NERD: A Framework for Unifying Named Entity Recognition and Disambiguation Extraction Tools

WHAT IS NERD?

NERD is a web framework which unifies 10 popular named entity extractors available on the web.

NERD ONTOLOGY

One of the differences among these NE extractors is the taxonomy/ontology used to classify entity types. We aligned the classes from the different taxonomies according to their descriptions and we computed the class frequency distribution. We included a concept in the NERD ontology if there were at least three extractors that used it.

EVALUATION

We performed a quantitative experiment to validate some alignments including in the NERD ontology. We collected 1000 news articles of The New York Times from 09/10/2011 to 12/10/2011 and we performed the extraction of named entities with 6 tools supported by NERD.

REFERENCES


ACKNOWLEDGMENT

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CONTACTS

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NERD REST API

Get, POST, PUT methods enable to fetch, submit or modify a plain text, a URI or a PDF file

NERD Web User Interface

1. launch extraction, visualize results, evaluate precision of the NERD task [1]
2. get an API key to access programmatically to the NERD REST API [2] and have access to a minimal user dashboard

NERD INTERFACES

NERD REST API²

/user: GET, POST methods enable to fetch account details and to insert a new user to the NERD framework

/annotation/[extractor]: POST drives the annotation of a resource. The parametric URI allows to pilot the extractors supported by NERD

/entities: [{
  "entity" : "Tim Berners−Lee",
  "type" : "Person",
  "uri" : "http://dbpedia.org/resource/Tim_berners_lee",
  "nerdType" : "http://nerd.eurecom.fr/ontology#Person",
  "startChar" : 30,
  "endChar" : 45,
  "confidence" : 1,
  "relevance" : 0.5
}]

1 http://nerd.eurecom.fr/
2 http://nerd.eurecom.fr/api/application.wadl

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