

WEEK 1: Geospatial Ontology

Preliminary Programme: Version 3.0 June 9, 2007 (subject to changes)

Instructors: Nicola Guarino (NG), Werner Kuhn (WK), David Mark (DM).

Note the required and suggested readings at the bottom!

Sunday June 10

20.00 welcome dinner at course site
(meet 19:45 in Fiesole, bus stop of line 47, town centre next to church)

Monday June 11

08.30-09.30 Goals and objectives of the course: thinking vs. tinkering, self-introduction of participants
09.30-10.00 Introduction to Ontology (NG)
10.00-10.30 Coffee break
10.30-11.30 Introduction to Ontology (NG, cont'd)
11.30-12.30 What ontological problems have you faced in your research and practice? (all)
12.30-13.30 Lunch
13.30-14.00 Introduction to group work (WK, DM, NG)
14.00-16.30 Group work: Analysis of spatial relations
15.30-16.30 One-on-one sessions on individual research
20:00 hours Group dinner, town centre (meet before at bus 47 stop)

Tuesday June 12

08.30-10.00 Geospatial Categories (DM)
10.00-10.30 Coffee break
10.30-11.30 Elements of semantic reference systems (WK)
11.15-12.30 Research methods: writing 100-word abstracts (WK)
12.30-13.30 Lunch
13.30-16:30 Group work: Analysis of spatial relations (cont'd) and abstract writing
15.30-16.30 One-on-one sessions on individual research
free evening

Wednesday June 13

08.30-10:00 Research frontiers: Foundational Ontologies (NG)
10.00-10.30 Coffee break
10.30-11.30 Foundational Ontologies (cont'd)
11.30-12.30 Research methods: abstracts dissection (all)
12.30-13.30 Lunch
13.30-16.30 Group work: Formal specification
15.30-16.30 One-on-one sessions on individual research
20:00 hours Group dinner, town centre (meet at bus 47 stop)

Thursday June 14

08.30-10.00 Research frontiers: Ethnophysiology (DM)
10.00-10.30 Coffee break and fotos
10.30-11.30 What is special about geospatial categories? (all participants)
11.30-12.30 Research labs and publication outlets (all participants)
12.30-13.30 Lunch
13.30-14:30 Discussion of formalization questions from groups
14.30-16.30 Group work: Formal specification of domain concepts (cont'd)
free evening

Friday June 15

08.30-10.00 Research frontiers: Grounding Ontologies (WK)
10.00-10.30 Coffee break
10.30-11.30 Demonstration: doing ontology in a higher level language
11.30-12.30 Research methods: European vs. US research perspectives and funding (all)
12.30-13.30 Lunch
13.30-16.00 Group work presentations, discussion, and awards
20:00 hours Farewell party and dinner at Fattoria (bus 47 at 19:45)

Readings

Required

<http://www.sli.unimelb.edu.au/winter/pubs/bittner04geosemantics.pdf>

<http://www.ncgia.buffalo.edu/ontology/SDH98.html>

<http://ifgi.uni-muenster.de/%7Ekuhn/research/publications/JODS%202005.pdf>

<http://www.loa-cnr.it/Papers/FOIS98.pdf>

Suggested

http://www.ncgia.buffalo.edu/ontology/SmithMarkIJGIS2001p591_s.pdf

<http://www.ncgia.buffalo.edu/ethnophysiology/COSIT03MarkTurk.pdf>

<http://ifgi.uni-muenster.de/%7Ekuhn/research/publications/Image-schematic%20categorization%20final%20formatted-Author-Date.pdf>