

Appendix B

RDF schema

The following RDF Schema establishes the semantics of ontologies of records. This schema defines classes and imposes restrictions on what can be stated to represent these ontologies in RDF language.

```
<?xml version="1.0"?>
<!DOCTYPE rdf:RDF [
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#">
]>

<rdf:RDF

  xml:base="http://www.utm.mx/~sigepr/
  recursos/ontologyofrecords/ontologyofrecords"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">

  <rdfs:Class rdf:ID="OntologyOfRecords"/>
```

```
<rdfs:Datatype rdf:about="&xsd:date"/>
<rdfs:Datatype rdf:about="&xsd:string"/>
<rdfs:Datatype rdf:about="&xsd:integer"/>
<rdfs:Datatype rdf:about="&xsd:anyURI"/>

<rdfs:Property rdf:ID="hasAlgorithm">
  <rdfs:domain rdf:resource="#OntologyOfRecords"/>
  <rdfs:range rdf:resource="#algorithm"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Cluster" />

<rdfs:Property rdf:ID="hasCluster">
  <rdfs:domain rdf:resource="#OntologyOfRecords"/>
  <rdfs:range rdf:resource="#Cluster"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Label"/>

<rdfs:Property rdf:ID="hasLabel">
  <rdfs:domain rdf:resource="#Cluster"/>
  <rdfs:range rdf:resource="&xsd:string"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Level"/>
```

```
<rdfs:Property rdf:ID="hasLevel">
  <rdfs:domain rdf:resource="#Cluster"/>
  <rdfs:range rdf:resource="&xsd;integer"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Record"/>

<rdfs:Property rdf:ID="hasRecord">
  <rdfs:domain rdf:resource="#Cluster"/>
  <rdfs:range rdf:resource="#Record"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Title"/>

<rdfs:Property rdf:ID="hasTitle">
  <rdfs:domain rdf:resource="#Record"/>
  <rdfs:range rdf:resource="&xsd;string"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Subject"/>

<rdfs:Property rdf:ID="hasSubject">
  <rdfs:domain rdf:resource="#Record"/>
  <rdfs:range rdf:resource="&xsd;string"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Description"/>
```

```
<rdfs:Property rdf:ID="hasDescription">
  <rdfs:domain rdf:resource="#Record"/>
  <rdfs:range rdf:resource="&xsd:string"/>
</rdfs:Property>

<rdfs:Class rdf:ID="Identifier"/>

<rdfs:Property rdf:ID="hasIdentifier">
  <rdfs:domain rdf:resource="#Record"/>
  <rdfs:range rdf:resource="&xsd:string"/>
</rdfs:Property>

</rdf:RDF>
```