## ESWC 2009 & SemWiki 2009

### Marek Schmidt

2009-06-18 KEG, Praha

# 4<sup>th</sup> Workshop on Semantic Wikis (SemWiki 2009)

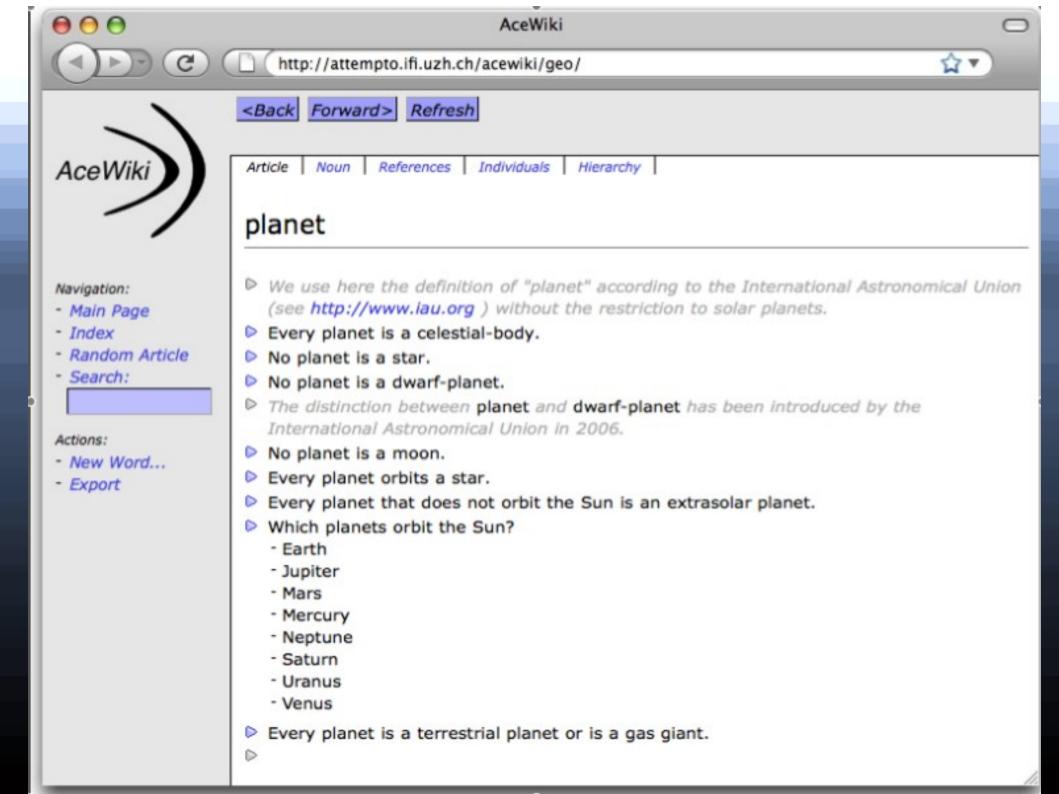


- See Summary
- 15 papers
- 11 demos & posters

### How Controlled English can Improve Semantic Wikis

#### Tobias Kuhn (best paper at SemWiki2009)

- AceWiki (Attempto Controlled English)
  - http://attempto.ifi.uzh.ch/acewiki/
- ACE  $\leftrightarrow$  OWL
  - Every person who writes a book is an author
  - If X borders Y then Y borders X.
  - Which cities are located in a country that borders Switzerland?
- OWL reasoner, consistency check
- User study



# WIKITAAABLE: A semantic wiki as a blackboard for a textual case-based reasoning system

Hala Skaf-Molli et al

- Semantic Media Wiki application for cooking recipes
  - Cooking terminology
  - Ontology, adaptation rules
- http://taaable.fr/
- Case-based reasoning
  - Orange pie
    - (Apple pie, replace apple with orange)



Ingredients			
l want:	Id	on't want:	
orange	?	2	
Type of dish			
I want:	I d	on't want:	
pie	?	?	
More options			
□Vegetarian □Nut-free	e 🔲 No alcohol	Advanced Configuration ?	
	Find recipes! Get 5!	Reset query	

#### Your request: orange D:pie

Common path: 1<citrus\_fruit --> orange>

Common cost: 1.3778748590755354

5
5
5
5
5

Results 1 - 5 on 5 | Processing time: 0.0246 secondes

### KiWi - A Platform for Semantic Social Software

Sebastian Schaffert et al. (best demo at ESWC 2009)

- http://showcase.kiwi-project.eu
- Semantic Social Software platform
- Content Versatility
  - Same content, different views
  - KiWi Façades
- Architecture
  - Service-Oriented, Component-Based

## **Other topics**

 Conceptual models - Tags vs RDF Distributed knowledge - Peer to peer wiki - Cross wiki integration Architecture – plugins

## **ESWC 2009**

### Frame Detection over the Semantic Web

## B. Coppola et al.

- Frame-based ontology learning
- Generates domain-specific frames (destilled from general FrameNet)
  - Frame detection (SRL)
  - Super sense tagger (WordNet)
  - LMM MetaModel
- Example (europarl)
  - Judgment\_communication → AccuseOfViolation
    - Communicator  $\rightarrow$  People
    - Reason  $\rightarrow$  Violation

- User requirements (competency questions)
- Domain corpus
- Frame datasets (FrameNet, VerbNet, etc.)
- General lexical categories (WordNet super-senses)
- Lexical MetaModel (LMM)

#### Collecting resources and datasets

#### Selecting, detecting, and typing domain frames

- Matching requirements to frames
- Frame occurrence detection in corpus
- Super-sense tagging of frame elements
- Distilling relevant domain-specific frames

- Mapping to other resources within LMM scope (e.g. DBpedia)
- Transforming LMM models into regular OWL TBoxes and ABoxes
- Running unit tests based on competency questions

#### Formalizing domain ontology

#### Media Meets Semantic Web – How the BBC Uses DBPedia and Linked Data to Make Connections

G. Kobilarov et al. Best In-Use-Track Paper

- Linking CIS Concepts to DBpedia
  - Label lookup
  - Context-based Disambiguation
- Named entity recognition (Muddy Boots)
  - DBpedia URIs
- Automatically generated "Navigational badges"
  - Related stories based on recognized entities

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