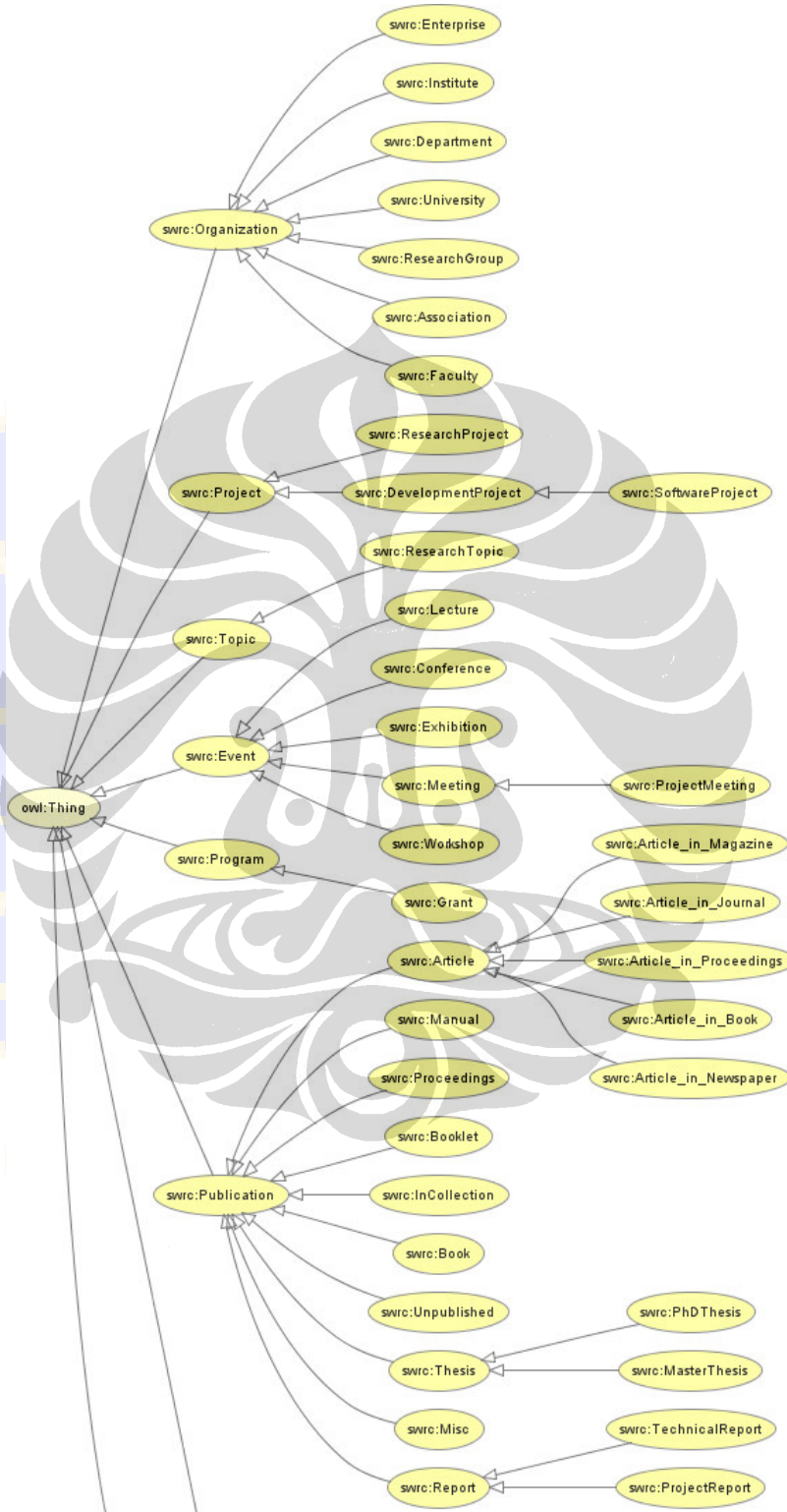
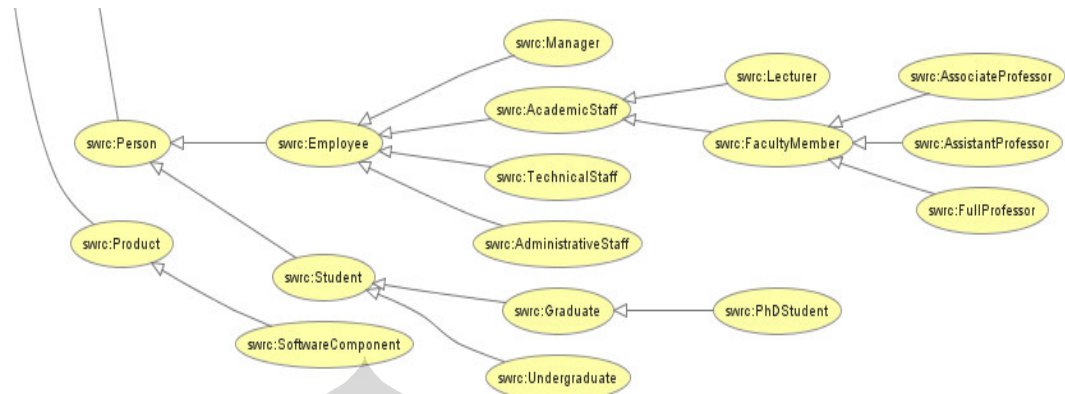


## LAMPIRAN A Ontologi SWRC (*updated*)



Lampiran A.1 Ontologi SWRC (*updated*)

(lanjutan Lampiran A.1)



Lampiran A.1 merupakan semua *classes* pada ontologi SWRC yang menunjukkan relasi *is-a*.



## Lampiran A.2 Code Ontologi SWRC

Lampiran A.2 berikut adalah sebagian *code* ontologi SWRC dalam sintaks RDF/XML. Terdiri atas definisi *classes* *Person*, *Project*, *Publication*, *Faculty*, serta beberapa *ObjectProperty* dan *DatatypeProperty*.

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns="http://swrc.ontoware.org/ontology-03#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:swrc="http://swrc.ontoware.org/ontology#"
  xml:base="http://swrc.ontoware.org/ontology-03">

  <owl:Ontology rdf:about="">
    <owl:versionInfo rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    ></owl:versionInfo>
  </owl:Ontology>

  <owl:Class rdf:about="http://swrc.ontoware.org/ontology#Person">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Person</rdfs:label>
  </owl:Class>

  <owl:Class rdf:about="http://swrc.ontoware.org/ontology#Grant">
    <rdfs:subClassOf>
      <owl:Class rdf:about="http://swrc.ontoware.org/ontology#Program"/>
    </rdfs:subClassOf>
  </owl:Class>

  <owl:Class rdf:about="http://swrc.ontoware.org/ontology#Project">
    <rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:allValuesFrom
          rdf:resource="http://swrc.ontoware.org/ontology#Publication"/>
        <owl:onProperty>
          <owl:ObjectProperty
            rdf:about="http://swrc.ontoware.org/ontology#projectInfo"/>
          </owl:onProperty>
        </owl:Restriction>
      </rdfs:subClassOf>
      <rdfs:subClassOf>
        <owl:Restriction>
          <owl:onProperty>
            <owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#isAbout"/>
          </owl:onProperty>
          <owl:allValuesFrom
            rdf:resource="http://swrc.ontoware.org/ontology#ResearchTopic"/>
          </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
          <owl:Restriction>
            <owl:allValuesFrom rdf:resource="http://swrc.ontoware.org/ontology#Employee"/>
            <owl:onProperty>
              <owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#head"/>
            </owl:onProperty>
          </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
          <owl:Restriction>
            <owl:allValuesFrom
              rdf:resource="http://swrc.ontoware.org/ontology#Organization"/>
            <owl:onProperty>

```

```

    <owl:ObjectProperty
rdf:about="http://swrc.ontoware.org/ontology#carriedOutBy"/>
    </owl:onProperty>
</owl:Restriction>
</rdfs:subClassOf>
</rdfs:subClassOf>
    <owl:Restriction>
    <owl:onProperty rdf:resource="http://swrc.ontoware.org/ontology#member"/>
    <owl:allValuesFrom rdf:resource="http://swrc.ontoware.org/ontology#Person"/>
    </owl:Restriction>
</rdfs:subClassOf>
</rdfs:subClassOf>
    <owl:Restriction>
    <owl:allValuesFrom
rdf:resource="http://swrc.ontoware.org/ontology#Organization"/>
    <owl:onProperty>
    <owl:ObjectProperty
rdf:about="http://swrc.ontoware.org/ontology#financedBy"/>
    </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Project</rdfs:label>
</owl:Class>

<owl:Class rdf:about="http://swrc.ontoware.org/ontology#Publication">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Publication</rdfs:label>
<rdfs:subClassOf>
    <owl:Restriction>
    <owl:allValuesFrom
rdf:resource="http://swrc.ontoware.org/ontology#Publication"/>
    <owl:onProperty>
    <owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#cite"/>
    </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
</owl:Class>

<owl:Class rdf:about="http://swrc.ontoware.org/ontology#Faculty">
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>added to represent Fasilkom as Faculty that has parts Research
Group</rdfs:comment>
<rdfs:subClassOf>
    <owl:Restriction>
    <owl:someValuesFrom
rdf:resource="http://swrc.ontoware.org/ontology#ResearchGroup"/>
    <owl:onProperty>
    <owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#hasParts"/>
    </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf rdf:resource="http://swrc.ontoware.org/ontology#Organization"/>
</owl:Class>

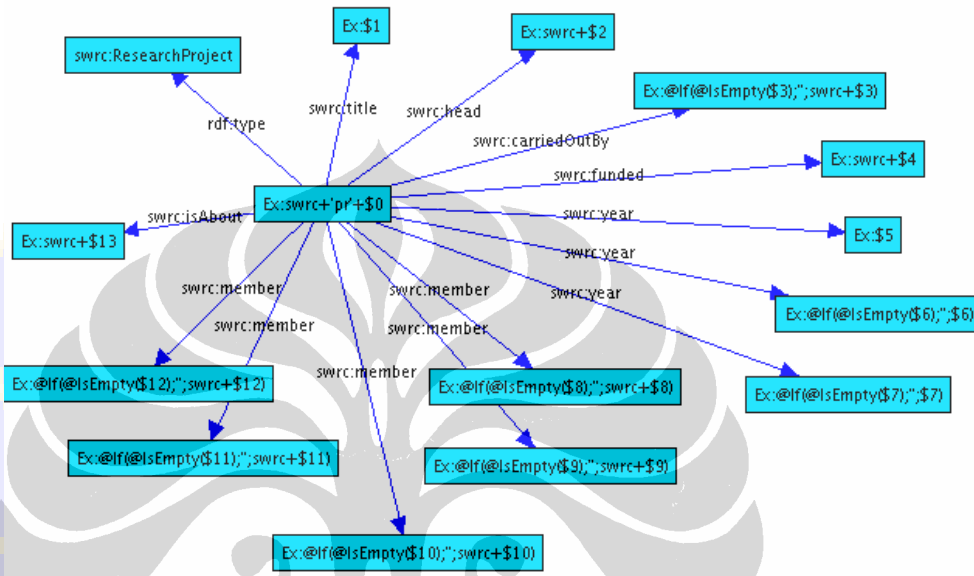
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#describesProject">
    <owl:inverseOf rdf:resource="http://swrc.ontoware.org/ontology#projectInfo"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#institution"/>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#atEvent">
    <owl:inverseOf>
    <owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#hasPartEvent"/>
    </owl:inverseOf>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#finances">
    <owl:inverseOf rdf:resource="http://swrc.ontoware.org/ontology#financedBy"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#participated">
    <owl:inverseOf rdf:resource="http://swrc.ontoware.org/ontology#participant"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#headOfGroup">
    <owl:inverseOf rdf:resource="http://swrc.ontoware.org/ontology#head"/>
</owl:ObjectProperty>

```

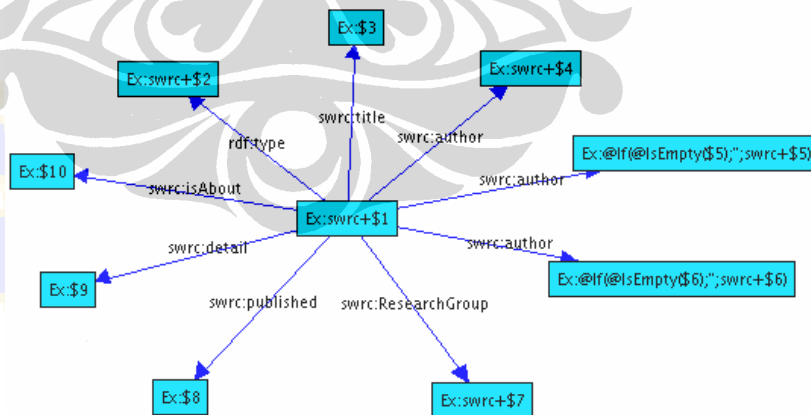
```
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#RootRelation"/>
<owl:ObjectProperty rdf:about="http://swrc.ontoware.org/ontology#hasPartEvent">
  <owl:inverseOf rdf:resource="http://swrc.ontoware.org/ontology#atEvent"/>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#abstract"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#edition"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#homepage"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#location"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#eventTitle"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#email"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#chapter"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#memberAndHead"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#isbn"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#price"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#date"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#year"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#keywords"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#source"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#pages"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#note"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#series"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#month"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#number"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#address"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#type"/>
<owl:DatatypeProperty
  rdf:about="http://swrc.ontoware.org/ontology#levelOfPublication" />
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#hasPrice"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#volume"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#booktitle"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#howpublished"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#phone"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#name"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#serialTitle"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#fax"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#title"/>
<owl:DatatypeProperty rdf:about="http://swrc.ontoware.org/ontology#photo"/>
</rdf:RDF>
```

## LAMPIRAN B Map Graph

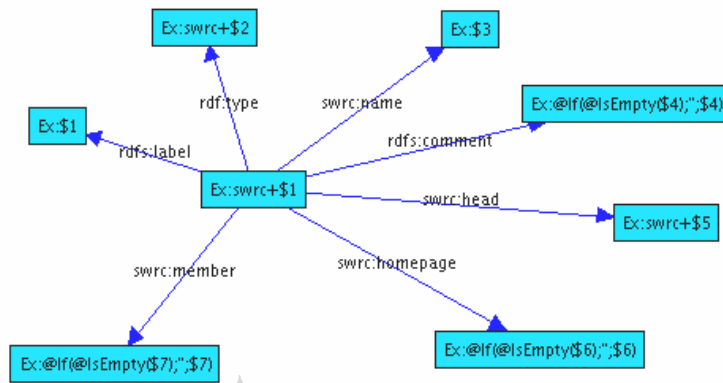
Lampiran B berisi *map graph* RDF123 yang digunakan untuk *convert* data dari *spreadsheet* menjadi RDF.



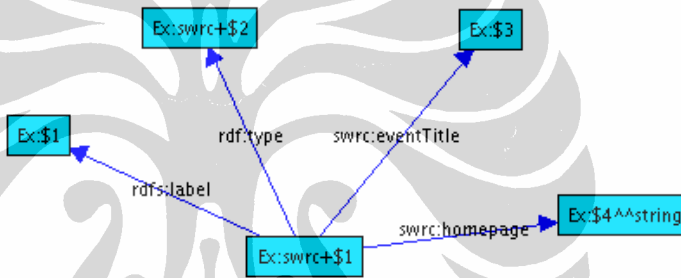
Lampiran B.1 Map Graph Project



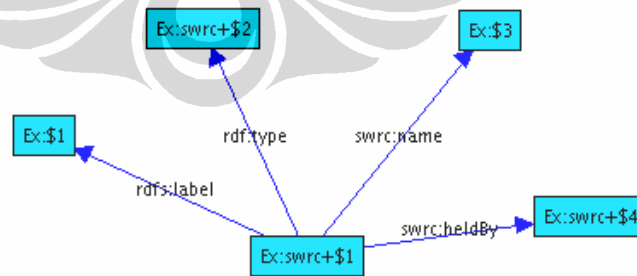
Lampiran B.2 Map Graph Publication



**Lampiran B.3 Map Graph Organization**



**Lampiran B.4 Map Graph Event**



**Lampiran B.5 Map Graph Program**



## LAMPIRAN C *Instances Data*

Berikut ini adalah contoh *code* untuk *instances data Project*.

```

@prefix swrc: <http://swrc.ontoware.org/ontology#> .
@prefix rdf123: <http://rdf123.umbc.edu/ns/> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix : <#> .

swrc:pr1
  a swrc:ResearchProject ;
  swrc:carriedOutBy swrc:MMU ;
  swrc:funded swrc:insentif ;
  swrc:head swrc:rahmat ;
  swrc:isAbout swrc:NE ;
  swrc:member swrc:yeni , swrc:susan , swrc:nova , swrc:tatik , swrc:ika ;
  swrc:title "Pengembangan Intelligent Content-Based Image Retrieval dengan
Umpan Balik Relevan Berbasis Jaringan Saraf Tiruan SONIA dan Sensitivitas Ekspresi
Berbasis Teori Fuzzy" ;
  swrc:year "2008" , "2007" , "2009" .

swrc:pr2
  a swrc:ResearchProject ;
  swrc:carriedOutBy swrc:FMSE ;
  swrc:funded swrc:insentif ;
  swrc:head swrc:ade ;
  swrc:isAbout swrc:SE ;
  swrc:member swrc:prastudy , swrc:richard , swrc:adila , swrc:ario ,
swrc:daniel ;
  swrc:title "Pengembangan Alat Bantu Sertifikasi untuk Perangkat Lunak
Berbasis Komponen (Component Software)" ;
  swrc:year "2008" , "2007" , "2009" .

swrc:pr3
  a swrc:ResearchProject ;
  swrc:carriedOutBy swrc:CI ;
  swrc:funded swrc:pasca ;
  swrc:head swrc:benyamin ;
  swrc:isAbout swrc:CE ;
  swrc:title "Pengembangan Metode Kecerdasan Komputasional untuk Peningkatan
Kemampuan Sistem Penciuman Elektronika" ;
  swrc:year "2006" , "2007" , "2005" .

swrc:pr4
  a swrc:ResearchProject ;
  swrc:carriedOutBy swrc:CI ;
  swrc:funded swrc:RUTI ;
  swrc:head swrc:benyamin ;
  swrc:isAbout swrc:NE ;
  swrc:member swrc:rahmat ;
  swrc:title "Development of 3D AFR System Using Novel Structure of Neural
Networks with Its Pose Estimation Subsystem through Modified Nearest Feature Line
Method" ;
  swrc:year "2006" , "2007" , "2005" .

swrc:pr5
  a swrc:ResearchProject ;
  swrc:carriedOutBy swrc:labIR ;
  swrc:funded swrc:bersaing ;
  swrc:head swrc:nizar ;
  swrc:isAbout swrc:IR ;
  swrc:title "Sistem Temu Kembali Informasi pada Adaptive Peer-to-Peer System"
;
  swrc:year "2006" , "2007" .

swrc:pr6
  a swrc:ResearchProject ;
  swrc:funded swrc:RUUI ;
  swrc:head swrc:rahmat ;

```



```

swrc:isAbout swrc:AI ;
swrc:title "Perangkat Lunak Cerdas untuk Identifikasi Wajah Buron Dengan
Fuzzy Similarity Measure" ;
swrc:year "2007" .

swrc:pr7
a      swrc:ResearchProject ;
swrc:carriedOutBy swrc:labIR ;
swrc:funded swrc:RUUI ;
swrc:head swrc:maruli ;
swrc:isAbout swrc:CL ;
swrc:title "Pengembangan versi awal BahasaNet, sebuah WordNet untuk Bahasa
Indonesia" ;
swrc:year "2007" .

swrc:pr8
a      swrc:ResearchProject ;
swrc:carriedOutBy swrc:FMSE ;
swrc:funded swrc:RUUI ;
swrc:head swrc:bela ;
swrc:isAbout swrc:LO ;
swrc:title "Otomasi Logika Matematika dalam Meningkatkan Kualitas Perangkat
Lunak" ;
swrc:year "2007" .

swrc:pr9
a      swrc:ResearchProject ;
swrc:funded swrc:RUUI ;
swrc:head swrc:yova ;
swrc:isAbout swrc:DB ;
swrc:title "Penelitian dan Pengembangan Data mining Algorithms Collection" ;
swrc:year "2007" .

swrc:pr10
a      swrc:ResearchProject ;
swrc:carriedOutBy swrc:labIR ;
swrc:funded swrc:NUS ;
swrc:head swrc:mirna ;
swrc:isAbout swrc:CL ;
swrc:member swrc:bressan , swrc:syandra , swrc:vinny , swrc:herika ;
swrc:title "Mind Your Language: Corpora and Algorithms for Fundamental
Natural Language Processing Tasks in Information Retrieval and Extraction for the
Indonesian & Malay Languages" ;
swrc:year "2007" .

swrc:pr11
a      swrc:ResearchProject ;
swrc:carriedOutBy swrc:labIR ;
swrc:funded swrc:RUUI ;
swrc:head swrc:mirna ;
swrc:isAbout swrc:CL ;
swrc:member swrc:monica ;
swrc:title "Penyusunan Thesaurus Berdasarkan Korpus Paralel Untuk Perolehan
Informasi Lintas Bahasa" ;
swrc:year "2006" .

swrc:pr12
a      swrc:ResearchProject ;
swrc:carriedOutBy swrc:HPGC ;
swrc:funded swrc:Program_B ;
swrc:head swrc:betty ;
swrc:isAbout swrc:DC ;
swrc:title "On Line Laboratory Based on Grid Computing" ;
swrc:year "2005" .

```

## LAMPIRAN D Halaman *Portal*

Berikut adalah beberapa halaman *portal* yang menampilkan contoh *resource page* untuk masing-masing entitas *person*, *project*, *publication*, *organization*, *program*, *event*, dan *topic*.

**Semantic Portal**

Home  
People  
Project  
Publication  
Administration

**Semantic Portal for Computer Science (CS) Research Community**

**About**

This is a prototype of semantic portal to demonstrate the usage of ontology within an application. Based on semantic web technologies, this portal has been implemented using portalCore tool from SWAD-E project to create SWED (Semantic Web Environmental Directory). The resources that used for building this portal is downloaded from [here](#).

**Start Browsing :**

- ▶ [People](#)
- ▶ [Project](#)
- ▶ [Publication](#)

**Portal Data**

Ontology : [SWRC Ontology](#)

Instance Data :

- ◆ [Person](#)
- ◆ [Project](#)
- ◆ [Publication](#)
- ◆ [Topic](#)
- ◆ [Organization](#)
- ◆ [Program](#)
- ◆ [Event](#)

Lampiran D.1 Halaman Utama

**Semantic Portal**

Search People  
   
 all items  
 within current results

Home  
Start browsing again  
View raw  
Visualize links

**Recently visited:**

- ◆ [Fasilkom UI](#)
- ◆ [FMSE](#)
- ◆ [Belawati H. Widjaja](#)
- ◆ [Penambangan Fragment dengan Rantai Fuzzy pada Database Molekul](#)
- ◆ [Developing Technology for Specifying and Generating Critical Data Processing Programs](#)

**Belawati H. Widjaja**  
Academic Staff

**Email:**  
**Homepage:**  
**Phone:**  
**Fax:**  
**Address:**

**Research Activities**

<b>Research Area</b>	<a href="#">Logic in Computer Science</a>
<b>Research Group</b>	<a href="#">FMSE</a>
<b>Project</b>	>> <a href="#">Computations Logic for Computer Science &amp; Intelligent System</a> >> <a href="#">Developing Technology for Specifying and Generating Critical Data Processing Programs</a> >> <a href="#">Otomasi Logika Matematika dalam Meningkatkan Kualitas Perangkat Lunak</a>
<b>Publication</b>	>> <a href="#">Penambangan Fragment dengan Rantai Fuzzy pada Database Molekul</a>

**Browse:**

- ▶ [People](#)
- ▶ [Project](#)
- ▶ [Publication](#)

**Other links:**

- ▶ [SCeLE](#)
- ▶ [Lontar](#)
- ▶ [DRPM UI](#)

CS Research Community



Department of Computer Science, University of Indonesia

Lampiran D.2 Halaman *Person*

**Semantic Portal**

Record 1 of 5 | [Back to Results](#) << | [Next](#) >>

**Computations Logic for Computer Science & Intelligent System**

Description  
*Comment that describe the research project.*

Detail

**Head:** [Yohanes Stefanus, PhD](#)

**Member:** [Belawati H. Widjaja](#)  
[Siti Aminah S.Kom.](#)

**Year:** 2004 - 2005

**Lab:** [FMSE](#)

**Grant:** [ASIALINK](#)

**Topic:** [Logic in Computer Science](#)

**Browse:**  
[.:People](#)  
[.:Project](#)  
[.:Publication](#)

**Other links:**  
[.:SCeLE](#)  
[.:Lontar](#)  
[.:DRPM UI](#)

CS Research Community

Department of Computer Science, University of Indonesia

### Lampiran D.3 Halaman *Project*

**Semantic Portal**

Record 4 of 5 | [Back to Results](#) << | [Previous](#) | [Next](#) >>

**Penyisipan Tanda Air pada Citra Digital Berbasis Dekomposisi Nilai Singulir (DNS)**

<b>Type:</b>	Article
<b>Level:</b>	National
<b>Author:</b>	<a href="#">T. Basaruddin, Ph.D</a>
<b>Subject:</b>	<a href="#">Computer Vision and Pattern Recognition</a>
<b>Journal / Magazine:</b>	Jurnal Ilmiah Makara, Seri Sains
<b>Detail:</b>	Vol. 10 no.2 Nov 2006
<b>Lab:</b>	<a href="#">HPGC</a>

**Browse:**  
[.:People](#)  
[.:Project](#)  
[.:Publication](#)

**Other links:**  
[.:SCeLE](#)  
[.:Lontar](#)  
[.:DRPM UI](#)

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Department of Computer Science, University of Indonesia

### Lampiran D.4 Halaman *Publication*

**Semantic Portal**

Search People  
   
 all items  
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**Home**  
 Start browsing again  
 View raw  
 Visualize links

**Recently visited:**

- Logic in Computer Science
- Fasilkom UI
- HPGC
- CI
- DL2

**Lab. Digital Library & Distance Learning**

Description  
 Comment that describe the organization.

Detail

**Type:** Organization - Research Group

**URL:** <http://dl2.cs.ui.ac.id>

**Head:** [Zainal A. Hasibuan, PhD](#)

**Research:**

- Improving Competitiveness of Human Resource Through the Use of IT to Promote Intellectual Capability
- Pendekatan Model Pengembangan Sistem Informasi Lingkungan Akademik

**Publication:**

- Pro-Kontra Peran Grid dalam Perpustakaan Digital
- RDF dalam Pertukaran Data Perpustakaan Digital

**Relational Links**  
 part of [Fasilkom UI](#)

**Browse:**

- ..People
- ..Project
- ..Publication

**Other links:**

- ..SCeLE
- ..Lontar
- ..DRPM UI

CS Research Community



### Lampiran D.5 Halaman *Organization*

**Semantic Portal**

Search People  
   
 all items  
 within current results

**Home**  
 Start browsing again  
 View raw  
 Visualize links

**Recently visited:**

- RDF dalam Pertukaran Data Perpustakaan Digital
- IR
- Mind Your Language: Corpora and Algorithms for Fundamental Natural Language Processing Tasks in Information Retrieval and Extraction for the Indonesian & Malay Languages
- Identifying Location in Indonesian Document for Geographic Information Retrieval
- Information Retrieval

**Information Retrieval**

Covers indexing, dictionaries, retrieval, content and analysis. Roughly includes material in ACM Subject Classes H.3.0, H.3.1, H.3.2, H.3.3, and H.3.4.

Source of Subject Area: [CoRR \(Computing Research Repository\)](#)

**Project**

- ◆ [Sistem Temu Kembali Informasi pada Adaptive Peer-to-Peer System](#)

**Publication**

- ◆ [Identifying Location in Indonesian Document for Geographic Information Retrieval](#)

**Browse:**

- ..People
- ..Project
- ..Publication

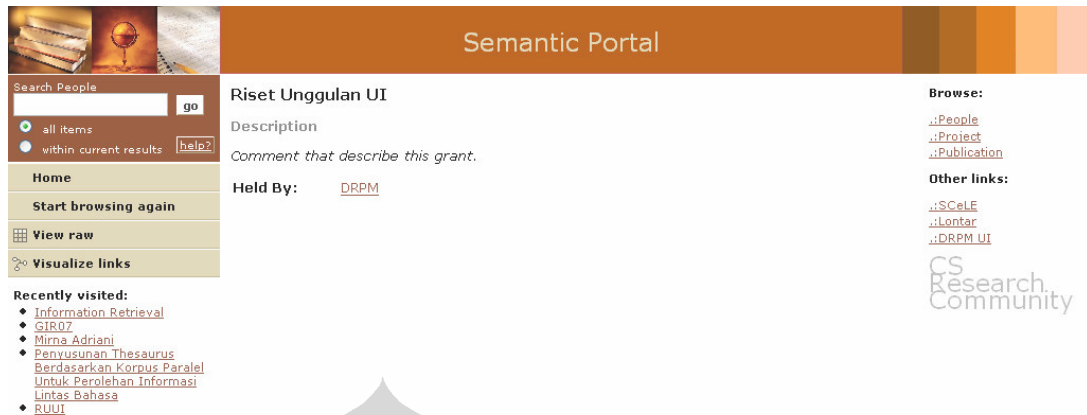
**Other links:**

- ..SCeLE
- ..Lontar
- ..DRPM UI

CS Research Community

Department of Computer Science, University of Indonesia

### Lampiran D.6 Halaman *Topic*



**Semantic Portal**

Search People

all items  within current results

**Home**

**Start browsing again**

**View raw**

**Visualize links**

**Recently visited:**

- Information Retrieval
- GIR07
- Mirna Adriani
- Penyusunan Thesaurus Berdasarkan Korpus Paralel Untuk Perolehan Informasi Lintas Bahasa
- RUUI

**Riset Unggulan UI**

Description

Comment that describe this grant.

Held By: [DRPM](#)

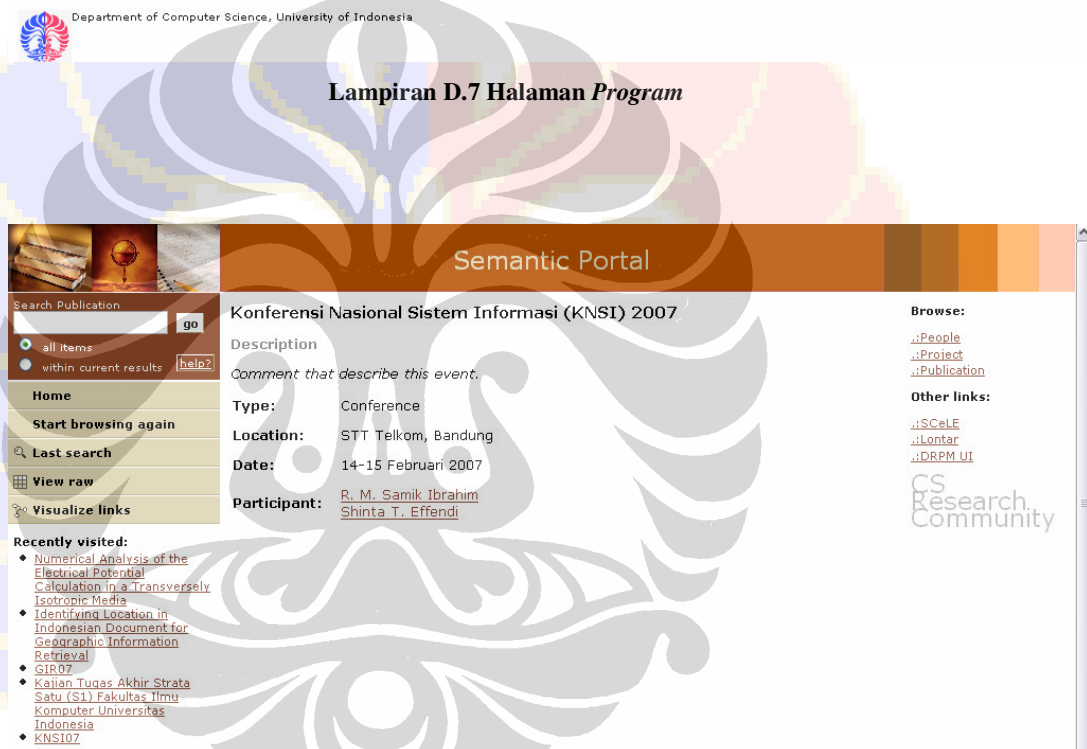
**Browse:**

- [People](#)
- [Project](#)
- [Publication](#)

**Other links:**

- [SCeLE](#)
- [Lontar](#)
- [DRPM UI](#)

CS Research Community



**Semantic Portal**

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