

**Akademia Górniczo-Hutnicza  
im. Stanisława Staszica w Krakowie**



**Wydział Elektrotechniki, Automatyki, Informatyki i  
Elektroniki**

**Podstawy inżynierii wiedzy**  
Semantic Web

**Temat:** Semantic Web Applications: Semantic Wikis

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Wtorek 17:30

# 1.Semantic Wikis – Introduction

## 2.Semantic MediaWiki – Categories

- Student – Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1730/nawojka>

My name is nawojka.

I am 23 years old. Currently I study at AGH UST, faculty of electrical engineering.

I belong to group on 17.30

The other members of my group are:

[[Category:Student]]

- University subject – Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/MMWGK2012>

[[Category:University subject]]

## 3.Semantic MediaWiki – Properties

- Student – include the updated wikipage source code (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group1730/nawojka>

My name is [[name:: Nawojka]]. I am [[age::23]] years old.

Currently I study at AGH UST, faculty of electrical engineering.

I belong to group on [[group:: 17:30]]

The other members of my group are:

[[Category:Student]]

- University subject – include the updated wikipage source code (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/MMWGK2012>

lead by: [[lead by::prof Szpyrka]]

room: [[room::B1 H26]]

duration: [[duration::90]] min

[[Category:University subject]]

## 4.Semantic MediaWiki – Inline queries

- Put the query in the report.

```
{{#ask: [[Category:Student]] [[group::1600]]  
| ?name
```

```
| ?age
| ?group
| format=ul
}}
```

- Put the query in the report.

```
{{#ask: [[Category:Student]] [[Group::group1730]]
| ?name
| ?age
| sort=age,name
| order=asc,asc
| format=table
| default=nothing found in Category:Student
}}
```

## 5.Loki – Introduction

## 6.Loki – Use Cases

- 6.2 – Copy the wiki pages sources and paste them into the report.

<http://loki.ia.agh.edu.pl/lokidev/miasta:paryz>

Paris is the capital city of [[capital of::countries:France]] inhabited by [[inhabited by:=population:=12 089 098]] people.

Paris is the largest [[category:city|city]] of [[located in::countries:France]].

[[page created:=2012-06-09]]

<http://loki.ia.agh.edu.pl/lokidev/countries:france>

France is a [[category:country]] situated in western [[placed\_in::continents:europa|Europe]]. Its area is [[area:=674,843 km<sup>2</sup>|674,843 km<sup>2</sup>]]. It is [[inhabited by:=population:=65 350 000|inhabited by 65 350 000 people]]. Its official language is [[language::languages:french]].

[[page created:=2012-06-09]]

## 7.Loki – Semantic Web Standards

- Put the query into the report.

Miasta większe niż 40000:

```
<pl format="sparql">
```

```
PREFIX wiki: <>
```

```
SELECT ?city ?area
```

```
WHERE {
  ?city a "city" .
  ?city wiki:area ?area .

  FILTER ( ?area >= "400000")
}
LIMIT 10
</pl>
```

## 8.Loki – Reasoning

- Put the goal into the report.

Miasta we Francji:

~~NOCACHE~~

```
<pl goal="wiki_category(X,'city'),wiki_relation(X,'located
in','countries:France'),write(X,nl,fail" scope="miasta">
  </pl>
```