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Anexo A

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-rdfs/person.rdfs>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#">
  <!ENTITY courses "http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#">
  <!ENTITY aulanet "http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/aulanet.rdfs#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xml:base="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#">

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

  <rdfs:Class rdf:ID="Trainee">
    <rdfs:subClassOf rdf:resource="#Person"/>
  </rdfs:Class>
  <rdfs:Class rdf:ID="Employee">
    <rdfs:subClassOf rdf:resource="#Person"/>
  </rdfs:Class>

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

  <rdf:Property rdf:ID="requires">
    <rdfs:domain rdf:resource="#Person"/>
    <rdfs:range rdf:resource="&aulanet;Competency"/>
  </rdf:Property>

  <rdf:Property rdf:ID="hasCoursed">
    <rdfs:domain rdf:resource="#Person"/>
    <rdfs:range rdf:resource="&courses;Course"/>
  </rdf:Property>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-rdfs/course.rdfs>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#">
  <!ENTITY aulanet "http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/aulanet.rdfs#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xml:base="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#">

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

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

  <rdf:Property rdf:ID="price">
    <rdfs:domain rdf:resource="#Course"/>
    <rdfs:range rdf:resource="&xsd:double"/>
  </rdf:Property>

  <rdf:Property rdf:ID="develops">
    <rdfs:domain rdf:resource="#Course"/>
  </rdf:Property>

</rdf:RDF>
```

```
<rdfs:range rdf:resource="aulanet;Competency"/>
</rdf:Property>

<rdf:Property rdf:ID="preRequisite">
  <rdfs:domain rdf:resource="#Course"/>
  <rdfs:range rdf:resource="#Course"/>
</rdf:Property>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-rdfs/aulanet.rdfs>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [<!ENTITY xsd "http://www.w3.org/2001/XMLSchema#">]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xml:base="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/aulanet.rdfs#">

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

  <rdf:Property rdf:ID="name">
    <rdfs:domain rdf:resource="#Competency"/>
    <rdfs:range rdf:resource="xsd:string"/>
  </rdf:Property>

</rdf:RDF>
```


URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/luis.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/luis.rdf#">

  <person:Person          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/luis.rdf">
    <person:name>Luis</person:name>
    <person:requires rdf:resource="&competencies;Competency2" />
    <person:requires rdf:resource="&competencies;Competency5" />
    <person:requires rdf:resource="&competencies;Competency9" />
    <person:requires rdf:resource="&competencies;Competency11" />
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/coursel.rdf" />
  </person:Person>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/maria.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/maria.rdf#">

  <person:Person          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/maria.rdf">
    <person:name>Maria</person:name>
    <person:requires rdf:resource="&competencies;Competency2" />
    <person:requires rdf:resource="&competencies;Competency5" />
    <person:requires rdf:resource="&competencies;Competency8" />
    <person:requires rdf:resource="&competencies;Competency9" />
    <person:requires rdf:resource="&competencies;Competency11" />
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/coursel.rdf" />
  </person:Person>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/antonio.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/antonio.rdf#">

  <person:Person          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/antonio.rdf">
    <person:name>Antonio</person:name>
    <person:requires rdf:resource="&competencies;Competency5" />
    <person:requires rdf:resource="&competencies;Competency6" />
    <person:requires rdf:resource="&competencies;Competency8" />
    <person:requires rdf:resource="&competencies;Competency9" />
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/coursel.rdf" />

</rdf:RDF>
```

```

        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf" />
    </person:Person>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/tereza.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
    <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
    xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/tereza.rdf#">

    <person:Person          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/tereza.rdf">
        <person:name>Tereza</person:name>
        <person:requires rdf:resource="&competencies;Competency5" />
        <person:requires rdf:resource="&competencies;Competency6" />
        <person:requires rdf:resource="&competencies;Competency8" />
        <person:requires rdf:resource="&competencies;Competency9" />
        <person:requires rdf:resource="&competencies;Competency13" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/coursel.rdf" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf" />
    </person:Person>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/joao.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
    <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
    xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/joao.rdf#">

    <person:Person          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/joao.rdf">
        <person:name>Joao</person:name>
        <person:requires rdf:resource="&competencies;Competency12" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/coursel.rdf" />
        <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf" />
    </person:Person>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/ana.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
    <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF

```

```

xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/ana.rdf#">

  <person:Person                                rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/ana.rdf">
    <person:name>Ana</person:name>
    <person:requires rdf:resource="&competencies;Competency12"/>
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course1.rdf"/>
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf"/>
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf"/>
    <person:hasCoursed          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course5.rdf"/>
  </person:Person>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/people/cristiano.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:person="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/person.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/cristiano.rdf#">

  <person:Person                                rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/people/cristiano.rdf">
    <person:name>Cristiano</person:name>
    <person:requires rdf:resource="&competencies;Competency1"/>
    <person:requires rdf:resource="&competencies;Competency2"/>
    <person:requires rdf:resource="&competencies;Competency4"/>
    <person:requires rdf:resource="&competencies;Competency5"/>
    <person:requires rdf:resource="&competencies;Competency6"/>
    <person:requires rdf:resource="&competencies;Competency12"/>
  </person:Person>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course1.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course1.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course1.rdf">
    <course:name>Course1</course:name>
    <course:price>100</course:price>
    <course:develops rdf:resource="&competencies;Competency1"/>
  </course:Course>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course2.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf">
    <course:name>Course2</course:name>
    <course:price>150</course:price>
    <course:develops rdf:resource="&competencies;Competency2"/>
    <course:develops rdf:resource="&competencies;Competency4"/>
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course1.rdf"/>
  </course:Course>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course3.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf">
    <course:name>Course3</course:name>
    <course:price>150</course:price>
    <course:develops rdf:resource="&competencies;Competency2"/>
    <course:develops rdf:resource="&competencies;Competency3"/>
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course1.rdf"/>
  </course:Course>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course4.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course4.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course4.rdf">
    <course:name>Course4</course:name>
    <course:price>300</course:price>
    <course:develops rdf:resource="&competencies;Competency5" />
    <course:develops rdf:resource="&competencies;Competency6" />
    <course:develops rdf:resource="&competencies;Competency8" />
    <course:develops rdf:resource="&competencies;Competency12" />
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course2.rdf" />
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course5.rdf" />
  </course:Course>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course5.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course5.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course5.rdf">
    <course:name>Course5</course:name>
    <course:price>250</course:price>
    <course:develops rdf:resource="&competencies;Competency5" />
    <course:develops rdf:resource="&competencies;Competency6" />
    <course:develops rdf:resource="&competencies;Competency7" />
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf" />
  </course:Course>

</rdf:RDF>
```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course6.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course6.rdf#">

  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course6.rdf">
    <course:name>Course6</course:name>
    <course:price>150</course:price>
    <course:develops rdf:resource="&competencies;Competency4" />
    <course:develops rdf:resource="&competencies;Competency5" />
    <course:develops rdf:resource="&competencies;Competency6" />

</rdf:RDF>
```

```

        <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course3.rdf" />
      </course:Course>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course7.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course7.rdf#">
  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course7.rdf">
    <course:name>Course7</course:name>
    <course:price>400</course:price>
    <course:develops rdf:resource="&competencies;Competency9" />
    <course:develops rdf:resource="&competencies;Competency10" />
    <course:develops rdf:resource="&competencies;Competency13" />
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course4.rdf" />
  </course:Course>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course8.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course8.rdf#">
  <course:Course          rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course8.rdf">
    <course:name>Course8</course:name>
    <course:price>300</course:price>
    <course:develops rdf:resource="&competencies;Competency8" />
    <course:develops rdf:resource="&competencies;Competency9" />
    <course:develops rdf:resource="&competencies;Competency11" />
    <course:preRequisite          rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course5.rdf" />
  </course:Course>
</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course9.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY          competencies          "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course9.rdf#">

```

```

<course:Course                                rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course9.rdf">
  <course:name>Course9</course:name>
  <course:price>300</course:price>
  <course:develops rdf:resource="&competencies;Competency9"/>
  <course:develops rdf:resource="&competencies;Competency11"/>
  <course:preRequisite    rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course6.rdf"/>
</course:Course>

</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/courses/course10.rdf>

```

<?xml version='1.0' encoding='ISO-8859-1'?>
<!DOCTYPE rdf:RDF [
  <!ENTITY                                competencies                "http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">
]>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:course="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/course.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course10.rdf#">

  <course:Course                                rdf:about="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course10.rdf">
    <course:name>Course10</course:name>
    <course:price>300</course:price>
    <course:develops rdf:resource="&competencies;Competency9"/>
    <course:develops rdf:resource="&competencies;Competency10"/>
    <course:develops rdf:resource="&competencies;Competency11"/>
    <course:develops rdf:resource="&competencies;Competency12"/>
    <course:preRequisite    rdf:resource="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/courses/course6.rdf"/>
    </course:Course>

</rdf:RDF>

```

URI: <http://www.lac.inf.puc-rio.br/~ferrao/ontologies/rdf/competencies.rdf>

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:aulanet="http://www.lac.inf.puc-rio.br/~ferrao/ontologies/onts-
rdfs/aulanet.rdfs#"
  xml:base="http://www.lac.inf.puc-
rio.br/~ferrao/ontologies/rdf/competencies.rdf#">

  <aulanet:Competency rdf:ID="Competency1">
    <aulanet:name>Competency1</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency2">
    <aulanet:name>Competency2</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency3">
    <aulanet:name>Competency3</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency4">
    <aulanet:name>Competency4</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency5">
    <aulanet:name>Competency5</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency6">
    <aulanet:name>Competency6</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency7">
    <aulanet:name>Competency7</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency8">
    <aulanet:name>Competency8</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency9">
    <aulanet:name>Competency9</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency10">
    <aulanet:name>Competency10</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency11">
    <aulanet:name>Competency11</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency12">
    <aulanet:name>Competency12</aulanet:name>
  </aulanet:Competency>

  <aulanet:Competency rdf:ID="Competency13">
    <aulanet:name>Competency13</aulanet:name>
  </aulanet:Competency>

</rdf:RDF>
```


Anexo B

Implementação das funções de similaridade para o domínio de gerência de competências para os casos de matching Nto1 e NtoN

```
public class PersonCourseEvaluator extends IndividualEvaluator
{
    public double[] evalNto1(IndividualsCollection persons, Individual course)
    {
        double result = 0.0f;
        double firstValue = -1.0f;
        boolean firstTime = true;
        try
        {
            persons = (IndividualsCollection) persons.clone();
            Iterator iter = persons.iterator();
            while( iter.hasNext() )
            {
                Individual currPerson = (Individual) iter.next();
                double[] currEval = eval1to1( currPerson, course );
                if( currEval[0] >= 0 )
                {
                    stateChanger.changeState( currPerson, course );
                }
                if( currEval[0] == 0 )
                {
                    currEval[0] = -0.1f;
                }
                result += currEval[0];
                if( firstTime )
                {
                    firstValue = currEval[0];
                    firstTime = false;
                }
            }
            return new double []{ result, firstValue };
        }
        catch( PropertyNotFoundException e )
        {
        }
        return new double [] { result };
    }

    public double[] evalNtoN(IndividualsCollection persons,
                             IndividualsCollection courses)
    {
        double result = 0.0f;
        double firstValue = -1.0f;
        boolean firstTime = true;
        double totalPrice = 0.0f;
        try
```

```
{
    IndividualsCollection ps =
        (IndividualsCollection) persons.getClone();
    Iterator iter = courses.iterator();
    while( iter.hasNext() )
    {
        Individual currCourse = (Individual) iter.next();
        double[] currEval = evalNto1( ps, currCourse );
        if( currEval[0] >= 0 )
        {
            stateChanger.changeState( ps, currCourse );
        }
        if( currEval[0] == 0 )
        {
            currEval[0] = -0.1f;
        }
        result += currEval[0];
        totalPrice += currCourse.getPropertyAsDouble( "price" );
        if( firstTime )
        {
            firstValue = currEval[0];
            firstTime = false;
        }
    }
    return new double [] { result, -totalPrice, firstValue };
}
catch( Exception e )
{
}
return new double[] { result };
}
```

Anexo C

Implementação de matching entre perfis de pessoas

```
public class PersonPersonDomainKnowledge extends DomainKnowledge
{
    public PersonPersonDomainKnowledge()
    {
        super( new PersonPersonEvaluator(), (StateChanger) null );
    }
}

public class PersonPersonEvaluator extends IndividualEvaluator
{
    public double[] evalItto1( Individual person, Individual partner )
    {
        double count = 0.0f;

        if( person.equals( partner ) )
        {
            return new double[] { -100.0f };
        }

        try
        {
            Iterator personReqs = person.getRelation( "requires" ).iterator();
            while( personReqs.hasNext() )
            {
                Individual personReq = (Individual) personReqs.next();

                Iterator partnerReqs = partner.getRelation( "requires" ).iterator();
                while( partnerReqs.hasNext() )
                {
                    Individual partnerReq = (Individual) partnerReqs.next();

                    StringComparator cmp = new StringComparator();
                    if( cmp.compare( personReq.getId(), partnerReq.getId() ) == 0 )
                    {
                        count++;
                    }
                }
            }
        }
        catch( Exception e )
        {
        }
        return new double[] { count };
    }

    public double[] evalIttoN( Individual person, IndividualsCollection partners )
    {
        double result = 0.0f;
    }
}
```

```
try
{
    Iterator partnersIt = partners.iterator();
    while( partnersIt.hasNext() )
    {
        Individual partner = (Individual) partnersIt.next();

        double[] currEval = evalltol( person, partner );
        if( currEval[0] == 0 )
        {
            currEval[0] = -0.1f;
        }

        result += currEval[0];
    }
}
catch( Exception e )
{
}
return new double[] { result };
}
```

Anexo D

Evaluator que implementa o conceito de prioridade nos resultados de matching

```
public abstract class PriorityEvaluator extends Evaluator
{
    protected Evaluator evaluator;

    public PriorityEvaluator( Evaluator evaluator )
    {
        this.evaluator = evaluator;
    }

    public abstract double getPriority( MatchingObject o1, MatchingObject o2 );

    public double[] eval( MatchingObject o1, MatchingObject o2 )
    {
        if( evaluator == null )
        {
            return new double[] { 0.0f };
        }

        // Valores de similaridades obtidos pelo evaluator adaptado
        double[] tmpResults = evaluator.eval( o1, o2 );

        // Valor de prioridade entre a demanda e a oferta
        double priorityValue = getPriority( o1, o2 );

        // Valor de similaridade contemplando o conceito de prioridade
        double[] results = new double[tmpResults.length + 1];

        results[0] = priorityValue;
        for( int i = 0; i < tmpResults.length; i++ )
        {
            results[i + 1] = tmpResults[i];
        }
        return results;
    }

    /* Funções de avaliação adaptadas */

    public double[] eval1to1( MatchingObject o1, MatchingObject o2 )
    {
        return evaluator.eval1to1( o1, o2 );
    }

    public double[] eval1toN( MatchingObject c, MatchingObjectCollection list )
    {
        return evaluator.eval1toN( c, list );
    }
}
```

```

public double[] evalNto1( MatchingObjectCollection list, MatchingObject c )
{
    return evaluator.evalNto1( list, c );
}

public double[] evalNtoN( MatchingObjectCollection l1,
                          MatchingObjectCollection l2 )
{
    return evaluator.evalNtoN( l1, l2 );
}
}

```

Implementação de PriorityEvaluator para o domínio de gerência de competências

```

public class PersonCourseDomainKnowledgeWithPriority extends DomainKnowledge
{
    public PersonCourseDomainKnowledgeWithPriority()
    {
        super( new PersonCoursePriorityEvaluator( new PersonCourseEvaluator() ),
              new PersonCourseStateChanger() );
        addRestriction( new PersonCourseRestriction() );
    }
}

public class PersonCoursePriorityEvaluator extends PriorityEvaluator
{
    public PersonCoursePriorityEvaluator( Evaluator evaluator )
    {
        super( evaluator );
    }

    public double getPriority( MatchingObject o1, MatchingObject o2 )
    {
        if( o2.isList() )
        {
            return getPriority( (Individual) o1, (IndividualsCollection) o2 );
        }
        else
        {
            return getPriority( (Individual) o1, (Individual) o2 );
        }
    }

    public double getPriority( Individual person, IndividualsCollection courses )
    {
        double[] result = { 0.0f };
        double epsilon = 1.0f;
        try
        {
            result = evaluator.evalltoN( person, courses );

            Iterator coursesIt = courses.iterator();
            while( coursesIt.hasNext() )
            {

```

```
        Individual course = (Individual) coursesIt.next();

        if( course.getPropertyAsString( "name").equals( "Course5" ) )
        {
            epsilon = 1.5f;
            break;
        }
    }
}
catch( Exception e )
{
}
return epsilon * result[0];
}

public double getPriority( Individual person, Individual course )
{
    double[] result = { 0.0f };
    double epsilon = 1.0f;
    try
    {
        result = evaluator.evalItol( person, course );

        if( course.getPropertyAsString( "name").equals( "Course5" ) )
        {
            epsilon = 1.5f;
        }
    }
    catch( Exception e )
    {
    }
    return epsilon * result[0];
}
}
```