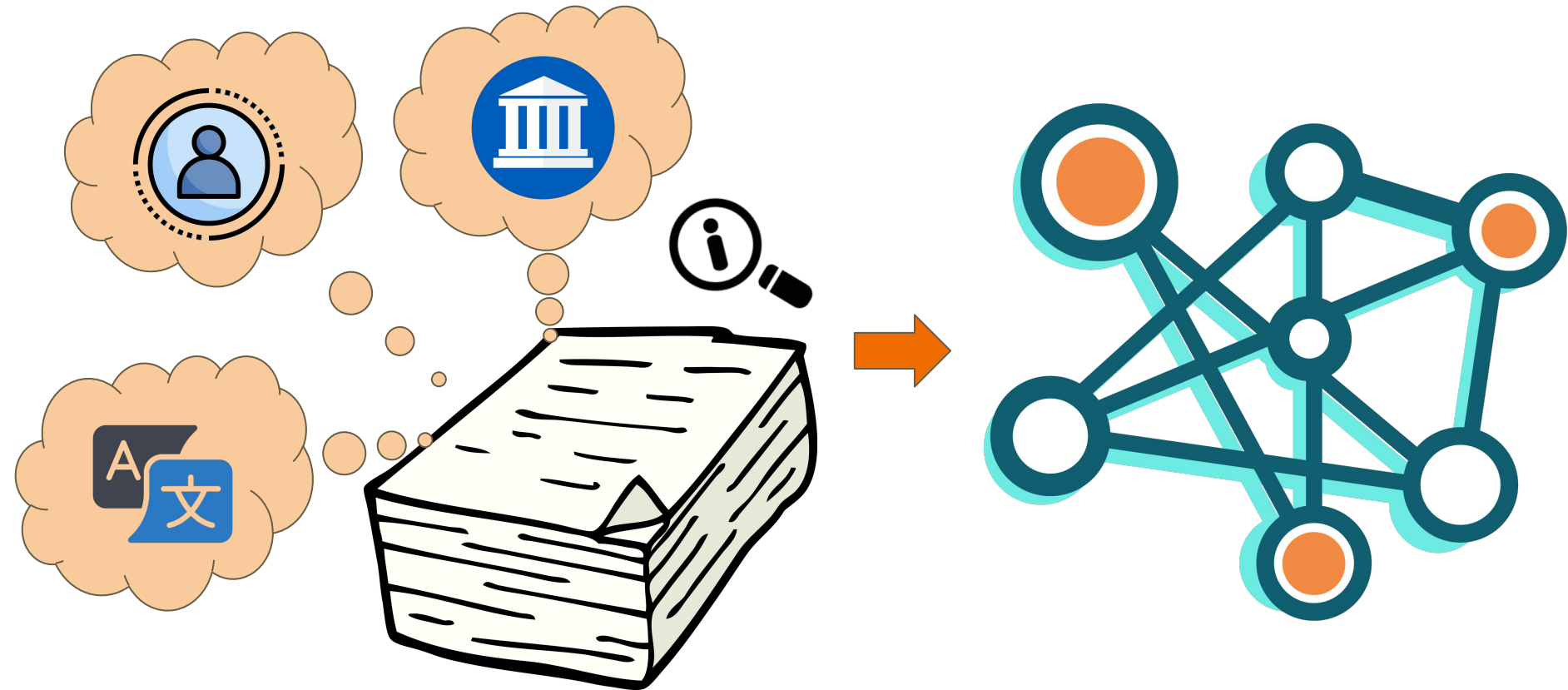

KNOWLEDGE GRAPH

— Yimin Zhou, Rubén Cid Costa, Rodrigo Durán Andrés —

Open Science and Artificial Intelligence in Research Software Engineering
2024 UPM - ETSIINF

INTRODUCCIÓN



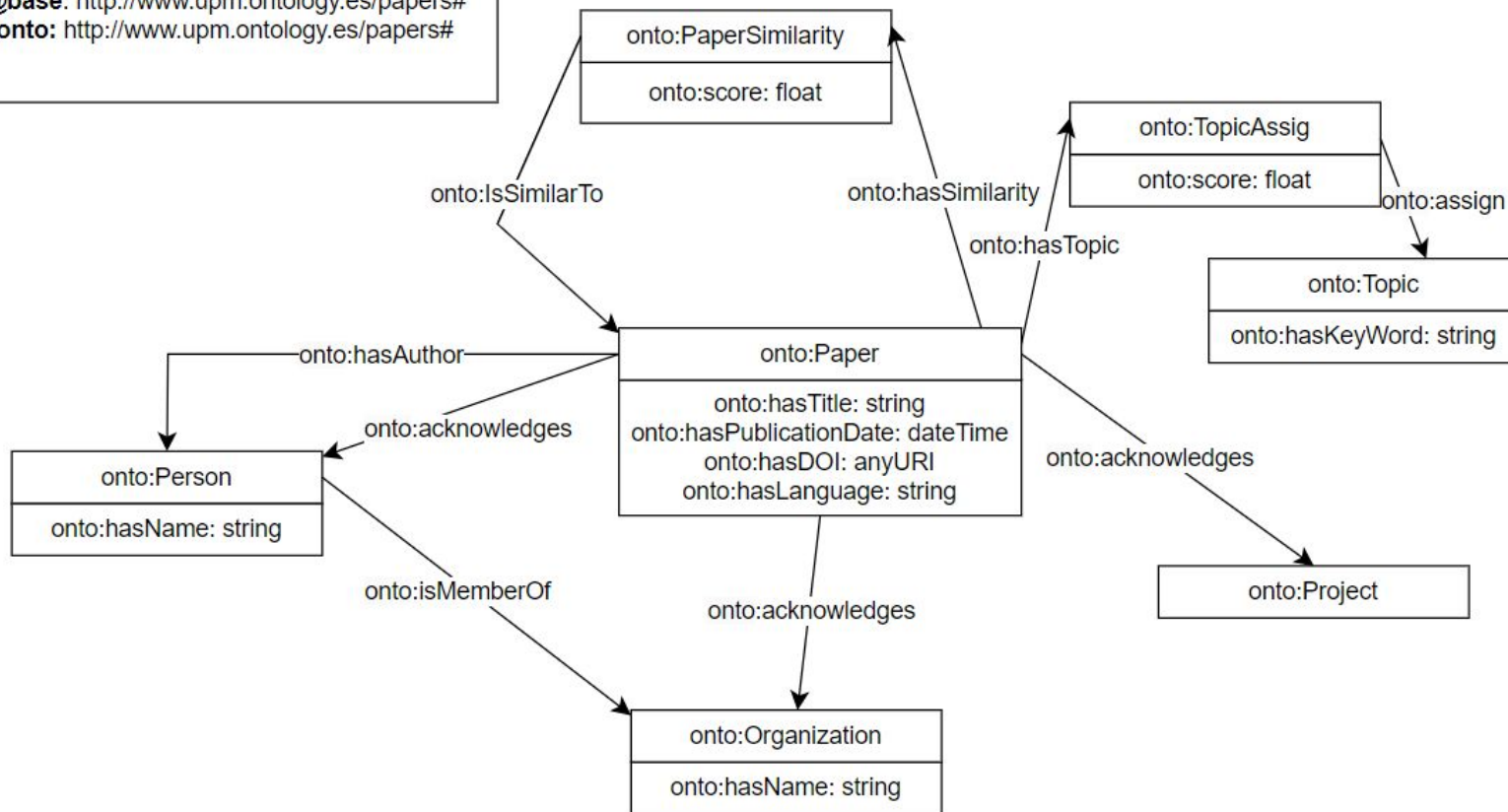
FUENTES DE DATOS



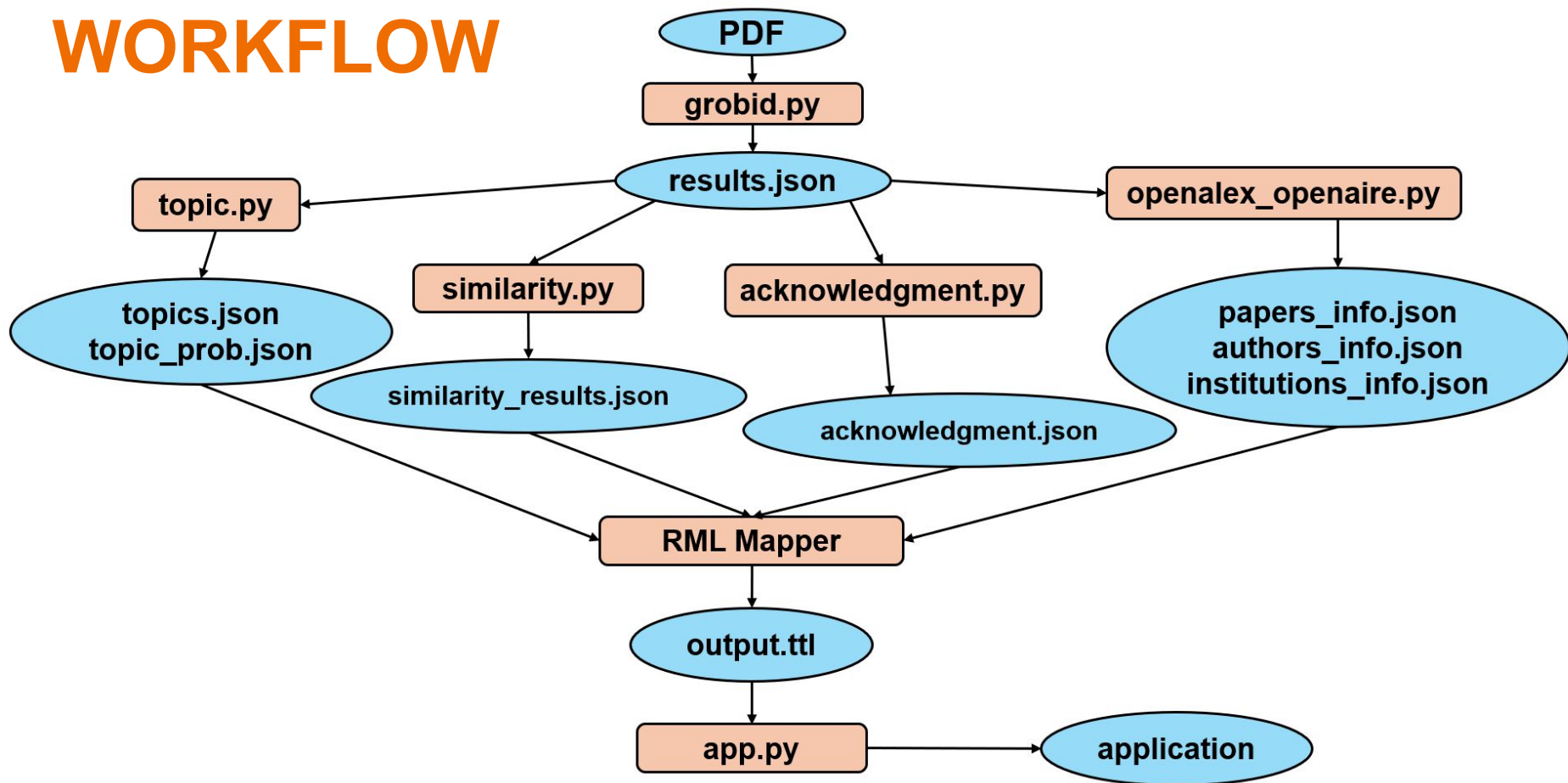
zenodo

ONTOLOGÍA

@base: <http://www.upm.ontology.es/papers#>
onto: <http://www.upm.ontology.es/papers#>



WORKFLOW



FUENTES EXTERNAS



OpenAlex

Autores

Organizaciones

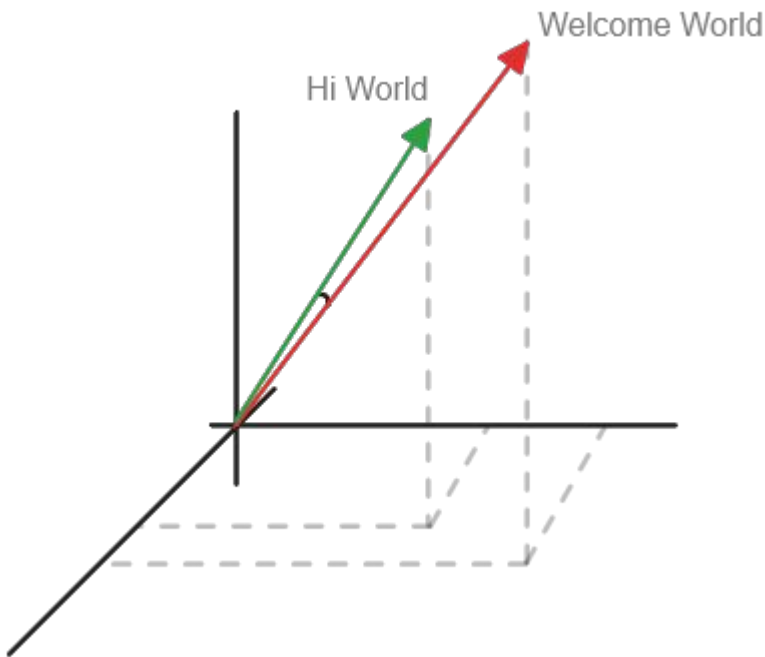
**Fecha
publicación**

DOI

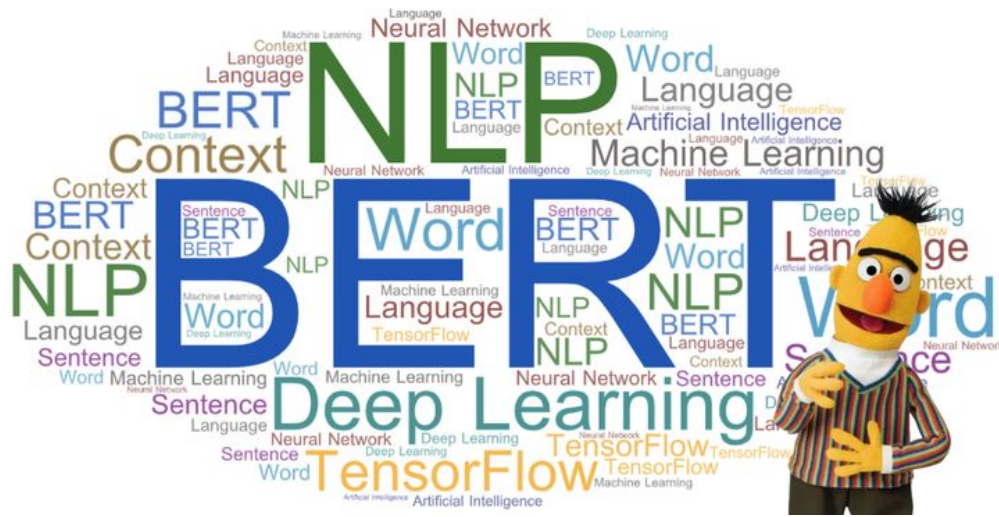
Idioma



SIMILARIDAD PUBLICACIONES



Hugging Face



TOPIC MODELLING

LDA

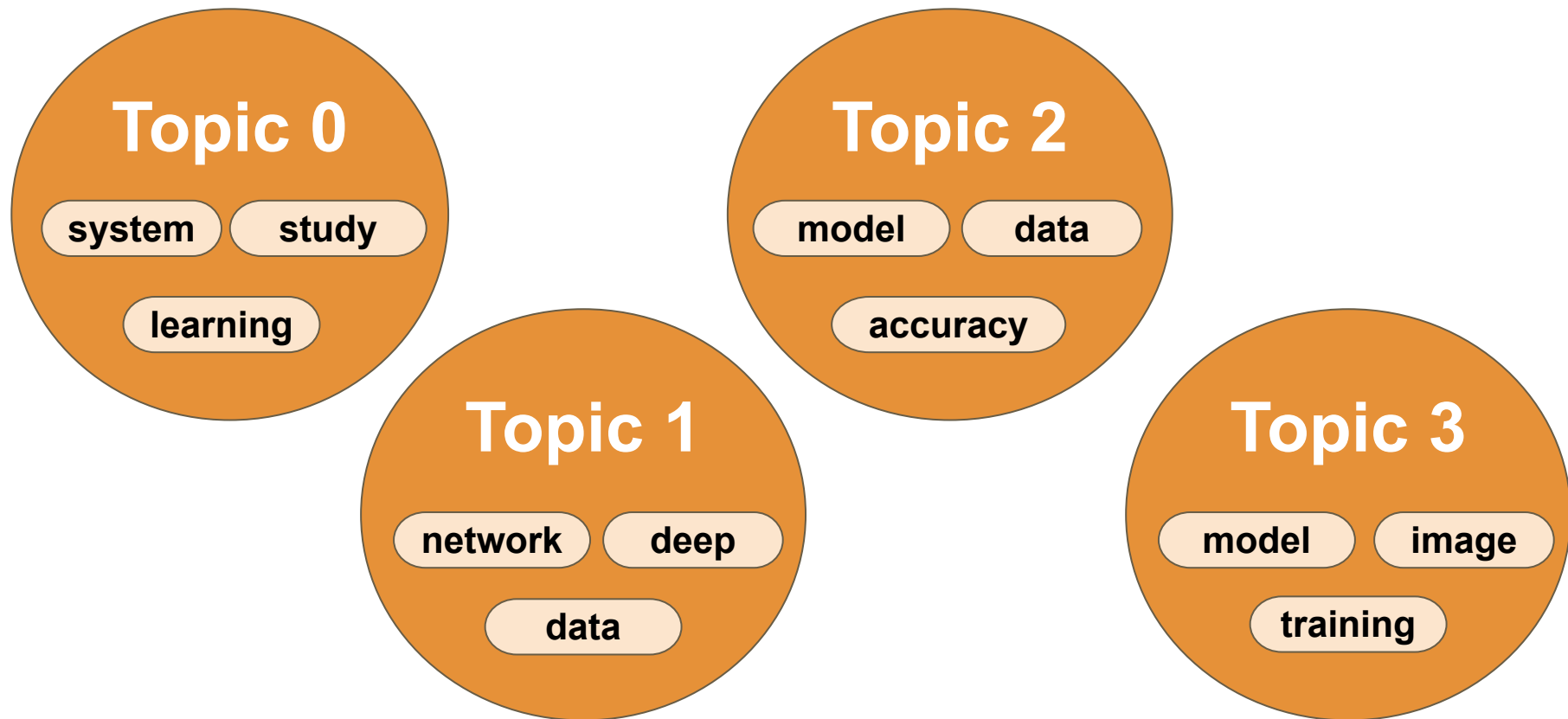
**2 - 10
topics**

**Coherencia
CV**

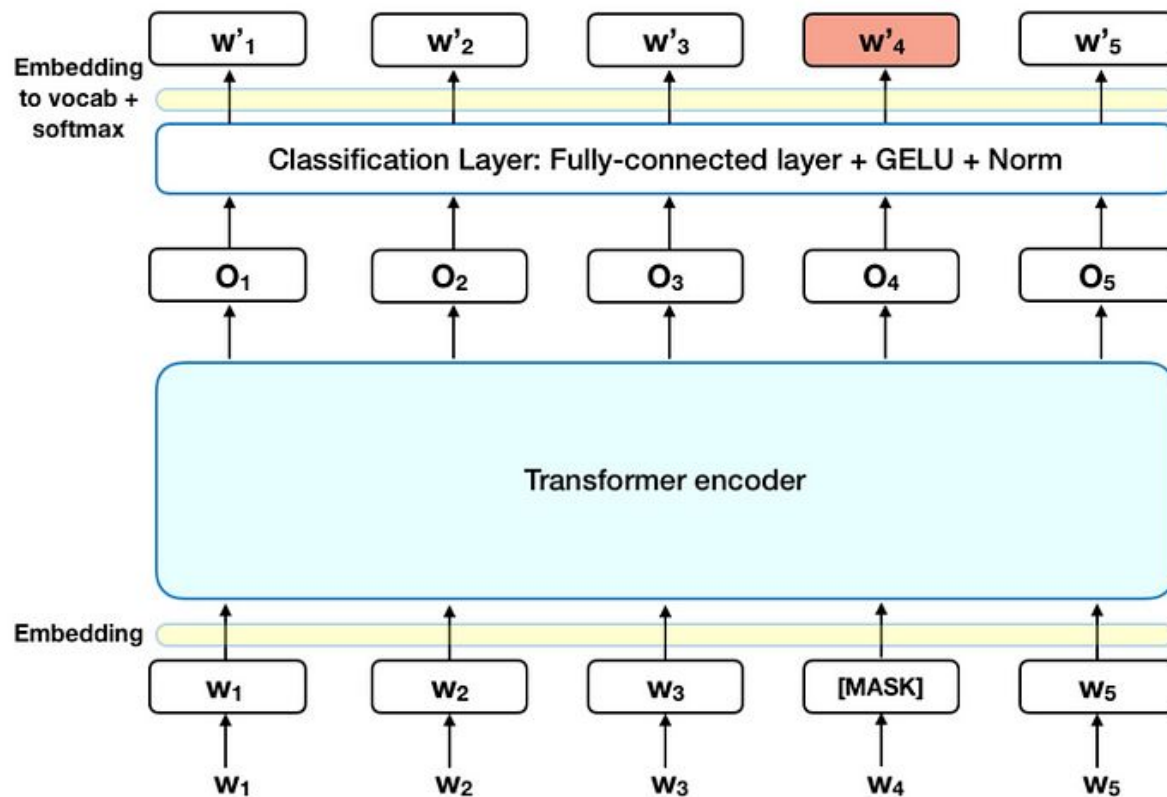
0.43

**4
topics**

TOPIC MODELLING



MODEL NER

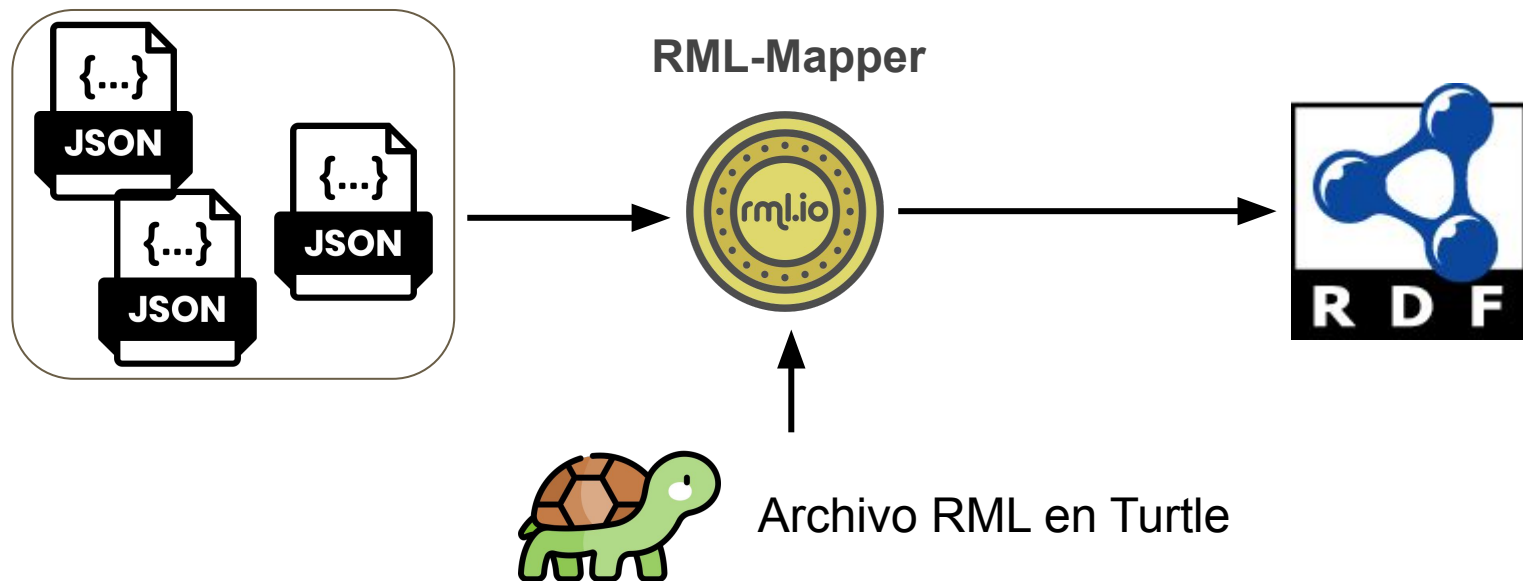


BERT BASE NER



Metric	PER	ORG
Precisión	0.95	0.88
Recall	0.50	0.50
F1-Score	0.66	0.64

RML Mapper



BUENAS PRÁCTICAS



DEMO

Consulta SPARQL

Consulta Query

[Sobre Nosotros](#)

```
PREFIX onto: <http://upm.ontology.es/papers#>
SELECT ?sub ?obj WHERE {
  ?sub onto:hasName ?obj .
} LIMIT 10
```

Enviar consulta

sub	obj
https://papers.knowledgegraph.org/v1/author/A_Lenardic	A. Lenardic