

## References

- Abela, C. (2010). *OWL tutorial* Retrieved May 21, 2012, from <http://www.slideshare.net/artintelligence/owl-tutorial>
- Acampora, G., Loia, V., Salerno, S., & Vitiello, A. (2012). A hybrid evolutionary approach for solving the ontology alignment problem. *International Journal of Intelligent Systems*, 27(3), 189-216. doi: 10.1002/int.20517
- Agarwal, P. (2005). Ontological considerations in GIScience. *International Journal of Geographical Information Science*, 19(5), 501-536. doi: 10.1080/13658810500032321
- Ahlqvist, O. (2008). Extending post-classification change detection using semantic similarity metrics to overcome class heterogeneity: A study of 1992 and 2001 U.S. national land cover database changes. *Remote Sensing of Environment*, 112, 1226-1241. doi: 10.1016/j.rse.2007.08.012
- Ahlqvist, O. (2010). A common framework for visually reconciling geographic data semantics in geospatial data mapping portals. *Cartographica*, 45(2), 140-151. doi: 10.3138/cart.45.2.140
- AI Space. (2012). *Working with ontologies*. Retrieved August 2, 2012, from <http://www.aispace.org/exercises/exercise13-a-1.shtml>;
- Aker, A., & Gaizauskas, R. (2011). Understanding the types of information humans associate with geographic objects. Paper presented at the *CIKM '11 Proceedings of the 20th ACM International Conference on Information and Knowledge Management*, New York. 1929-1932. doi: 10.1145/2063576.2063857
- Alam, A. A. (2008). Geospatial resource description framework (GRDF) and security constructs. *Computer Standards and Interfaces*, 33(1), 475-481. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0920548910000048>

- Albrecht, J., Derman, B., & Ramasubramanian, L. (2008). Geo-ontology tools: The missing link. *Transactions in GIS*, 12(4), 409-424. Retrieved from <http://www.geo.hunter.cuny.edu/courses/geog702/articles/Geo-Ontology%20Tools%20-%20the%20missing%20link.pdf>
- AllegroGraph. (2011). *AllegroGraph SPARQL for diverse ontologies*. Retrieved May 30, 2012, from <http://www.youtube.com/watch?v=GVzMyi9FVrk>
- Allemang, D., & Hendler, J. A. (2011). *Semantic web for the working ontologist [electronic resource] : Effective modeling in RDFS and OWL / dean allemang, jim hendler* Waltham, MA : Morgan Kaufmann/Elsevier, c2011; 2nd ed. Retrieved from <http://www.sciencedirect.com/science/book/9780123859655>
- ALMEIDA, M. (2011). Semantics in the semantic web: A critical evaluation. *Knowledge Organization*, 38(3), 187. Retrieved from [http://mba.eci.ufmg.br/downloads/spec\\_subm\\_KO\\_last.pdf](http://mba.eci.ufmg.br/downloads/spec_subm_KO_last.pdf)
- Alspace. *Practice exercise 13.A ontologies*. Retrieved May 21, 2012, from <http://www.aispace.org/exercises/exercise13-a-1.shtml>
- Altova. (2012). *What is the semantic web*. Retrieved May 21, 2012, from [http://www.altova.com/semantic\\_web.html](http://www.altova.com/semantic_web.html)
- Andrea Rodríguez, M., & Egenhofer, M. J. (2004). Comparing geospatial entity classes: An asymmetric and context-dependent similarity measure. *International Journal of Geographical Information Science*, 18(3), 229-256. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=8&hid=5&sid=0b09877e-d19c-47b8-8fe0-74b9062dc388%40sessionmgr10&bdata=Jmxhbmc9emgtDHcmc2l0ZT1lZHMtbGl2ZSZzY29wZT1zaXRI#db=a9h&AN=12633559>
- Antoniou, G., & van Harmelen, F. (2004). *A semantic web primer* Retrieved from <http://www.ics.forth.gr/isl/swprimer/presentation.htm>

- Antoniou, G., & van Harmelen, F. (2008). In Papazoglou M., Spaccapietra S. and Tari Z. (Eds.), *A semantic web primer* (Second ed.). Cambridge, Massachusetts: The MIT Press.  
Retrieved from  
[http://dl.hackr.info/programming%20references/Web%20programing%20books/semantic\\_20web/a-semantic-web-primer-2nd-edition-cooperative-information-systems.9780262012423.33121.pdf](http://dl.hackr.info/programming%20references/Web%20programing%20books/semantic_20web/a-semantic-web-primer-2nd-edition-cooperative-information-systems.9780262012423.33121.pdf)
- Apache. (2012). *Jena*. Retrieved June 6, 2012, from  
<http://jena.apache.org/documentation/tdb/index.html>
- Arpinar, I. B., Sheth, A., Ramakrishnan, C., Usery, E. L., Azami, M., & Kwan, M. (2004). Geospatial ontology development and semantic analytics. *Handbook of Geographic Information Science*, Retrieved from  
<http://knoesis.wright.edu/library/download/ASRU+2004-gis.pdf>
- Arpinar, I. B., Ramakrishnan, C., Azami, M., Sheth, A., Usery, E. L., & Mei-Po, K. (2006). Geospatial ontology development and semantics analytics. *Transactions in GIS*, 10(4), 551-575. doi: 10.1111/j.1467-9671.2006.01012.x
- Ashish, N., Kalashnikov, D., & Mehrotra, S. (2009). An event based approach to situational representation. *Arxiv*, 2012. doi: arXiv:0906.4096v2
- Aufreiter, M. *Ask ken*. Retrieved June 25, 2012, from <http://askken.herokuapp.com/>
- Baglioni, M., Masserotti, M. V., Spinsanti, L., Giovannetti, E., & Renso, C. (2008). Ontology-supported querying of geographical databases. *Transactions in GIS*, 12, 31-44. doi: 10.1111/j.1467-9671.2008.01136.x
- Batsakis, S., & Petrakis, E. G. M. (2010). SOWL spatio-temporal representation, reasoning and querying over the semantic web. Paper presented at the *I-Semantics '10 Proceedings on the 6th International Conference on Semantic Systems*, New York, , 6(10) doi: 10.1145/1839707.1839726

- Beard, K. (2012). Organizing relationships to aid place name searches. *Journal of Spatial Information Science and Engineering*, 53(48) Retrieved from <http://www.josis.org/index.php/josis/article/view/53>
- Bechhofer, S. (2007). *An introduction to OWL*. Retrieved May 22, 2012, from [http://videlectures.net/iswc07\\_bechhofer\\_iowl/](http://videlectures.net/iswc07_bechhofer_iowl/)
- Becker, C. (2009). Exploring the geospatial semantic web with DBpedia mobile. *Web Semantics*, 7(4), 278-286. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1570826809000468>
- Behr, R., & Schneider, M. (2001). Topological relations of complex points and complex regions. Paper presented at the *International Conference on Conceptual Modeling*, Yokohama, Japan. (Lecture Notes in Computer Science 2224) 56-69. Retrieved from <http://www.cise.ufl.edu/~mschneid/Research/papers/BS01ER.pdf>
- Bera, P. (2011). Guidelines for designing visual ontologies to support knowledge identification. *MIS Quarterly*, 35(4), 883. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=2&hid=2&sid=943b8a11-72f3-4575-9fe7-f63f0ec488ff%40sessionmgr10&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=bth&AN=67123622>
- Berg-Cross, G. (2012). *Conceptualization and formalization of geo-semantics and geo-ontologies*. (). Retrieved from [https://blackboard.jmu.edu/bbcswebdav/courses/GEOG465\\_1\\_SP12/Introduction\\_to\\_Geo\\_Semantics\\_and\\_Geo\\_Ontologies\\_4-16-12-Berg-Cross.pdf](https://blackboard.jmu.edu/bbcswebdav/courses/GEOG465_1_SP12/Introduction_to_Geo_Semantics_and_Geo_Ontologies_4-16-12-Berg-Cross.pdf)
- Berners-Lee, T. (2000). *Semantic web- XML 2000* w3c. Retrieved from <http://www.w3.org/2000/Talks/1206-xml2k-tbl/slide17-0.html>
- Berners-Lee, T. (2006, July 27). Linked data. Message posted to <http://www.w3.org/DesignIssues/LinkedData.html>

- Berners-Lee, T., Hendler, J., & Lassila, O. (2001). The semantic web. *Scientific American*, (May), 35-43. Retrieved from [http://www-sop.inria.fr/acacia/cours/essi2006/Scientific%20American\\_%20Feature%20Article\\_%20The%20Semantic%20Web\\_%20May%202001.pdf](http://www-sop.inria.fr/acacia/cours/essi2006/Scientific%20American_%20Feature%20Article_%20The%20Semantic%20Web_%20May%202001.pdf)
- Birbil, P. Y. (2005). *CmpE 494 service-oriented architectures*. Retrieved June 11, 2012, from <http://www.cmpe.boun.edu.tr/courses/cmpe494/fall2005/assignment4.pdf>
- Bishr, Y. (1998). Overcoming the semantic and other barriers to GIS interoperability. *International Journal of Geographical Information Science*, 12(4), 299-314. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=lxh&AN=ISTA3304696&site=eds-live&scope=site>
- Bitters, B. (2008). *Geographic ontologies download page*. Retrieved June 11, 2012, from [http://vissim.uwf.edu/VOT\\_Ontology/Ontology.html](http://vissim.uwf.edu/VOT_Ontology/Ontology.html)
- Bittner, T., Donnelly, M., & Smith, B. (2009). A spatio-temporal ontology for geographic information integration. *International Journal of Geographical Information Science*, 23(6), 765-798. doi: 10.1080/13658810701776767
- Bittner, T., & Winter, S. (1999). In Agouris P., Stefanidis A.(Eds.), *On ontology in image analysis* Springer. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=edsbl&AN=CN033042723&site=eds-live&scope=site>
- Bizer, C. *Bizer-SRIInternational-LinkedDataTalk.pdf (application/pdf object)* Retrieved May 21, 2012, from <http://www.wiwiss.fu-berlin.de/en/institute/pwo/bizer/research/publications/Bizer-SRIInternational-LinkedDataTalk.pdf>

- Bizer, C., Heath, T., Ayers, D., & Raimond, Y. (2007). Interlinking open data on the web. Paper presented at the *European Semantic Web Conference*, Retrieved from <http://www4.wiwi.fu-berlin.de/bizer/pub/LinkingOpenData.pdf>
- Bodenreider, O. (2005). *Lexical and statistical approaches to acquiring ontological relations*. Retrieved May 21, 2012, from [ontology.buffalo.edu/05/wg6/bodenreider.ppt](http://ontology.buffalo.edu/05/wg6/bodenreider.ppt)
- Borges, K. A. V. K. A. V. (2011). Ontology-driven discovery of geospatial evidence in web pages. *GeoInformatica*, 15(4), 609-631. Retrieved from <http://www.springerlink.com/content/y18v057625028635/>
- Bouquet, P., Ghidini, C., Giunchiglia, F., & Blanzieri, E. (2003). Theories and uses of context in knowledge representation and reasoning. *Journal of Pragmatics*, 35, 455-484. doi: 10.1016/S0378-2166(02)00145-5
- Brachman, R. J., & Levesque, H. J. (2004). In Elsevier (Ed.), *Knowledge representation and reasoning*. San Francisco, California: Morgan Kaufman. Retrieved from <http://rair.cogsci.rpi.edu/pai/library/brachmanbook7-17-03.pdf>
- Brodaric, B. (2007). *The pragmatics of geo-ontologies, and the ontology of geo-pragmatics*. Retrieved July 2, 2012, from <http://www.nesc.ac.uk/action/esi/contribution.cfm?Title=712>
- Brodaric, B. (2007). Geo-pragmatics for the geospatial semantic web. *Transactions in GIS*, 11(3), 453-477. doi: 10.1111/j.1467-9671.2007.01055.x
- Brodaric, B., & Gahegan, M. (2007). Experiments to examine the situated nature of geoscientific concepts. *Spatial Cognition & Computation*, 7(1), 61-95. doi: 10.1080/13875860701337934
- Brodeur, J., Bédard, Y., & Moulin, B. (2005). A geosemantic proximity-based prototype for the interoperability of geospatial data. *Computers, Environment and Urban Systems*, 29, 669-698. doi: 10.1016/j.compenvurbsys.2004.04.001

Brooks, C. (2007). *C S 662: AI programming assignment 6: Ontology design*. Retrieved June 11, 2012, from

<http://www.cs.usfca.edu/~brooks/F07classes/cs662/assignments/assignment6.html>

Bruijn, J. d. (2008). *Semantic web technologies labs*. Retrieved May 23, 2012, from

<http://www.kr.tuwien.ac.at/staff/bruijn/priv/teaching/swt/2007-2008/exercises.html>

Bulen, A. N., Carter, J. J., & Varanka, D. E. (2011). A program for the conversion of the national map data from proprietary format to resource description framework (RDF). *U.S. Geospatial Survey Open-File Report, 1142*, 9. Retrieved from

<http://pubs.usgs.gov/of/2011/1142/>

Bulen, A., Carter, J., & Varanka, D. (2010). Building ontology for the national map. Paper presented at the *3rd Annual SOCoP Workshop*, Reston, Virginia. Retrieved from

[http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop\\_Agenda\\_2010\\_12\\_03#nid2K1M](http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop_Agenda_2010_12_03#nid2K1M)

Burger, P. *Vector GIS*. Retrieved August 7, 2012, from

[http://www.saigis.com/geo315/wk10/GIS\\_L9\\_vector\\_WEB.pdf](http://www.saigis.com/geo315/wk10/GIS_L9_vector_WEB.pdf)

Burger, P. (2011). *Constructing the database: Lecture 10*. Retrieved May 22, 2012, from

[http://www.saigis.com/geo315/wk11/GIS\\_L10\\_database\\_WEB.pdf](http://www.saigis.com/geo315/wk11/GIS_L10_database_WEB.pdf)

Burger, P. (2011). *Lab 8: Spatial relationships*. Retrieved May 22, 2012, from

<http://www.saigis.com/geo315/wk12/lab8%20spatial%20relationships.pdf>

Burger, P. (2011). *Relationships among spatial objects*. Retrieved May 22, 2012, from

[http://www.saigis.com/geo315/wk12/GIS\\_L11\\_spatial%20relationships%20among%20objects\\_WEB.pdf](http://www.saigis.com/geo315/wk12/GIS_L11_spatial%20relationships%20among%20objects_WEB.pdf)

Burger, P. (2011). *Topology in ArcGIS*. Retrieved May 22, 2012, from

[http://www.saigis.com/geo315/wk11/Topology\\_in\\_ArcGIS10.pdf](http://www.saigis.com/geo315/wk11/Topology_in_ArcGIS10.pdf)

- Burger, P. (2011). *Vector GIS*. Retrieved May 22, 2012, from [http://www.saigis.com/geo315/wk10/GIS\\_L9\\_vector\\_WEB.pdf](http://www.saigis.com/geo315/wk10/GIS_L9_vector_WEB.pdf)
- Burleson, C. (2010). *Glossary of semantic web terms*. Retrieved June 6, 2012, from <https://wiki.base22.com/display/btg/Glossary+of+Semantic+Web+Terms#23GlossaryofSemanticWebTerms-T>
- Cablitz, G. H. (2008). When "what" is "where": A linguistic analysis of landscape terms, place names and body part terms in marquesan (oceanic, french polynesia). *Language Sciences*, 30(-), 200-226. doi: 10.1016/j.langsci.2006.12.004
- Cai, G. G. (2007). Contextualization of geospatial database semantics for Human–GIS interaction. *GeoInformatica*, 11(2), 217-237. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=15&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=24987923>
- Calvanese, D. (2008). *Ontology-based data access*. Retrieved May 23, 2012, from [http://videlectures.net/iswc07\\_calvanese\\_oda/](http://videlectures.net/iswc07_calvanese_oda/)
- Camara, G., Egenhofer, M. J., Fonseca, F., & Monteiro, A. M. V. (2001). What's in an image? Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.1.9549>
- Campora, S. (2009). *Oracle spatial: A brief guide to oracle spatial extension*. Retrieved June 16, 2012, from <http://www.slideshare.net/camporasimone/oracle-spatial>
- Casati, R., & Varzi, A. (1999). *Parts and places, the structures of spatial representation*. Cambridge, Mass: Massachusetts Institute of Technology Press. Retrieved from <http://mitpress.mit.edu/catalog/item/default.asp?ttype=2&tid=3912>
- Casati, R., Smith, B., & Varzi, A. (1998). Ontological tools for geographic representation. *Formal Ontology in Information Systems*, , 77-85. Retrieved from <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&ved=0CGcQFjA>



[D&url=http%3A%2F%2Fciteseerx.ist.psu.edu%2Fviewdoc%2Fdownload%3Fdoi%3D10.1.1.145.311%26rep%3Drep1%26type%3Dpdf&ei=thrdT5izAYax6wGO39W0Cw&usg=AFQjCNFKZ07NQdN7XxnVS4qDciRtJjIH8w](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.145.311%26rep%3Drep1%26type%3Dpdf&ei=thrdT5izAYax6wGO39W0Cw&usg=AFQjCNFKZ07NQdN7XxnVS4qDciRtJjIH8w)

Chao-Chi Chan, & Shuen-Ren Yu. (2011). Functional ontology and concept maps for knowledge navigation: An application example for contest robot. *Information Technology Journal*, 10(9), 1740-1746. doi: 10.3923/itj.2011.1740.1746

Chen, H. (2007). *Geospatial semantic web*. Retrieved May 23, 2012, from

<http://ebiquity.umbc.edu/resource/html/id/218/Geospatial-Semantic-Web>

Chen, N., Di, L., Yu, G., & Min, M. (2009). A flexible geospatial sensor observation service for diverse sensor data based on web service. *ISPRS Journal of Photogrammetry and Remote Sensing*, 64, 234-242. doi: 10.1016/j.isprsjprs.2008.12.001

Chris, O. (2011). *Nile delta - naucratis*. Retrieved August 7, 2012, from

[http://en.wikipedia.org/wiki/File:Nile\\_Delta\\_-\\_Naucratis.png](http://en.wikipedia.org/wiki/File:Nile_Delta_-_Naucratis.png)

Chung, H., Park, G. & Lee, H. *Learning ontology construction for enhancing learning outcomes of student in higher education*. Retrieved May 23, 2012, from

[http://www.ineer.org/Events/ICEEiCEER2009/full\\_papers/full\\_paper\\_146.pdf](http://www.ineer.org/Events/ICEEiCEER2009/full_papers/full_paper_146.pdf)

CMap Tools. (2012). *Cmap tutorial*. Unpublished manuscript.

*CmpE 494 service-oriented architectures*. (2012). Unpublished manuscript.

Cohn, A. G., & Hazarika, S. M. (2001). Qualitative spatial representation and reasoning: An overview. *Fundamenta Informaticae*, 46(1-2), 1-29. Retrieved from

<http://users.cecs.anu.edu.au/~jrenz/papers/cohn-renz-krbook07.pdf>

Compass. (2009). *Compass: The movie part 1 (discovery)*. Retrieved May 21, 2012, from

<http://www.youtube.com/watch?v=qiNVDnME674>

- Conrad, K. (2002). *Towards a semantic taxonomy*. Retrieved May 21, 2012, from [http://sagebrushgroup.com/archive/20020313\\_SemanticTaxonomy\\_Slides.pdf](http://sagebrushgroup.com/archive/20020313_SemanticTaxonomy_Slides.pdf)
- Corcho, O., & Fernandez-Lopez, A. (2003). Methodologies, tools and languages for building ontologies. where is their meeting point? *Data and Knowledge Engineering*, 46, 41-64. Retrieved from [http://www.ct.aegean.gr/people/vkavakli/MIS/papers/Corcho\\_2003.pdf](http://www.ct.aegean.gr/people/vkavakli/MIS/papers/Corcho_2003.pdf)
- Corcho, O., Blazquez, M. V. & Ramos, J. A. (2010). *Experiences in the development of geographic ontologies and linked data*. Retrieved May 24, 2012, from <http://www.slideshare.net/ocorcho/experiences-in-the-development-of-geographical-ontologies-and-linked-data-5827215>
- Couclelis, H. (2010). Ontologies of geographic information. *International Journal of Geographic Information Science*, 24(12), 1785-1809. Retrieved from <http://web.ebscohost.com/ehost/detail?sid=7e01b27f-7865-4dbb-8293-e0b5c91a572a%40sessionmgr11&vid=1&hid=7&bdata=JnNpdGU9ZWZWhvc3QtbGl2ZSdzY29wZT1zaXRI#db=a9h&AN=55474470>
- Cox, S., & Schade, S. *Linked data in SDI*. Retrieved May 21, 2012, from [http://inspire.jrc.ec.europa.eu/events/conferences/inspire\\_2010/presentations/206\\_pdf\\_presentation.pdf](http://inspire.jrc.ec.europa.eu/events/conferences/inspire_2010/presentations/206_pdf_presentation.pdf)
- Crampton, J. (2010). Ontological issues for the national map. *Cartographica: The International Journal for Geographic Information and Visualization*, 45(2), 103-104.
- Cruz, I. I. F. (2008). Structural alignment methods with applications to geospatial ontologies. *Transactions in GIS*, 12(6), 683-711. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=53&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=35670334>

- Cucchiarelli, A., D'Antonio, F., & Velardi, P. (2012). Semantically interconnected social networks. *Analysis & Mathematical Physics*, 2(1), 69. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=eda&AN=72033390&site=eds-live&scope=site>
- Cui, W., Yao, Y., Yu, Y., & Li, D. (2007). The geo-ontology based on stratified rough sets. *GeoInformatics*, 6754(675406), 1-13. doi: 10.1117/12.764581
- Cui, Z., Jones, D. & O'Brien, P. *Semantic BB integration: Issues in ontology-based approaches*. Retrieved May 21, 2012, from <http://www.sigmod.org/publications/sigmod-record/0203/SPECIAL/7.cui.pdf>
- Dago, E., Blomqvist, E., Gangemi, A., Montiel, E., Nikitina, N., Presutti, V. & Villazon-Terrazas, B. (2005). *Pattern based ontology design-methodology and software support-NeOn-lifecycle support for networked ontologies*. Retrieved June 6, 2012, from [http://www.neon-project.org/nw/images/5/5c/NeOn\\_2010\\_D252.pdf](http://www.neon-project.org/nw/images/5/5c/NeOn_2010_D252.pdf)
- Dauw, J. D. (2011). *Semantic MediaWiki*. Retrieved June 6, 2012, from [http://mapping.referata.com/wiki/Semantic\\_Maps](http://mapping.referata.com/wiki/Semantic_Maps)
- Davies, J. *Semantic web*. Retrieved May 21, 2012, from [www.keapro.net/sekt/SemWebTutorialGeneralJD.ppt](http://www.keapro.net/sekt/SemWebTutorialGeneralJD.ppt)
- Davis, I., & Heath, T. (2009). *The thirty minute guide to RDF and linked data*. Retrieved May 24, 2012, from <http://www.slideshare.net/iandavis/30-minute-guide-to-rdf-and-linked-data>
- DBPedia. (2012). *DBPedia from handbook*. Unpublished manuscript.
- Deliska, B. (2007). Thesaurus and domain ontology of geoinformatics. *Transactions in GIS*, 11(4), 637-651. doi: 10.1111/j.1467-9671.2007.01064.x

- Deng, D. *Building ontology of place name for spatial information retrieval*. Retrieved May 21, 2012, from <http://gisdevelopment.net/technology/gis/ma07259.htm>
- Deruyver, A. (2007). *Qualitative spatial relationships for image interpretation by using semantic graph*. Retrieved May 22, 2012, from [http://videlectures.net/qbr07\\_deruyver\\_qsr/](http://videlectures.net/qbr07_deruyver_qsr/)
- Deursen, D. V., & Torrelle, S. (2011). *The content model for exercises used in the IBBT MAPLE project*. Retrieved May 21, 2012, from <http://multimedialab.elis.ugent.be/organon/ontologies/maple/content#Rect>
- Devaraju, A., & Ortmann, J. *Geospatial semantics*. Retrieved May 23, 2012, from [http://ifgi.uni-muenster.de/~j\\_ortm02/teaching/WS2010/geospatialsemantics.html](http://ifgi.uni-muenster.de/~j_ortm02/teaching/WS2010/geospatialsemantics.html)
- Diamant, E. (2011). Let us first agree on what the term "semantics" means: An unorthodox approach to an age-old debate. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=edsarx&AN=1201.0328&site=eds-live&scope=site>; <http://arxiv.org/abs/1201.0328>
- Digital Bazaar. (2007). *Intro to semantic web*. Retrieved May 30, 2012, from <http://www.youtube.com/watch?v=ohWMclP7XiA&feature=related>
- Dilts, P. (2009). Good nouns, bad nouns: What the corpus says and what native speakers think. *Language and Computers*, 71(1), 103. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=2&hid=2&sid=3807ad5a-90bb-4176-b3f1-d09e28d194df%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=iih&AN=51613237>
- Ding, Y., Sun, Y., Chen, B., Borner, K., Ding, L., & Wild, D. (2010). Semantic web portal: A platform for better browsing and visualizing semantic data. Paper presented at the *International Conference on Active Media Technology*, Toronto, Canada. Retrieved from <http://ivl.cns.iu.edu/km/pub/2010-ding-et-al-swp.pdf>

- Doan, S., Ngo, Q., Kawazoe, A. & Collier, N. (2010). *Building and using geospatial ontology in the BioCaster surveillance*. Retrieved June 11, 2012, from <http://www.docstoc.com/docs/43705878/Building-and-Using-Geospatial-Ontology-in-the-BioCaster-Surveillance#>
- Dodds, L. (2005). *Introducing SPARQL: Querying the semantic web*. Retrieved June 24, 2012, from <http://www.xml.com/pub/a/2005/11/16/introducing-sparql-querying-semantic-web-tutorial.html?page=1>
- Dou, D., McDermott, D. & Qi, P. *Ontology translation on the semantic web*. Retrieved May 21, 2012, from [http://cs-www.cs.yale.edu/homes/dvm/daml/ontomerge\\_odbase.pdf](http://cs-www.cs.yale.edu/homes/dvm/daml/ontomerge_odbase.pdf)
- Durbha, S. S., King, R. L., Shah, V. P., & Younan, N. H. (2009). A framework for semantic reconciliation of disparate earth observation thematic data. *Computers & Geosciences*, 35(4), 761-773. doi: 10.1016/j.cageo.2008.04.011
- Edgewell Software. (2011). *Introduction to creating an ontology with protege*. Retrieved June 11, 2012, from <https://wiki.csc.calpoly.edu/OntologyTutorial/wiki/IntroductionToCreatingAnOntology>
- Educational Software Wikispaces. *CMAP tutorial*. Retrieved June 25, 2012, from <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&ved=0CEgQFjAC&url=http%3A%2F%2Feducationalsoftware.wikispaces.com%2Ffile%2Fview%2FPrincipals%2Bcmap%2Btutorial.doc&ei=IRDpT9ODLInk0gG7meiiDQ&usq=AFQjCNH61BMiSYS1Ur9hLp0ol4jY6pAeow>
- Egenhofer, M. (1989). A formal definition of binary topological relationships. Paper presented at the *Third International Conference on Foundations of Data Organization and Algorithms*, Paris, France. , 367 457-472. Retrieved from <http://www.spatial.maine.edu/~max/fodo.pdf>

Egenhofer, M. (2010). *University of maine spatial information research 3*. Retrieved June 15, 2012, from <http://www.scivee.tv/node/16128>

Egenhofer, M. J. (1994). Spatial SQL: A query and presentation language. *IEEE Transactions on Knowledge and Data Engineering*, 6(1), 86-95. Retrieved from <http://www.spatial.maine.edu/~max/RJ14.html>

Egenhofer, M.,. (2002). Toward the semantic geospatial web. Paper presented at the *10th ACM International Symposium on Advances in Geographic Information Systems*, New York. doi: 10.1145/585147.585148

Egenhofer, M., & Franzosa, R. (1991). Point-set topological spatial relations. *International Journal for Geographic Information Systems*, 5(2), 161-161-174. Retrieved from [ftp://ftp.geoinfo.tuwien.ac.at/wilke/BUP\\_Skriptsammlungen/GeoInfo/\[Pub\]/Egenhofer/\[Egenhofer+Franzosa\]\\_Pointset-Topological\\_Spatial\\_Relations.pdf](ftp://ftp.geoinfo.tuwien.ac.at/wilke/BUP_Skriptsammlungen/GeoInfo/[Pub]/Egenhofer/[Egenhofer+Franzosa]_Pointset-Topological_Spatial_Relations.pdf)

Egenhofer, M., & Franzosa, R. (1995). On the equivalence of topological relations. *International Journal of Geographical Information Systems*, 9(2), 133-152. Retrieved from <http://www.spatial.maine.edu/~max/topRelEquivalence.pdf>

ESRI. (2008). *Tasks for use in ArcGIS explorer*. Retrieved May 21, 2011, from <http://resources.arcgis.com/content/arcgis-explorer/500/tasks>

ESRI. (2008). *Using the GeoNames search task*. Retrieved May 21, 2012, from <http://blogs.esri.com/esri/arcgis/2008/09/23/using-the-geonames-task/>

ArcGIS Explorer Team (Producer), & ESRI (Director). (2008). *Using the GeoNames search task video*. [Video/DVD] Retrieved from [http://downloads2.esri.com/edn/mediacenter/wmv/ArcGISExplorer\\_GeoNames.wmv](http://downloads2.esri.com/edn/mediacenter/wmv/ArcGISExplorer_GeoNames.wmv)

ESRI. (2010). *ArcGIS geodatabase topology rules*. Retrieved May 22, 2012, from [http://www.saigis.com/geo315/wk11/ArcGIS10\\_topology\\_rules\\_poster.pdf](http://www.saigis.com/geo315/wk11/ArcGIS10_topology_rules_poster.pdf)

Fabritius, C. C. V. (2006). Finding the best visualization of an ontology. *The Journal of the Operational Research Society*, 57(12), 1482-1490. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=5&hid=2&sid=943b8a11-72f3-4575-9fe7-f63f0ec488ff%40sessionmgr10&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=bth&AN=23480725>

Federation of Earth Science Information Partners. (2012). *Federation of earth science information partners (ESIP) semantic web cluster*. Retrieved June 6, 2012, from [http://wiki.esipfed.org/index.php/Semantic\\_Web](http://wiki.esipfed.org/index.php/Semantic_Web)

Feigenbaum, L., & Prud'hommeaux, E. (2011). *SPARQL by example: A tutorial*. Retrieved May 21, 2012, from <http://www.cambridgesemantics.com/semantic-university/sparql-by-example>

Feng, C. -, & Flewelling, D. M. (2004). Assessment of semantic similarity between land use/land cover classification systems. *Computers, Environment and Urban Systems*, 28(3), 229-246. doi: 10.1016/S0198-9715(03)00020-6

Fonesca, R. L., & Llano, E. G. (2011). Automatic representation of geographic data from a semantic point of view through a new ontology and classification techniques. *Transactions in GIS*, 15(1), 61-85. doi: 10.1111/j.1467-9671.2010.01242.x

Fonou-Dombeu, J. V. Combining ontology development methodologies and semantic web platforms for E-government domain ontology development. *International Journal of Web & Semantic Technology*, 2 Retrieved from <http://arxiv.org/ftp/arxiv/papers/1104/1104.4966.pdf>

Fonseca, F. T., & Egenhofer, M. J. (1999). *Ontology-driven geographic information systems*. Retrieved May 30, 2012, from [http://www.ida.liu.se/~eriho/Aspects/images/fonseca\\_acmgis.pdf](http://www.ida.liu.se/~eriho/Aspects/images/fonseca_acmgis.pdf)

- Fonseca, F. T., Egenhofer, M. J. & Agouris, P. (2002). *Using ontologies for integrated geographic information systems*. Retrieved May 30, 2012, from <http://www.spatial.maine.edu/~max/UsingOntologies.pdf>
- Fonseca, F., Martin, J., & Rodriguez, M. A. (2002). In Egenhofer M. J., Mark D. M.(Eds.), *From geo- to eco-ontologies* New York, Springer. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=edsbl&AN=CN045193810&site=eds-live&scope=site>
- Fonseca, F., Davis, C., & Câmara, G. (2003). Bridging ontologies and conceptual schemas in geographic information integration. *GeoInformatica*, 7(4), 355. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=10755545&site=eds-live&scope=site>
- Fonseca, F., Egenhofer, M., Davis, C., & Câmara, G. (2002). Semantic granularity in ontology-driven geographic information systems. *Annals of Mathematics & Artificial Intelligence*, 36(1), 121. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=eda&AN=51556478&site=eds-live&scope=site>
- Fonseca, F., & Rodriguez, A. (2007). *From geo-pragmatics to derivation ontologies: New directions for the GeoSpatial semantic web* Wiley-Blackwell. doi: 10.1111/j.1467-9671.2007.01047.x
- Fouad, R., Hashem, M., Badr, N., & Talha, H. (2011). Exploring a hybrid of geospatial semantic information in ubiquitous computing environments. *International Journal of Computer Science Issues (IJCSI)*, 8(6), 117-121. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=iih&AN=73204406&site=eds-live&scope=site>



Frank, A. U. (1995). *Qualitative spatial reasoning: Cardinal directions as an example*.

Retrieved May 30, 2012, from <http://www.slideshare.net/amenitya/qualitative-spatial-reasoning-cardinal-directions-as-an-example-presentation>

Frank, A. U. (2001). Tiers of ontology and consistency constraints in geographic information systems. *International Journal of Geographic Information Science*, 15(7), 667-678.

Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.28.3828>

Frank, A. U. (2003). Ontology for spatio-temporal databases., 9-77. Retrieved from

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.22.6121>

Franz Inc. (2012). *AllegroGraph RDFStore*. Retrieved June 6, 2012, from

<http://www.franz.com/agraph/>

Freebase. (2011). *Freebase*. Retrieved June 6, 2012, from <http://www.freebase.com/>

Gahengan, M., Luo, J., Weaver, S. D., Pike, W., & Banchuen, T. (2009). Connecting GEON: Making sense of the myriad resources, researchers, and concepts that compromise a geoscience cyberinfrastructure. *Computers and Geosciences*, 35(4), 836-854. doi: 10.1016/j.cageo.2008.09.006

Galton, A. (2003). Desiderata for a spatio-temporal geo-ontology. Paper presented at the *COSTIT 2003*, Kartause Ittingen. , 2003(2825) doi: 10.1007/978-3-540-39923-0\_1

Galton, A. *Integrating fields and objects in geographic information science*. (). UK: University of Exeter. Retrieved from

[https://docs.google.com/viewer?a=v&q=cache:NfUlnGpKGQQJ:citeseerx.ist.psu.edu/viewdoc/download%3Fdoi%3D10.1.1.98.259%26rep%3Drep1%26type%3Dpdf+&hl=en&gl=us&pid=bl&srcid=ADGEESgAN00FbPq-C09fjP79bstHJHzXK3vDxdRZUvDgrJr02fK\\_JIzccgR5XQVJb0U8aV2SUVugIKC\\_Iyg\\_FGJUW\\_MjTn56Jo11rfIOttLS5JxPgh2LxchySMgJuPCbybRFe0Fyhiaz&sig=AHIEtbQNozLEUHKLLAFxgYbc1OhUGemFg](https://docs.google.com/viewer?a=v&q=cache:NfUlnGpKGQQJ:citeseerx.ist.psu.edu/viewdoc/download%3Fdoi%3D10.1.1.98.259%26rep%3Drep1%26type%3Dpdf+&hl=en&gl=us&pid=bl&srcid=ADGEESgAN00FbPq-C09fjP79bstHJHzXK3vDxdRZUvDgrJr02fK_JIzccgR5XQVJb0U8aV2SUVugIKC_Iyg_FGJUW_MjTn56Jo11rfIOttLS5JxPgh2LxchySMgJuPCbybRFe0Fyhiaz&sig=AHIEtbQNozLEUHKLLAFxgYbc1OhUGemFg)

- Gandon, F. (2007). *SQARQL in a nutshell*. Retrieved May 23, 2012, from [http://www.slideshare.net/fabien\\_gandon/sparql-in-a-nutshell](http://www.slideshare.net/fabien_gandon/sparql-in-a-nutshell)
- Gangemi, A., & Presutti, V. (2009). Ontology design patterns. In S. Staab, & R. Studer (Eds.), *Handbook of ontologies* (2nd ed., pp. 1-23). Berlin: Springer. Retrieved from [http://hem.hj.se/~blev/HandbookChapter\\_ODPs.pdf](http://hem.hj.se/~blev/HandbookChapter_ODPs.pdf)
- Gauker, C. C. (2012). What tipper is ready for: A semantics for incomplete predicates incomplete predicates. *Noûs (Bloomington, Indiana)*, 46(1), 61-85. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=5&hid=2&sid=3807ad5a-90bb-4176-b3f1-d09e28d194df%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=72094254>
- Gennari, J. (2005). *Exercise 1: Building an ontology (in protege)*. Retrieved May 21, 2012, from <http://courses.washington.edu/mebi550/OntoBuilding.html>
- Gennari, J. (2005). *Exercise 2: Building and using an ontology (in protege w\ jess tab)* Retrieved May 21, 2012, from <http://courses.washington.edu/mebi550/HandsOn-part2.html>
- Gennari, J. (2005). *Knowledge representation and applications*. Retrieved June 11, 2012, from <http://courses.washington.edu/mebi550/assignments.html>
- GeoSparql.org. (2012). *GeoSparql.org*. Unpublished manuscript.
- GeoVISTA Center. (2010). *GeoDeliverator*. Retrieved May 21, 2012, from [http://www.youtube.com/watch?v=jUI2zOoio6k&feature=results\\_main&playnext=1&list=PL49871F111F460EB5](http://www.youtube.com/watch?v=jUI2zOoio6k&feature=results_main&playnext=1&list=PL49871F111F460EB5)
- GeoVocab. (2011). *NeoGeo vocabulary*. Retrieved June 6, 2012, from <http://geovocab.org/doc/survey.html>

- Girardi, C. (2008). *Multi word net*. Retrieved June 27, 2012, from <http://multiwordnet.fbk.eu/english/home.php>
- Goble, C., De Roure, D., Pierce, M. & Bechhofer, S. *Semantic grid*. Retrieved May 21, 2012, from [www.semanticgrid.org/GGF/ggf12/GGF12TutorialPart1-introduction.ppt](http://www.semanticgrid.org/GGF/ggf12/GGF12TutorialPart1-introduction.ppt)
- Gomez, S. A., Chesnevar, C. I. & Simari, G. R. *Problems and challenges for ontology integration in the semantic web*. Retrieved May 23, 2012, from [http://ficcte.unimoron.edu.ar/wicc/Trabajos/I%20-%20asi/593-Gomez\\_Chesnevar\\_Simari\\_Wicc2006.pdf](http://ficcte.unimoron.edu.ar/wicc/Trabajos/I%20-%20asi/593-Gomez_Chesnevar_Simari_Wicc2006.pdf)
- Gomez-Perez, A., Fernandez-Lopez, M. & Corcho, O. *Ontological engineering.pdf (application/pdf object)* Retrieved May 21, 2012, from <http://www.imamu.edu.sa/topics/IT/IT%206/Ontological%20Engineering.pdf>
- Goodchild, M., Yuan, M., & Covas, T. J. (2007). Towards a general theory of geographic representation in GIS. *International Journal of Geographic Information Science*, 21(3), 239-260. Retrieved from <http://www.tandfonline.com/doi/pdf/10.1080/13658810600965271>
- Goodwin, J. *John goodwin's homepage*. Retrieved June 6, 2012, from <http://www.johngoodwin.me.uk/>
- Google. (2012). *Google earth*. Retrieved August 7, 2012, from <http://www.google.com/earth/index.html>
- Google. (2012). *The search engine problem: Lack of 'knowledge'*. Retrieved May 24, 2012, from [http://news.cnet.com/2300-1023\\_3-10012309.html](http://news.cnet.com/2300-1023_3-10012309.html)
- Gramene. (2011). *Gramene's ontologies tutorial*. Retrieved May 21, 2012, from <http://www.slideshare.net/FOODCROPS/ontologies-gramene-tutorial>

- Green, R., Bean, C. A., & Myaeng, S. H. (2003). The semantics of relationships—An interdisciplinary perspective. *Computational Linguistics*, 29(2), 325-327. doi: 10.1162/coli.2003.29.2.325
- Group On Earth Observations. (2010). *Ontology and taxonomy help you find necessary information at GEOSS*. Retrieved May 30, 2012, from <http://www.youtube.com/watch?v=wdrpyrbV9u0>
- Gruber, T. (2007). Ontology of folksonomy- A mash-up of apples and oranges. *International Journal on Semantic Web and Information Systems*, 3(1), 11. Retrieved from <http://tomgruber.org/writing/ontology-of-folksonomy.htm>
- Gruber, T. (1995). Towards principles of the design of ontologies used for knowledge sharing. *International Journal Human-Computer Studies*, 43(5-6), 907-928. Retrieved from <http://tomgruber.org/writing/onto-design.htm>
- Guarino, N. (1998). Formal ontology and information systems. Paper presented at the FOIS '98, Tranto, Italy. 3-15.
- Guarino, N. (2004). *Formal ontology and information systems*. Retrieved May 21, 2012, from [osm.cs.byu.edu/CS652s04/FormalOntology.ppt](http://osm.cs.byu.edu/CS652s04/FormalOntology.ppt)
- Guarino, N., & Welty, C. (2002). EVALUATING ONTOLOGICAL DECISION with ONTOCLEAN. *Communications of the ACM*, 45(2), 61-65. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=bth&AN=6280226&site=eds-live&scope=site>
- Guempel, G. (2011). Semantic mediation & OWS 8. Paper presented at the *Spatial Ontology COP Workshop*, Reston, Virginia. Retrieved from <http://ontolog.cim3.net/cgi-bin/wiki.pl?SocopWorkshop2011>
- Gulkund. (2007). *CS646 lab and mini-project assignment*. Retrieved June 1, 2012, from <http://www.authorstream.com/Presentation/Gulkund-7793-CS646-lab-mini-project->

[requirements-2007-CS60461-Lab-Mini-Assignment-Mechanics-Summary-Labs-labs-Commenting-documentation-tes-cs646-and-ppt-powerpoint/](#)

- Gulla, J. A. (2009). *TDT44 semantic web exercise*. Retrieved May 29, 2012, from <http://www.idi.ntnu.no/emner/tdt44/handouts/Semantic%20Web%20Exercises.pdf>
- Guptill, S. (1990). *An enhanced digital line graph design: U.S. geological survey circular 1048*. Retrieved from <http://pubs.usgs.gov/circ/1990/1048/report.pdf>
- Hahmann, S., & D'Antonio, F. (2010). Connecting LinkedGeoData and geonames in the spatial semantic web. Paper presented at the *6th International GIScience Conference, Zurich, Switzerland*. Retrieved from [http://kartographie.geo.tu-dresden.de/aigaion/attachments/Hahmann\\_Burghardt\\_LinkedGeoData\\_Geonames.pdf-c9d454e361d4e3188da338f4ffc66864.pdf](http://kartographie.geo.tu-dresden.de/aigaion/attachments/Hahmann_Burghardt_LinkedGeoData_Geonames.pdf-c9d454e361d4e3188da338f4ffc66864.pdf)
- Harrie, L., & Stuckenschmidt, H. (2009). Cartographic and semantic aspects on web services. Paper presented at the *Dagstuhl Seminar Proceedings, (09161)* Retrieved from <http://drops.dagstuhl.de/volltexte/2009/2134/pdf/09161.StuckenschmidtHeiner.ExtAbstract.2134.pdf>
- Hawke, S. (2002). *How the semantic web works*. Retrieved May 21, 2012, from <http://www.w3.org/2002/03/semweb/>
- Hendler, J. (2009). Web 3.0 emerging. *The IEEE Computer Society, 0018-9162(09)*, 111-113. Retrieved from <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4755170>
- Herman, I. (2008). *Introduction to the semantic web*. Retrieved May 21, 2012, from [http://www.slideshare.net/ivan\\_herman/semantic-web-tutorial-at-estc2008-vienna-on-september-24-2008-presentation](http://www.slideshare.net/ivan_herman/semantic-web-tutorial-at-estc2008-vienna-on-september-24-2008-presentation)
- Herman, I. (2008). *Introduction to the semantic web*. Retrieved May 21, 2012, from <http://www.slideshare.net/quest262aaa/introduction-to-the-semantic-web>

Herman, I. (2009). *Introduction to the semantic web (tutorial)*. Retrieved May 21, 2012, from [http://www.slideshare.net/ivan\\_herman/introduction-to-semantic-web](http://www.slideshare.net/ivan_herman/introduction-to-semantic-web)

Herman, I. (2010). *Tutorial on semantic web*. Retrieved June 16, 2012, from <http://www.w3.org/Consortium/Offices/Presentations/RDFTutorial/>

Hitzler, P., & Janowicz, K. (2012). Semantic web—Interoperability, usability, applicability. *IOS PRes*, 3(1) Retrieved from <http://iospress.metapress.com/content/c674163310383656/fulltext.pdf>

Hitzler, P., & van Harmelen, F. (2010). A reasonable semantic web. *Semantic Web*, , 39-44. Retrieved from <http://knoesis.wright.edu/pascal/resources/publications/HH-ARSW.pdf>

Hitzler, P., Krötzsch, M., & Rudolph, S., Dr. (2010). *Foundations of semantic web technologies / pascal hitzler, markus krötzsch, sebastian rudolph* Boca Raton : CRC Press, c2010.

Hobbs, J., Blythe, J., Chalupsky, H., & Russ, T. (2006). *A survey of geospatial resources, representation, and reasoning*. ().University of Southern California. Retrieved from <http://www.isi.edu/isd/LOOM/papers/russ/geospatial-report-public.pdf>

Hoekstra, R. R. (2010). Spatial planning on the semantic web. *Transactions in GIS*, 14(2), 147-161. Retrieved from [http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CE8QFjAA&url=http%3A%2F%2Fciteseerx.ist.psu.edu%2Fviewdoc%2Fdownload%3Fdoi%3D10.1.1.156.4382%26rep%3Drep1%26type%3Dpdf&ei=XbiT7-sNarC0QGUhZylAw&usg=AFOjCNGkhFL\\_MZLTMYIU8vGHAb9kqdQTpg](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CE8QFjAA&url=http%3A%2F%2Fciteseerx.ist.psu.edu%2Fviewdoc%2Fdownload%3Fdoi%3D10.1.1.156.4382%26rep%3Drep1%26type%3Dpdf&ei=XbiT7-sNarC0QGUhZylAw&usg=AFOjCNGkhFL_MZLTMYIU8vGHAb9kqdQTpg)

Holohan, E. E., Melia, M., McMullen, D., & Pahl, C. (2006). The generation of E-learning exercise problems from subject ontologies. Paper presented at the *6th International Conference on Advanced Learning Technologies*, The Netherlands. 967-969. Retrieved from [http://doras.dcu.ie/15945/1/The\\_Generation\\_of\\_E-Learning\\_Exercise\\_Problems\\_from\\_Subject\\_Ontologies.pdf](http://doras.dcu.ie/15945/1/The_Generation_of_E-Learning_Exercise_Problems_from_Subject_Ontologies.pdf)

- Hornsby, K. (2004). *Retrieving event-based semantics from images* Los Alamitos, IEEE Computer Society. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=edsbl&AN=CN063763687&site=eds-live&scope=site>
- Hornsby, K. K. S. (2010). Combining ontologies to automatically generate temporal perspectives of geospatial domains. *GeoInformatica*, 14(4), 481-505. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=2&hid=4&sid=1e772dae-f794-4ed5-ada2-97215ccd39c3%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=51598873>
- HorrIDGE, M. (2007). *A practical guide to building OWL ontologies using Protégé 4 and CO-ODE tools* Retrieved from [http://owl.cs.manchester.ac.uk/tutorials/protegeowltutorial/resources/ProtegeOWLTutorialP4\\_v1\\_3.pdf](http://owl.cs.manchester.ac.uk/tutorials/protegeowltutorial/resources/ProtegeOWLTutorialP4_v1_3.pdf)
- HorrIDGE, M. (2009). *A practical guide to building OWL ontologies using protege 4 and CO-ODE tools* Retrieved May 21, 2012, from <http://people.cs.vt.edu/~kafura/ComputationalThinking/Class-Notes/Tutorial-Highlighted-Day1.pdf>
- Hutchison, D., Kanade, T., Kittler, J., Kleinberg, J. M., Mattern, F., Mitchell, J. C., . . . Bittner, T. (2007). From top-level to domain ontologies: Ecosystem classifications as a case study. (pp. 61) Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=eda&AN=33176031&site=eds-live&scope=site>
- Hwang, J. S. (2004). *Using formal ontology for integrated spatial data mining*. Retrieved May 23, 2012, from <http://www.slideshare.net/Tommy96/using-formal-ontology-for-integrated-spatial-data-mining>

Institute of Cognitive Science and Technology. *Laboratory for applied ontology*. Retrieved June 6, 2012, from <http://www.loa.istc.cnr.it/>

International Council of Museums. (2006). *CIDOC—Conceptual reference model*. Retrieved June 6, 2012, from <http://www.cidoc-crm.org/index.html>

IOAO. (2012). *International association for ontology and its applications (IOAO)*. Retrieved June 6, 2012, from <http://www.iaoa.org/>

Isaac, A. (2009). *Cultural heritage and the semantic web*. Retrieved May 29, 2012, from <http://webkr.cs.vu.nl/slides/swch.pdf>

Jacob, E. K. (2005). *L697: Advance topics in information science: Ontologies, summer II course syllabus*. Retrieved May 23, 2012, from [http://www.slis.indiana.edu/syllabi/summerII\\_2005/l697\\_jacob.html](http://www.slis.indiana.edu/syllabi/summerII_2005/l697_jacob.html)

Janowicz, K., Raubal, M., & Levashkin, S. (2009). GeoSpatial semantics. Paper presented at the *3rd International Conference*, Mexico City, Mexico. , *Lecture Notes in Computer Science 5892* doi: 10.1007/978-3-642-10436-7

Janowicz, K., Raubal, M., & Levashkin, S. (2009). SPARQL query Re0writing using partonomy based transformation rules. Retrieved from <http://knoesis.org/library/resource.php?id=00713>

Janowicz, K. (2010). Reexamining fiat, bona fide, and force dynamic boundaries for geopolitical entities and their placement in DOLCE. *Semantic Web Journal*, 108 Retrieved from <http://www.semantic-web-journal.net/content/reexamining-fiat-bona-fide-and-force-dynamic-boundaries-geopolitical-entities-and-their-plac>

Janowicz, K. (2011). Design and development of linked data from the national map. *Semantic Web Journal*, 180 Retrieved from <http://www.semantic-web-journal.net/content/design-and-development-linked-data-national-map>



- Janowicz, K. (2011). Linked geo data: A core for a web of spatial open data. *Semantic Web Journal*, 173, 1-22. Retrieved from <http://www.semantic-web-journal.net/content/linkedgeodata-core-web-spatial-open-data>
- Janowicz, K., Kebler, C., Broring, A., Stasch, C., & Schade, S. (2009). Towards semantic enablement for spatial data infrastructures. Paper presented at the *European Conference on Smart Sensing and Context*, Retrieved from [http://carsten.io/eurossc09\\_sel.pdf](http://carsten.io/eurossc09_sel.pdf)
- Janowicz, K., Schade, S., & Lehmann, J. (2011). Enabling the geospatial semantic web with parliament and GeoSPARQL. *Semantic Web*, doi: 10.3233/SW-2012-0065
- Jarrar, M. (2011). *Ontology: Part 1 introduction*. Retrieved May 21, 2012, from <http://www.slideshare.net/palgov/jarrarlecture-notesaai2011sontology-part1introduction>
- Jarrar, M. (2011). *Ontology: Part 2 what is ontology?* Retrieved May 21, 2012, from <http://www.slideshare.net/palgov/jarrarlecture-notesaai2011sontology-part2whatisontology>
- Jitkajornwanich, K., Elmasri, R., Li, C., & McEnery, J. Formalization of 2-D spatial ontology and OWL/Protege realization. doi: 10.1145/1999299.1999308
- Jones, C. (2007). *Geographical web search engines and geographical information retrieval (GIR)*. Retrieved July 2, 2012, from <http://www.nesc.ac.uk/action/esi/contribution.cfm?Title=712>
- Jupp, S., Horridge, M., Iannone, L., Klein, J., & Owen, S. (2011). Populous: A tool for building OWL ontologies from templates. *BMC Bioinformatics*, 13(Suppl 1), 1-12. doi: 10.1186/1471-2105-13-S1-S5
- Kainz, W. (2010). *The mathematics of GIS*. (Draft No. 2012). Vienna, Austria: University of Vienna. Retrieved from [http://homepage.univie.ac.at/wolfgang.kainz/Lehrveranstaltungen/15th\\_Nordic\\_Summer\\_School/The\\_Mathematics\\_of\\_GIS\\_Draft.pdf](http://homepage.univie.ac.at/wolfgang.kainz/Lehrveranstaltungen/15th_Nordic_Summer_School/The_Mathematics_of_GIS_Draft.pdf)

Kapoor, K., & Padukone, A. *Geographic information systems: Data models and their implementation*. (). University of Minnesota: Computer Science and Engineering Department. Retrieved from [http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=16&ved=0CIgBEBYwBTgK&url=http%3A%2F%2Fwww-users.cs.umn.edu%2F~padukone%2Fcs5980%2Fmidterm%2Fmidterm\\_ppt.ppt&ei=hjHdT5iWHa3p6QH6xY3GCw&usq=AFQjCNFDr7RNCuzyEsXJuUEITmHgGM1crQ](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=16&ved=0CIgBEBYwBTgK&url=http%3A%2F%2Fwww-users.cs.umn.edu%2F~padukone%2Fcs5980%2Fmidterm%2Fmidterm_ppt.ppt&ei=hjHdT5iWHa3p6QH6xY3GCw&usq=AFQjCNFDr7RNCuzyEsXJuUEITmHgGM1crQ)

Kavouras, M. (2004). A unified ontological framework for semantic integration. *Next generation geospatial information* (). The Netherlands: Taylor & Francis. Retrieved from [http://www.ntua.gr/ontogeo/publications/Kavouras\\_Marinos\\_01.pdf](http://www.ntua.gr/ontogeo/publications/Kavouras_Marinos_01.pdf)

Kavouras, M., & Kokla, M. (2008). *Theories of geographic concepts: Ontological approaches to semantic integration*. Boca Raton, FL: CRC Press.

Kavouras, M., Kokla, M., & Tomai, E. (2003). Determination, visualization, and interpretation of semantic similarity among different geographic ontologies. Paper presented at the *6th AGILE Conference on Geographic Information Science*, Lyon, France. Retrieved from <http://www.ntua.gr/ontogeo/publications/agile2003.pdf>

Keet, M. (2012). *Ontologies and knowledge bases module (COMP718)-2012, semester 1*. Retrieved May 21, 2012, from <http://www.meteck.org/teaching/okb12/CourseOutlineOKB12.pdf>

Kendall, E., & McGuinness, D. (2011). *Ontology 101: An introduction to knowledge representation, the web ontology language (OWL) & ontology development*. Retrieved May 21, 2012, from <http://www.slideshare.net/thematixpartners/ontology101-20110604-kendallmcguinness>

Khaled, R., Tayeb, L. M., Okba, K., & Servigne, S. (2009). Geospatial web services semantic discovery approach using metadata and multi-agents system. *International Review on Computers & Software*, 4(1), 26-33. Retrieved from

<http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=38026539&site=eds-live&scope=site>

Kingston, J. (2008). Multi-perspective ontologies: Resolving common ontology development problems. *Expert Systems with Applications*, 34, 541-550. doi: 10.1016/j.eswa.2006.09.040

Klein, E. (2008). *Semantics exercises*. Retrieved May 21, 2012, from <http://homepages.inf.ed.ac.uk/ewan/spnlp/sem-exercise.html>

Knublauch, H. (2007). *Using the sparql query engine with protege-owl*. Retrieved May 21, 2012, from <http://protege.stanford.edu/doc/sparql/>

Kokla, M., & Kavouras, M. (2001). Fusion of top-level and geographical domain ontologies based on context formation and complementarity. *International Journal of Geographic Information Science*, 15(7), 679-687. Retrieved from [http://www.ntua.gr/ontogeo/publications/kokla\\_kavouras\\_IJGIS2001.pdf](http://www.ntua.gr/ontogeo/publications/kokla_kavouras_IJGIS2001.pdf)

Kolas, D. (2012). *OntologWiki: InteropProject / GeoSparql user guide 2012*. Retrieved June 6, 2012, from [http://ontolog.cim3.net/cgi-bin/wiki.pl?InteropProject/Geosparql\\_USER\\_GUIDE\\_2012](http://ontolog.cim3.net/cgi-bin/wiki.pl?InteropProject/Geosparql_USER_GUIDE_2012)

Kolas, D., Hebel, J., & Dean, M. (2005). Geospatial semantic web: Architecture of ontologies. *Lecture Notes in Computer Science*, 3799(2005), 183-194. Retrieved from <http://www.springerlink.com/content/17x5k1522k450h33/>

Komazec, S. *Exercise sheet 10 ontologies*. Retrieved June 1, 2012, from [http://teaching-wiki.sti2.at/uploads/8/8f/SW\\_Tutorial\\_-\\_10\\_-\\_Ontologies.pdf](http://teaching-wiki.sti2.at/uploads/8/8f/SW_Tutorial_-_10_-_Ontologies.pdf)

Ku, W., Chen, H., Wang, C., & Liu, C. (2011). Geo-store: A framework for supporting semantics enabled location-based services with RDF triple stores. *IEEE Internet Computing*, 1089(7801), 1-17. Retrieved from <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6133258>

- Kuhn, W. (2001). Ontologies in support of activities in geographical space. *International Journal for Geographic Information Systems*, 15(7), 613-631. Retrieved from <http://ifgi.uni-muenster.de/~kuhn/research/publications/pdfs/refereed%20journals/IJGIS%202001.pdf>
- Kuhn, W. W. (2005). Geospatial semantics: Why, of what, and how? *Journal on Data Semantics III*, 3534(587) doi: 10.1007/11496168\_1
- Kulik, L., Duckham, M., & Egenhofer, M. (2005). Ontology-driven map generalization. *Journal of Visual Languages and Computing*, 16, 245-267. doi: 10.1016/j.jvlc.2005.02.001
- Kyzirakos, K. (2012). Geospatial data in the semantic web: GeoSPARQL. Paper presented at the *Extended Semantic Web Conference*, Retrieved from [http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CDsQFjAB&url=http%3A%2F%2Fwww.strabon.di.uoa.gr%2Ffiles%2Feswc2012%2FSession4.pptx&ei=ao7eT-eGBKuN6AHq\\_O2xCw&usq=AFQjCNEMRS7wYoMYBpE7sFZosocHoVOeqw](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CDsQFjAB&url=http%3A%2F%2Fwww.strabon.di.uoa.gr%2Ffiles%2Feswc2012%2FSession4.pptx&ei=ao7eT-eGBKuN6AHq_O2xCw&usq=AFQjCNEMRS7wYoMYBpE7sFZosocHoVOeqw)
- Lab exercises for theme 3-ontology tools*. (2011). Unpublished manuscript.
- Laboratory for Applied Ontology. *DOLCE—Descriptive ontology for linguistic and cognitive engineering*. Retrieved June 6, 2012, from <http://www.loa.istc.cnr.it/DOLCE.html>
- Lauser, B. (2004). *Tutorial 2: Ontology tools*. Retrieved May 21, 2012, from <http://www.slideshare.net/faoaims/tutorial-2-ontology-tools>
- LeClair, R. (2009). Topology in ArcGIS. Paper presented at the *2009 ESRI Education User Conference*, San Diego, CA. Retrieved from [http://www.saigis.com/geo315/wk11/ArcGIS\\_Topology\\_User\\_Conf09\\_PPT.pdf](http://www.saigis.com/geo315/wk11/ArcGIS_Topology_User_Conf09_PPT.pdf)
- Lee, J., Liu, Y., & Yu, L. (2011). SGST: An open source semantic GeoStreaming toolkit. Paper presented at the *International Workshop on GeoStreaming*, Retrieved from <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=20&ved=0CHgQFj>

[AJOAo&url=http%3A%2F%2Fwww.strabon.di.uoa.gr%2Ffiles%2Feswc2012%2FSession4.pptx&ei=rencT6zCILCM6QHLYzIqCw&usg=AFQjCNHFZRtidaeONtecFDP1jWevBUMajg](http://www.strabon.di.uoa.gr/files/Feswc2012/Session4.pptx&ei=rencT6zCILCM6QHLYzIqCw&usg=AFQjCNHFZRtidaeONtecFDP1jWevBUMajg)

Lee, G. G. (2011). What information can or cannot be exchanged? *Journal of Computing in Civil Engineering*, 25(1), 1. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=2&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=55830884>

Lembo, D. (2008). *Ontology-based data access*. Retrieved May 23, 2012, from [http://videlectures.net/iswc07\\_lembo\\_oda/](http://videlectures.net/iswc07_lembo_oda/)

Liang, A. (2004). *Tutorial 1: Ontologies*. Retrieved May 21, 2012, from <http://www.slideshare.net/faoaims/tutorial-1-ontologies>

Lieberman, J. (2007). *Geospatial semantic web: Is there life after geo: Lat and geo:Long*. Retrieved May 29, 2012, from <http://www.nesc.ac.uk/action/esi/download.cfm?index=3407>

Lieberman, J. (2007). *Geospatial semantic web: Is there life after geo:Lat and geo:Long*. Retrieved May 21, 2012, from <http://www.nesc.ac.uk/action/esi/download.cfm?index=3407>

Ling, & Xia, F. (2012). *Semantics*. Retrieved May 21, 2005, from [faculty.washington.edu/fxia/courses/LING571/11\\_1.ppt](http://faculty.washington.edu/fxia/courses/LING571/11_1.ppt)

Linked Data. *Linked open data initiative*. Retrieved from <http://linkeddata.org/>

LinkedDataTools. (2009). *Tutorial 4: Introducing RDFS & OWL*. Retrieved May 23, 2012, from <http://www.linkeddatatools.com/introducing-rdfs-owl>



Lopez, X. (2012). *A proposal for OGC draft candidate standard*. Retrieved June 16, 2012, from <https://opensource.ncsa.illinois.edu/confluence/display/SGST/Semantic+Geostreaming+Toolkit>

Lopez-Pellicer, F. J., Silva, M. J., Chaves, M., Zarazaga-Soria, F. J., & Muro-Medrano, P. R. (2010). Geo linked data. *Database and Expert Systems Applications*, 6261(2010), 495-502. doi: 10.1007/978-3-642-15364-8\_42

Loudon, T. V. (2009). Four interacting aspects of a geological survey knowledge system. *Computers & Geosciences*, 35(4), 700-705. doi: 10.1016/j.cageo.2007.12.009

Lutz, M., & Klien, E. (2006). Ontology-based retrieval of geographic information. *International Journal of Geographic Information Science*, 20(3), 233-260. Retrieved from <http://www.mendeley.com/research/ontologybased-retrieval-of-geographic-information/>

Lutz, M., Sprado, J., Klien, E., Schubert, C., & Christ, I. (2009). Overcoming semantic heterogeneity in spatial data infrastructures. *Computers and Geosciences*, 35, 739-752. doi: 10.1016/j.cageo.2007.09.017

Marcheggiani, E., Nucci, M., Tummarello, G., & Morbidoni, C. (2008). Geo semantic web communities for rational use of landscape resources. Paper presented at the *2nd Workshop COST Action*, , C21 100-113. Retrieved from [http://www.towntology.net/meetings/0710-torino/articles/08paper%20\(100-113\).pdf](http://www.towntology.net/meetings/0710-torino/articles/08paper%20(100-113).pdf)

Mark, D. M., & Smith, B. (2004). A science of topography: From qualitative ontology to digital representations. *Geographic information science and mountain geomorphology* (Bishop, M.P.; Shroder, J.F. ed., pp. 75-97). Chichester, England: Springer-Praxis. Retrieved from <http://ontology.buffalo.edu/smith/articles/topography.pdf>

Mark, D. *Geospatial categories in Information retrieval from Virtual globes: Cultural and linguistic variation in geographic feature categorization and delimitation*. (). University at Buffalo.

- Mark, D., Skupin, A., & Smith, B. (2001). Features, objects, and other things: Ontological distinctions in the geographic domain. *Lecture Notes in Computer Science*, , 488-502. Retrieved from <http://geography.sdsu.edu/People/Pages/skupin/research/pubs/COSIT01MSS.pdf>
- Mark, D., Smith, B., Egenhofer, M., & Hirtle, S. (2000). *UCGIS emerging research theme: Ontological foundations for geographic information science*. (). Retrieved from <http://www.spatial.maine.edu/~max/UCGIS-Ontologies.pdf>
- Massachusetts Institute of Technology. (2009). *Ontologies: (6.871) lecture 22*. Retrieved May 21, 2012, from <http://www.slideshare.net/kcmani/ontologies>
- Mathews, A. (2008). *Understanding SPARQL: Create journaling micro-blogs with the semantic web*. Retrieved May 23, 2012, from <http://www.ibm.com/developerworks/xml/tutorials/x-sparql/>
- Matuszek, P., & Paplakari, M. (2005). *Semantics and semantic analysis*. Retrieved May 21, 2012, from [www.csc.villanova.edu/~nlp/lec08-Semantics.ppt](http://www.csc.villanova.edu/~nlp/lec08-Semantics.ppt)
- Maue, P., & Roman, D. (2009). *Geospatial decision making in the semantic web*. Retrieved May 21, 2012, from <http://www.iaia.org/conferences2009/filesGEOWS09/GeospatialDecisionMakingInTheSemanticWeb.pdf>
- McGuinness, D. (2003). *Ontologies come of age*. ().MIT Press. Retrieved from [http://www.ksl.stanford.edu/people/dlm/papers/ontologies-come-of-age-mit-press-\(with-citation\).htm](http://www.ksl.stanford.edu/people/dlm/papers/ontologies-come-of-age-mit-press-(with-citation).htm)
- Meier, M., & Wei, F. (2010). *Webbasierte informationssysteme*. Retrieved June 14, 2012, from <http://dbis.informatik.uni-freiburg.de/content/courses/WS1011/Spezialvorlesung/Webbasierte%20Informationssysteme/uebungen/blatt1.pdf>



- Mendes, P. (2011). *DBPedia*. Retrieved June 6, 2012, from <http://dbpedia.org/About>
- Microarray Gene Expression Database group. *Ontologies working group agenda MGED3*. Retrieved May 21, 2012, from [mged.sourceforge.net/ontologies/OWG-MGED3.ppt](http://mged.sourceforge.net/ontologies/OWG-MGED3.ppt)
- Mika, P., & Tran, T. (2011). *Semantic search tutorial introduction*. Retrieved May 21, 2012, from <http://www.slideshare.net/pmika/semtech-2011-semantic-search-tutorial>
- Minteer, C. (2004). What we observed in teaching general semantics. *ETC: A Review of General Semantics*, 61(4), 482-486. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=16&hid=4&sid=1e772dae-f794-4ed5-ada2-97215ccd39c3%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=15143220>
- Missouri University of Science and Technology. *Parliament query server*. Retrieved June 6, 2012, from <http://usgs-ybotherv.srv.mst.edu:8890/parliament/>
- Mizoguch Lab. (2011). *Ho-zo: An environment for building/ using ontologies*. Retrieved June 27, 2012, from [http://www.ei.sanken.osaka-u.ac.jp/hozo/eng/index\\_en.php](http://www.ei.sanken.osaka-u.ac.jp/hozo/eng/index_en.php)
- Mizoguchi, R. (2005). *How to build ontologies: Examples and guidelines*. Retrieved May 24, 2012, from <http://www.win.tue.nl/SW-EL/2005/swel05-kcap05/proceedings/K-CAP05How-ToBuild-Onto.pdf>
- Mochol, M. *Interoperability issues, ontology matching and MOMA*. Retrieved May 21, 2012, from [http://page.mi.fu-berlin.de/mochol/papers/I\\_Semantics2008.pdf](http://page.mi.fu-berlin.de/mochol/papers/I_Semantics2008.pdf)
- Moratz, R., Renz, J., & Wolter, D. (2000). Qualitative spatial reasoning about line segments. Paper presented at the *14th European Conference on Artificial Intelligence*, Amsterdam. Retrieved from [http://www.informatik.uni-bremen.de/kogrob/papers/ecai2000\\_dipol.pdf](http://www.informatik.uni-bremen.de/kogrob/papers/ecai2000_dipol.pdf)
- Moreno, A., Vallas, A., Isern, D., Marin, L., & Borras, J. (2012). SigTur/E-destination: Ontology-based personalized recommendation of tourism and leisure activities., 1-19.

Retrieved from [http://ac.els-cdn.com/S0952197612000516/1-s2.0-S0952197612000516-main.pdf?\\_tid=de07ba8fcff698fe931a734e31f0a739&acdnat=1339434566\\_f7ac973e0e5f1a48dc7644861756221d](http://ac.els-cdn.com/S0952197612000516/1-s2.0-S0952197612000516-main.pdf?_tid=de07ba8fcff698fe931a734e31f0a739&acdnat=1339434566_f7ac973e0e5f1a48dc7644861756221d)

Motta, E., & d'Aquin, M. *Hands on session: Ontology engineering using next generation semantic web technologies*. Retrieved May 21, 2012, from <http://eurolan.info.uaic.ro/html/profs/materials/Mathieu.pdf>

Munn, K., & Smith, B. (2008). *Applied ontology*. Piscataway, NJ: Rutgers University.

*My first ontology*. (2012). Unpublished manuscript.

N.A.S.A. (2004). *NASA earth operations*. Retrieved August 7, 2012, from <http://neo.sci.gsfc.nasa.gov/Search.html>

N.A.S.A. (2012). *Semantic web for earth and environmental terminology (SWEET) ontologies*. Retrieved June 6, 2012, from <http://sweet.jpl.nasa.gov/>

Nam, K., & Condon, J. (2010). The DIE is cast: The continuing evolution of intercultural communication's favorite classroom exercise. *International Journal of Intercultural Relations*, 34(1), 81-87. doi: 10.1016/j.ijintrel.2009.09.001

Natural Language Processing. *Semantics exercises*. Retrieved May 21, 2012, from [http://www.cs.bham.ac.uk/~pxc/nlp/InteractiveNLP/NLP\\_mean1.html](http://www.cs.bham.ac.uk/~pxc/nlp/InteractiveNLP/NLP_mean1.html)

Nebert, D. (2009). Ontologies in spatial data infrastructures. Paper presented at the *Second Annual SOCoP Workshop*, Retrieved from [http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop\\_2009\\_11\\_12](http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop_2009_11_12)

NeOn Project. (2012). *Ontology design patterns*. Retrieved June 6, 2012, from [http://ontologydesignpatterns.org/wiki/Main\\_Page](http://ontologydesignpatterns.org/wiki/Main_Page)

- Nodenot, T. T. (2010). Software for studying and enhancing educational uses of geospatial semantics and data. *International Research in Geographical and Environmental Education*, 19(1), 57-61. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=30&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=49147638>
- Nogueras-Iso, J., Zarazaga-Soria, F. J. & Muro-Medrano, P. R. (2005). *Spatial data infrastructures and related concepts*. Retrieved May 21, 2012, from <http://www.springerlink.com/content/v47q1311kt700254/fulltext.pdf>
- Norton, B. (2011). *RDF schema*. Retrieved May 22, 2012, from [http://videlectures.net/sssc2011\\_norton\\_rdf/](http://videlectures.net/sssc2011_norton_rdf/)
- Noy, N., & McGuinness, D. (2001). *Ontology developmentt 101: A guide to creating your first ontology*. Retrieved from [http://protege.stanford.edu/publications/ontology\\_development/ontology101-noy-mcguinness.html](http://protege.stanford.edu/publications/ontology_development/ontology101-noy-mcguinness.html)
- NTNU. (2012). *What is semantics exercise*. Unpublished manuscript.
- Obrst, L. (2009). *Ontology for the intelligence community*. Retrieved June 6, 2012, from <http://c4i.gmu.edu/OIC09/workshop.php>
- oeGov. (2010). *Ontologies for e-government*. Retrieved June 6, 2012, from <http://oegov.org/>
- OGC. *GeoSparql*. Retrieved May 21, 2012, from <http://www.geosparql.org/>
- OGC. (2011). *OGC seeks comment on candidate GeoSPARQL standard*. Retrieved May 22, 2012, from <http://www.opengeospatial.org/standards/requests/80>
- Okitko, M. (2007). *Introduction to ontologies and semantic web*. Retrieved June 6, 2012, from <http://www.obitko.com/tutorials/ontologies-semantic-web/introduction.html>

Ontolog collaborative work environment. *Ontolog collaborative work environment*. Retrieved June 6, 2012, from <http://ontolog.cim3.net/>

Ontology Engineering Group (OEG). *GeoLinkedData*. Retrieved June 6, 2012, from <http://geo.linkeddata.es/web/guest>

Ontotext. (2011). *SPARQL 1.1 and OWLIM version 4*. Retrieved May 24, 2012, from <http://www.ontotext.com/owlim/sparql11>

Ontotext. (2012). *Slideshare: Ontotext*. Retrieved May 22, 2011, from <http://www.slideshare.net/ontotext>

Open Ontology Repository. *Spatial ontology community of practice*. Retrieved May 23, 2012, from <http://socop.oor.net/>

OpenCyc. (2010). *OpenCyc for the semantic web*. Retrieved June 6, 2012, from <http://sw.opencyc.org/>

Oracle. *Spatial developer's guide 11g release 1 (11.1)*. (). Retrieved from [http://docs.oracle.com/cd/B28359\\_01/appdev.111/b28400/sdo\\_intro.htm](http://docs.oracle.com/cd/B28359_01/appdev.111/b28400/sdo_intro.htm)

Oracle. (2012). *Oracle database semantic technologies*. Retrieved June 6, 2012, from <http://www.oracle.com/technetwork/database/options/semantic-tech/index.html>

Oren, E. (2009). *Querying RDF with SPARQL*. Retrieved May 29, 2012, from <http://webkr.cs.vu.nl/slides/sparql.pdf>

Oren, E. (2009). *RDF: Resource description Framework RDFS: RDF schema*. Retrieved May 29, 2012, from <http://webkr.cs.vu.nl/slides/rdfs.pdf>

Oren, E. (2009). *Transforming XML to RDF*. Retrieved May 29, 2012, from <http://webkr.cs.vu.nl/slides/xslt.pdf>

Oren, E., & Schlobach, S. (2009). Retrieved May 29, 2012, from

<http://webkr.cs.vu.nl/slides/Ontologies.pdf>

Oren, E., & Schlobach, S. (2009). Retrieved May 29, 2012, from

<http://webkr.cs.vu.nl/slides/intro.pdf>

Ouasti, M. (2011). *Ontologies in GIS*. Retrieved May 21, 2012, from

[http://www.youtube.com/watch?v=ehvy\\_dR5t8k](http://www.youtube.com/watch?v=ehvy_dR5t8k)

Painho, M., Curvelo, P., & Jovani, I. (2007). An ontological-based approach to geographic information science curricula design. *The european information society: Lecuture notes in geoinformation and cartography* (pp. 15-34) Springer Berlin Heidelberg. Retrieved from

[http://dx.doi.org/10.1007/978-3-540-72385-1\\_2](http://dx.doi.org/10.1007/978-3-540-72385-1_2)

Palmer, S. (2009). *The semantic web, an introduction*. Retrieved June 27, 2012, from

<http://infomesh.net/2001/swintro/>

Palmer, S. (2012). *RDFS*. Unpublished manuscript.

Parliament. *A high performance triple store reasoner*. Retrieved June 6, 2012, from

<http://parliament.semwebcentral.org/>

Passant, A. (2009). *Introduction to the semantic web*. Retrieved May 21, 2012, from

<http://www.slideshare.net/terraces/introduction-to-the-semantic-web-2410632>

Passant, A., & Breslin, J. (2010). *The social semantic web: ICWSM tutorial*. Retrieved May 21,

2012, from <http://www.slideshare.net/Cloud/the-social-semantic-web>

Paul, M., & Ghosh, S. K. (2008). A service-oriented approach for integrating heterogeneous spatial data sources realization of a virtual geo-data repository. *International Journal of Cooperative Information Systems*, 17(1), 111-153. Retrieved from

<http://search.ebscohost.com/login.aspx?direct=true&db=bth&AN=30075949&site=eds-live&scope=site>

Pease, A. (2011). *Formal ontology and the suggested upper merged ontology (SUMO)*.

Retrieved May 21, 2012, from

<http://video.search.yahoo.com/video/play?&c=1&p=ontology+tutorials&vid=b86c79ca975f7d358a01241db7f726c2&dt=1314674367&l=6360&turl=http%3A%2F%2Fts2.mm.bing.net%2Fvideos%2Fthumbnail.aspx%3Fq%3D4588490237804645%26id%3Deeee4e4fa4361ec889ae72197231f97e6%26bid%3DvLCOAqClausaRQ%26bn%3DLargeThumb%26url%3Dhttp%253a%252f%252fwww.youtube.com%252fwatch%253fv%253dEFQRvyyv7Fs&url=http%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DEFQRvyyv7Fs&tit=DMSIG+-+%26quot%3BFormal+Ontology+and+the+Suggested+Upper...&sigr=11a0u31d6&newfp=1>

Pehle, T., & Perry, M. (2011). *GeoSPARQL: A geographic query language for RDF*. Retrieved June 16, 2012, from

<https://opensource.ncsa.illinois.edu/confluence/display/SGST/Semantic+Geostreaming+Toolkit>

Peisheng Zhao. (2009). Semantic web-based geospatial knowledge transformation. *Computers & Geosciences*, 35(4), 798-808. Retrieved from

<http://www.sciencedirect.com/science/article/pii/S0098300408002409>

Peng, Z., Peng, Y., & Zhai, B. (2007). Using object deputy database to realize multi-representation geographic information system. Paper presented at the *15th Annual ACM International Symposium on Advances in Geographic Information Systems*, New York. (43) doi: 10.1145/1341012.1341067

Perry, M., Sheth, A., Arpinar, I. B., & Hakimpour, F. (2009). Geospatial and temporal semantic analytics. In H. A. Karimi (Ed.), *Handbook of research on geoinformatics* (pp. 161-170). Hershey, Pa.: Information Science Reference. Retrieved from

<http://knoesis.org/library/resource.php?id=00015>

Perry, M. (2011). OGC GeoSPARQL: Standardizing spatial query on the semantic web. Paper presented at the *4th Annual Spatial Ontology Community of Practice Workshop*, Retrieved from <http://ontolog.cim3.net/cgi-bin/wiki.pl?SocopWorkshop2011>

Perry, M., & Herring, J. (2011). *OGC GeoSPARQL- A geographic query language for RDF data*. ( No. OGC 11-052r3).Open Geospatial Consortium. Retrieved from [https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CGoQFjAB&url=https%3A%2F%2Fportal.opengeospatial.org%2Ffiles%2F%3Fartifact\\_id%3D44722&ei=oSPdT-raIabC6wHm2civCw&usq=AFQjCNH0KMc5-fUjy9BqVcc\\_4EUgaBQsJg](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CGoQFjAB&url=https%3A%2F%2Fportal.opengeospatial.org%2Ffiles%2F%3Fartifact_id%3D44722&ei=oSPdT-raIabC6wHm2civCw&usq=AFQjCNH0KMc5-fUjy9BqVcc_4EUgaBQsJg)

Peuquet, D., Smith, B., & Brogaard, B. (1998). *The ontology of fields*. (). Bar Harbor, Maine: Panel on Computational Implementations of Geographic Concepts. Retrieved from [http://www.ncgia.ucsb.edu/Publications/Varenius\\_Reports/Ontology\\_of\\_Fields.pdf](http://www.ncgia.ucsb.edu/Publications/Varenius_Reports/Ontology_of_Fields.pdf)

Peuquet, D., Smith, B., & Brogaard, B. (1998). *The ontology of fields*. (Talks and Discussions at the Specialist Meeting). Bay Harbor, Maine: Panel on Computational Implementations of Geographic Concepts. Retrieved from [http://www.ncgia.ucsb.edu/Publications/Varenius\\_Reports/Ontology\\_of\\_Fields.pdf](http://www.ncgia.ucsb.edu/Publications/Varenius_Reports/Ontology_of_Fields.pdf)

Pfoser, D. (2010). *Geospatial content creation*. Retrieved May 23, 2012, from <http://www.youtube.com/watch?v=pUGZdFEDGrS>

Podobnikar, T., & Ceh, M. (2012). *Universal ontology of geographic space: Semantic enrichment for spatial data*. Hershey, PA: Information Science Reference.

Pollock, J. T. (2009). *Semantic web for dummies*. Hoboken, NJ: Wiley Publishing. Retrieved from [http://dl.hackr.info/programming%20references/Web%20programing%20books/semantic\\_20web/semantic-web-for-dummies-computer-tech.9780470396797.47515.pdf](http://dl.hackr.info/programming%20references/Web%20programing%20books/semantic_20web/semantic-web-for-dummies-computer-tech.9780470396797.47515.pdf)

Poole, D., & Mackworth, A. (2010). *13 ontologies and knowledge-based systems*. Retrieved May 21, 2012, from [http://artint.info/html/ArtInt\\_309.html](http://artint.info/html/ArtInt_309.html)

Poole, D., & Mackworth, A. (2010). *13.3 ontologies and knowledge sharing*. Retrieved May 21, 2012, from [http://artint.info/html/ArtInt\\_316.html](http://artint.info/html/ArtInt_316.html)

Poole, D., & Mackworth, A. (2010). *13.3.1 description logic*. Retrieved May 12, 2012, from [http://artint.info/html/ArtInt\\_317.html](http://artint.info/html/ArtInt_317.html)

Poole, D., & Mackworth, A. (2010). *13.3.2 top-level ontologies*. Retrieved May 21, 2012, from [http://artint.info/html/ArtInt\\_318.html](http://artint.info/html/ArtInt_318.html)

Poole, D., & Mackworth, A. (2010). *Artificial intelligence: Foundation of computational agents*. Retrieved from <http://artint.info/html/ArtInt.html>

Prescient Software. (2010). *What is semantic?* Retrieved May 21, 2012, from <http://www.youtube.com/watch?v=tRdkHICHYUE>

Prieto-Blazquez, J., Garcia-Tora, I., Herrera-Joancomarti, J. & Guerrero-Roldan, A. *Virtual laboratory ontology for engineering education*. Retrieved June 1, 2012, from [http://openaccess.uoc.edu/webapps/o2/bitstream/10609/1384/1/Prieto\\_FIE08.pdf](http://openaccess.uoc.edu/webapps/o2/bitstream/10609/1384/1/Prieto_FIE08.pdf)

Princeton University. (2012). *WordNet—WordNet, A lexical database for english*. Retrieved June 6, 2012, from <http://wordnet.princeton.edu/>

Protege. (2012). *OWL ontologies*. Retrieved May 23, 2012, from [http://protegewiki.stanford.edu/wiki/Protege\\_Ontology\\_Library](http://protegewiki.stanford.edu/wiki/Protege_Ontology_Library)

Pulido, J. R. G., Ruiz, M. A. G., Herrera, R., Cabello, E., Legrand, S., & Elliman, D. (2006). Ontology languages for the semantic web: A never completely updated review. *Knowledge-Based Systems, 19*, 489-497. doi: 10.1016/j.knosys.2006.04.013

Pundt, H., & Bishr, Y. (2002). Domain ontologies for data sharing—an example from environmental monitoring using field GIS. *Computers and Geosciences, 28*, 95-102. doi: 10.1016/S0098-3004(01)00018-8



- Quintero, R., Torres, M., Moreno, M., & Guzman, G. (2009). Towards a semantic representation of raster spatial data. *LECTURE NOTES IN COMPUTER SCIENCE*, (5892), 63-82. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=edsbl&AN=RN264007213&site=eds-live&scope=site>
- Quintero, R., Guzmán, G., Menchaca-Mendez, R., Torres, M., & Moreno-Ibarra, M. (2012). An ontology-driven approach for the extraction and description of geographic objects contained in raster spatial data. *Expert Systems with Applications*, 39(10), 9008-9020. doi: 10.1016/j.eswa.2012.02.033
- Randell, D., Cui, Z., & Cohn, A. (1992). A spatial logic based on regions and connection. Paper presented at the *Principles of Knowledge Representation and Reasoning: Proceedings of the Third International Conference*, San Mateo, California. 165-176. Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.39.486>
- Raper, J. *The dimensions of GIScience*. Retrieved May 21, 2012, from [www.soi.city.ac.uk/~raper/research/GIScience2002-OHs-pub.ppt](http://www.soi.city.ac.uk/~raper/research/GIScience2002-OHs-pub.ppt)
- Web 3.0. Ray, K. (Director). (2010). [Video/DVD] New York: kateray.net. Retrieved from <http://vimeo.com/11529540>
- Raytheon BBN Technology. (2012). *SemWebCentral*. Retrieved June 6, 2012, from <http://www.semwebcentral.org/>
- Rensselaer Polytechnic Institute (RPI). *Tetherless world constellation*. Retrieved June 6, 2012, from <http://tw.rpi.edu/web/TWC>
- Roh, Y., Kim, J. H., Chung, Y. D., Son, J. H., & Kim, M. H. (2010). Hierarchically organized skew-tolerant histograms for geographic data objects. Paper presented at the *SIGMOD '10 Proceedings of the 2010 International Conference on Management of Data*, New York. 627-638. doi: 10.1145/1807167.1807236

- R-Shief. (2011). *Semantic content analysis of 800,000 #Jan25 tweets*. Retrieved May 30, 2012, from <http://vimeo.com/20174171>
- Santhiappan, S. (2007). *Introduction to ontology*. Retrieved May 21, 2012, from <http://www.slideshare.net/sudarsun/ontology>
- Sayed, E. (2002). *Spatial databases: Gis case studies*. (). Berkeley, California: University of California. Retrieved from <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CFQQFjAA&url=http%3A%2F%2Fieor.berkeley.edu%2F~goldberg%2Fcourses%2FF04%2F215%2F215-SpatialDB.ppt&ei=LITeT6W5M7KM6QGQ4KXCCw&usg=AFQjCNEr2-Ty4UuAiIeGsNCuZ7Wyd000JA>
- Schade, S., & Cox, S. (2010). Linked data in SDI or how GML is not about trees. Paper presented at the *13th AGILE International Conference on Geographic Information Science 2010*, Guimarães, Portugal. 1-10. Retrieved from [http://agile2010.dsi.uminho.pt/pen/ShortPapers\\_PDF/73\\_DOC.pdf](http://agile2010.dsi.uminho.pt/pen/ShortPapers_PDF/73_DOC.pdf)
- Schevers, H. (2006). *Ontology driven concept modeller for urban development*. Retrieved May 23, 2012, from <http://ausweb.scu.edu.au/aw06/papers/refereed/schevers/paper.html>
- Schlobach, S. (2009). Retrieved May 29, 2012, from <http://webkr.cs.vu.nl/slides/owl.pdf>
- Schuurman, N., & Leszcynski, A. (2006). Ontology-based metadata. *Transactions in GIS*, 11, 709-726. doi: 10.1111/j.1467-9671.2006.01024.x
- Schuurman, N. Social dimensions of object definition in GIS. Retrieved from <http://www.sfu.ca/gis/schuurman/cv/PDF/GIS3.pdf>
- Schuurman, N. (2006). Formalization matters: Critical GIS and ontology research. *Annals of the Association of American Geographers*, 96(4), 726-739. doi: 10.1111/j.1467-8306.2006.00513.x

Schwering, A. (2008). Approaches to semantic similarity measurement for geo-spatial data: A survey. *Transactions in GIS*, 12(1), 5-29. doi: 10.1111/j.1467-9671.2008.01084.x

Semantic Technology for Intelligence, Defense, and Security (STIDS). (2012). *Semantic technology for intelligence, defense, and security (STIDS)*. Retrieved June 6, 2012, from <http://stids.c4i.gmu.edu/>

Semantic Technology Institute. (2005). *Semantic web- exercises 1*. Retrieved May 21, 2012, from [http://www.sti-innsbruck.at/fileadmin/documents/teaching\\_archive/semweb05/exercises1.pdf](http://www.sti-innsbruck.at/fileadmin/documents/teaching_archive/semweb05/exercises1.pdf)

Semantic Web Conference. (2012). *The 11th international semantic web conference*. Retrieved June 6, 2012, from <http://iswc2012.semanticweb.org/>

SemanticWeb.org. (2012). *Semantic web*. Retrieved June 6, 2012, from [http://semanticweb.org/wiki/Main\\_Page](http://semanticweb.org/wiki/Main_Page)

Sen, S. S. (2008). Framework for probabilistic geospatial ontologies. *International Journal of Geographical Information Science : IJGIS*, 22(7), 825-846. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=5&hid=4&sid=1e772dae-f794-4ed5-ada2-97215ccd39c3%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=31900100>

Sern, S. (2008). User of affordances in geospatial ontologies. Paper presented at the 2006 *International Conference on Towards Affordance-Based Robot Control*, Springer-Verlag. , 4760 122-139. Retrieved from [http://drops.dagstuhl.de/opus/volltexte/2006/722/pdf/06231\\_abstracts\\_collection.722.pdf](http://drops.dagstuhl.de/opus/volltexte/2006/722/pdf/06231_abstracts_collection.722.pdf)

Sheth, A. *RDF and XML tutorial*. Retrieved May 21, 2012, from [lisd.cs.uga.edu/SemWebCourse/RDF.ppt](http://lisd.cs.uga.edu/SemWebCourse/RDF.ppt)

- Sheth, A. (2010). Spatial semantics for better interoperability and analysis: Challenges and experiences in building semantically rich applications in web 3.0. Paper presented at the *3rd Annual Spatial Ontology Community of Practice Workshop*, Reston, Virginia. Retrieved from [http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop\\_Agenda\\_2010\\_12\\_03#nid2K1M](http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/Workshop_Agenda_2010_12_03#nid2K1M)
- Sheth, A. (2012). *Semantic web: Intro & overview* Retrieved May 21, 2012, from <http://www.slideshare.net/apsheth/semantic-web-introduction-overview>
- Simperl, E. (2011). *Ontology design and reasoning*. Retrieved May 22, 2012, from [http://videlectures.net/sssc2011\\_simperl\\_ontology/](http://videlectures.net/sssc2011_simperl_ontology/)
- Sinha, G., & Mark, D. (2010). Cognition-based extraction and modeling of topographic eminences. *Cartographica*, 45(2), 105-112. doi: 10.3138/carto.45.2.105
- Sinha, A. K., Malik, Z., Rezgui, A., Barnes, C. G., Lin, K., Heiken, G., . . . Seber, D. (2010). Geoinformatics: Transforming data to knowledge for geosciences. *GSA Today*, 20(12), 4-10. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=58622755&site=eds-live&scope=site>
- Smith, B. (1995). On drawing lines on a map. Paper presented at the *Proceedings of COSIT*, 475-484. Retrieved from <http://cogprints.org/308/1/drawing.html>
- Smith, B. (2001). Fiat objects. *Topoi*, 20, 131-148. Retrieved from <http://ontology.buffalo.edu/smith/articles/fiat1994.pdf>
- Smith, B. (2011). *Lecture 6 ontology and the semantic web*. Retrieved May 21, 2012, from <http://www.slideshare.net/BarrySmith3/the-semantic-web-9297259>
- Smith, B., & Mark, D. (1998). Ontology and geographic kinds. Paper presented at the *International Symposium on Spatial Data Handling*, Vancouver, Canada. Retrieved from <http://cogprints.org/300/1/ontology.html>

Smith, B., & Mark, D. (2002). Geographic categories: An ontological investigation., 1-24.

Retrieved from <http://ontology.buffalo.edu/smith/articles/SmithMarkIJGIS.pdf>

Smith, B., & Mark, D. (2003). Do mountains exist? towards an ontology of landforms.

*Planning and Design*, 30(3), 411-427. Retrieved from

<http://ontology.buffalo.edu/smith/articles/Mountains.pdf>

Smith, M. (2003). *Web ontology issue status*. Retrieved May 21, 2012, from

<http://www.w3.org/2001/sw/WebOnt/webont-issues.html>

SOCoP. (2012). *Open ontology repository initiative*. Retrieved June 6, 2012, from

<http://ontolog.cim3.net/cgi-bin/wiki.pl?OpenOntologyRepository>

SOCoP. (2012). *Spatial ontology community of practice*. Retrieved June 6, 2012, from

<http://www.socop.org/>

Somer, H. *Semantics: Going beyond syntax*. Retrieved May 21, 2012, from

[personalpages.manchester.ac.uk/staff/harold.somers/NLP/Semantics.ppt](http://personalpages.manchester.ac.uk/staff/harold.somers/NLP/Semantics.ppt)

Sorokine, A., Bittner, T., & Renschler, C. Ontological investigation of ecosystem hierarchies and formal theory for multiscale ecosystem classifications., 1-19. Retrieved from

<http://www.acsu.buffalo.edu/~bittner3/sbc-20040702.pdf>

Soto, A., Hernandez, J. A., Arias, M. A. & Diez, G. (2012). *Using ontologies to generate*

*learning objects automatically*. Retrieved May 21, 2012, from

[http://unacar.academia.edu/AndresSoto/Papers/1051096/Using\\_Ontologies\\_to\\_generate\\_Learning\\_Objects\\_automatically](http://unacar.academia.edu/AndresSoto/Papers/1051096/Using_Ontologies_to_generate_Learning_Objects_automatically)

Sowa, J. F. (2000). *Knowledge representation : Logical, philosophical, and computational foundations / John F. Sowa* Pacific Grove : Brooks/Cole, c2000. Retrieved from

<http://search.ebscohost.com/login.aspx?direct=true&db=cab00024a&AN=vmc.b1679117&site=eds-live&scope=site>

Spaccapietra, S. (2005). *Journal on data semantics III* Retrieved from

<http://www.springerlink.com/content/ba58g13whm8ypkv4/>

Spaccapietra, S. (2005). *Journal on data semantics III*. Retrieved from

<http://www.springerlink.com/content/77brg8wv79te725r/?MUD=MP>

Spatial Ontology Community of Practice (SOCoP). (2011). *SOCop/ geospatial ontologies*.

Retrieved May 23, 2012, from <http://ontolog.cim3.net/cgi->

[bin/wiki.pl?SOCoP/GeospatialOntologies](http://ontolog.cim3.net/cgi-bin/wiki.pl?SOCoP/GeospatialOntologies)

Spry inc. (2011). *What is an ontology?* Retrieved May 21, 2012, from

<http://www.youtube.com/watch?v=jfUPLuPL3Ho>

Staab, S., & Studer, R. (2004). *The handbook on ontologies*. Berlin: Springer-Verlag.

Retrieved from

[http://books.google.com/books/about/Handbook\\_on\\_Ontologies.html?id=W6ZNCaolVbwC](http://books.google.com/books/about/Handbook_on_Ontologies.html?id=W6ZNCaolVbwC)

Stadler, C. (2011). *Linked open data initiative*. Retrieved June 6, 2012, from

<http://linkedgeodata.org/About>

Stanford Univeristy. (2012). *Welcome to protege*. Retrieved June 6, 2012, from

<http://protege.stanford.edu/>

Stelovsky, J.3.2 *semantics*. Retrieved May 21, 2012, from

[www2.hawaii.edu/~janst/313/slides/3.2%20Semantics.ppt](http://www2.hawaii.edu/~janst/313/slides/3.2%20Semantics.ppt)

Stock, K. (2012). *The representation of geographic object semantics using inclusion rules*.

Retrieved May 30, 2012, from

[http://www.nottingham.ac.uk/~lqzwww/contacts/staffPages/kristinstock/GISLIS98\\_for\\_supply.pdf](http://www.nottingham.ac.uk/~lqzwww/contacts/staffPages/kristinstock/GISLIS98_for_supply.pdf)

Stock, K., Stojanovic, T., Reitsma, F., Ou, Y., Bishr, M., Ortmann, J. & Robertson, A. (2012).

*To ontologise or not to ontologise: An information model for a geospatial knowledge*

*infrastructure*. Retrieved May 30, 2012, from

<http://www.nottingham.ac.uk/~lgzwww/contacts/staffPages/kristinstock/documents/ToOntologiseOrNotToOntologisev0.5.pdf>

Stoilos, G. (2011). *Repairing ontologies for incomplete reasoners*. Retrieved May 23, 2012, from [http://videlectures.net/iswc2011\\_stoilos\\_reasoners/](http://videlectures.net/iswc2011_stoilos_reasoners/)

Stromback, L. (2011). *Lab exercises for theme 3-ontology tools*. Retrieved May 21, 2012, from <https://www.ida.liu.se/~TDDD43/themes/theme3exercise.pdf>

Sun, S., Liu, D., Li Guo-Qing & Yu, W. *The semantic retrieval of spatial data service based on ontology in SIG*. Retrieved May 21, 2012, from <http://www.isprs.org/proceedings/XXXVIII/4-W25/paper/62-67Sheng-TaoSun.pdf>

Tang, F., & Tang, R. (2011). Detecting and repairing broken mappings for ontology based data access system. *Energy Procedia*, 13(2011), 3849-3854. doi: 10.1016/j.egypro.2011.11.552

Tecuci, G. (2004). *Knowledge acquisition and problem solving*. Retrieved May 29, 2012, from <http://lac.gmu.edu/cs785-fa04/cs785-tecuci-g.htm>

Terra Cognita. (2011). *Terra cognita 2011 workshop*. Retrieved June 6, 2012, from <http://asio.bbn.com/terracognita2011/>

The National Center for Biomedical Ontology. (2012). *BioPortal*. Retrieved May 23, 2012, from <http://bioportal.bioontology.org/>

The University of Arizona. (2011). *OWL ontology splitter*. Retrieved May 23, 2012, from <http://sswap.info/splitter.jsp>

The University of Manchester. (2005). *An introduction to RDF(S) and a quick tour of OWL*. Retrieved May 29, 2012, from <http://www.co-ode.org/resources/tutorials/intro/slides/OWLFoundationsSlides.pdf>

The University of Manchester. (2005). *A practical introduction to ontologies and OWL*.

Retrieved May 29, 2012, from <http://www.co-ode.org/resources/tutorials/intro/exercisesHandout-v04.pdf>

The University of Sheffield. (1995-2010). *Module 9: Ontologies and semantic annotation*.

Retrieved May 21, 2012, from <http://gate.ac.uk/sale/talks/gate-course-aug10/track-3/module-9-ontologies/module-9-ontologies.pdf>

Theobald, D. (2001). Topology revisited: Representing spatial relations. *Geographical*

*Information Science*, 15(8), 689-705. Retrieved from

[http://www.colorado.edu/geography/class\\_homepages/geog\\_4103\\_s07/docs/Theobald01.pdf](http://www.colorado.edu/geography/class_homepages/geog_4103_s07/docs/Theobald01.pdf)

Thomasson, A. L. (2001). Geographic objects and the science of geography. *Topoi*, 20(2),

145-159. doi: 10.1023/A:1017900607919

Tolba, A., Eladawi, N., & Elmogy, M. An enhanced indexing and ranking technique on the

semantic web. *International Journal of Computer Science*, 8(5), 118-125. Retrieved from

<http://arxiv.org/ftp/arxiv/papers/1111/1111.6713.pdf>

Tomai, E., & Kavouras, M. (2004). From "onto-GeoNoesis" to "onto-genesis"; the design of geographic ontologies. *GeoInformatica*, 8(3), 285-302. doi:

10.1023/B:GEIN.0000034822.47211.4a

Tomai, E., & Spanaki, M. (2005). From ontology design to ontology implementation: A web

tool for building geographic ontologies. Paper presented at the *8th AGILE Conference on*

*GIScience*, Estoril, Portugal. Retrieved from

[http://itcnt05.itc.nl/agile\\_old/Conference/estoril/papers/72\\_Eleni%20Tomai.pdf](http://itcnt05.itc.nl/agile_old/Conference/estoril/papers/72_Eleni%20Tomai.pdf)

Topalis, P. (2008). *Ontology primer*. Retrieved May 21, 2012, from

<http://www.slideshare.net/VectorBase/ontology-tutorial-presentation>



- TopQuadrant. (2012). *TopBraid composer*. Retrieved June 6, 2012, from [http://www.topquadrant.com/products/TB\\_Composer.html](http://www.topquadrant.com/products/TB_Composer.html)
- Torres, M., Levachkine, S., Quintero, R., Guzman, G., & Moreno, M. (2008). Geospatial information integration based on the conceptualization of geographic domain. Paper presented at the *GIS '08 Proceedings of the 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, (73) doi: 10.1145/1463434.1463518
- Torres, M. M. (2011). GEONTO-MET: An approach to conceptualizing the geographic domain. *International Journal of Geographical Information Science : IJGIS*, 25(10), 1633-1657. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/13658816.2010.539183>
- Tran, T., Herzig, D. M., & Ladwig, G. (2011). SemSearchPro – using semantics throughout the search process. *Web Semantics: Science, Services and Agents on the World Wide Web*, 9, 349-364. doi: 10.1016/j.websem.2011.08.004
- Tschirner, S., & Scherp, A. (2011). Semantic access to INSPIRE: How to publish and query advanced GML data. Paper presented at the *Terra Cognita Workshop*, Bohn, Germany. Retrieved from [http://asio.bbn.com/terracognita2011/presentations/Semantic\\_Access\\_To\\_Inspire.pdf](http://asio.bbn.com/terracognita2011/presentations/Semantic_Access_To_Inspire.pdf)
- Turton, I., Jaiswal, A. & Gahegan, M. (2007). *Geographic information retrieval from disparate data sources*. Retrieved May 23, 2012, from <http://www.slideshare.net/ianturton/geographic-information-retrieval-from-disparate-data-sources>
- Tversky, B., Morrison, J. B., Franklin, N., & Bryant, D. J. (1999). Three spaces of spatial cognition. *Professional Geographer*, 51, 516-524. Retrieved from <http://psych.stanford.edu/~bt/space/papers/professionalgeographerpaper.pdf>

U.S. Board on Geographic Names. (2010). *Geographic names information system (GNIS)*. ().

Retrieved from

[http://mcmcweb.er.usgs.gov/sdts/SDTS\\_standard\\_nov97/p2anxa.html#342523](http://mcmcweb.er.usgs.gov/sdts/SDTS_standard_nov97/p2anxa.html#342523). (U.S.

Geologic Survey)

U.S. Federal Government. (2012). *Data.gov/semantic*. Retrieved June 6, 2012, from

<http://www.data.gov/communities/node/116/blogs>

U.S. Geologic Survey. Digital line graph standards. Retrieved from

<http://nationalmap.gov/standards/dlgstds.html>

Uitermark, H. T., Peter J.M., v. O., Nicolaas, J. I. M., & Martien, M. (2005). Ontology-based integration of topographic data sets. *International Journal of Applied Earth Observations and Geoinformation*, 7, 97-106. doi: 10.1016/j.jag.2005.03.002

University of Freiburg. (2012). *RDF*. Unpublished manuscript.

University of Manchester. (2005). *Hands on: Protege-OWL tutorial*. Retrieved May 29, 2012,

from <http://www.co-ode.org/resources/tutorials/intro/>

University of Muenster. (2012). *Muenster semantic interoperability lab*. Retrieved June 6,

2012, from <http://musil.uni-muenster.de/>

University of Oslo. (2010). *Exercises INF3580 spring 2010 week 1*. Retrieved May 21, 2012,

from

<http://www.uio.no/studier/emner/matnat/ifi/INF3580/v10/gruppeoppgaver/01exercises.html>

University of Victoria. *BioPortal ontology visualization*. Retrieved June 11, 2012, from

<http://keg.cs.uvic.ca/ncbo/flexviz/FlexoViz.html#>

Usery, E. L., & Varanka, D. (2011). USGS needs and advancements in semantics of geospatial data and CyberGIS. Paper presented at the *SOCOP Workshop*, Retrieved from <http://ontolog.cim3.net/cgi-bin/wiki.pl?SocopWorkshop2011>

Valle, E. D. (2010). *Supporting environmental information systems and services realization with the geo-spatial and streaming dimensions of the semantic web*. Retrieved May 22, 2012, from [http://videlectures.net/envip2010\\_valle\\_seis/](http://videlectures.net/envip2010_valle_seis/)

Valle, E. D., & Carenini, A. (2010). Supporting environmental information systems and services realization with the geo-spatial and streaming dimensions of the semantic web. Paper presented at the *Central Europe Workshop Proceedings: Environmental Information Systems and Services - Infrastructures and Platforms*, Bonn, Germany. , 679(9) Retrieved from <http://ceur-ws.org/Vol-679/paper9.pdf>

Valle, E. D., Dell'Aglio, D., & Celino, I. (2010). The experience of realizing a semantic web urban computing application. *Transactions in GIS*, 14(2), 163-181. doi: 10.1111/j.1467-9671.2010.01189.x

van Harmelen, F. (2007). *OWL*. Retrieved May 22, 2012, from [http://videlectures.net/koml04\\_harmelen\\_o/](http://videlectures.net/koml04_harmelen_o/)

Van Nguyen, T., Lim, W., Nguyen, H., Choi, D., & Lee, C. (2010). Context ontology implementation for smart home. Paper presented at the *The 2nd International Conference on Ubiquitous Information Technologies & Applications*, Java Island, Indonesia. doi: 2010arXiv1007.1273V

Varanka, D. E. (2009). Landscape features, technology codes, and semantics in U.S. national topographic mapping databases. Paper presented at the *The International Conference on Advanced Geographic Information Systems and Web Services*, Cancun, Mexico.

- Varanka, D. E. (2011). Ontology patterns for complex topographic feature types. *Cartography and Geographic Information Science*, 38(2), 126-136. Retrieved from <http://www.isprs.org/proceedings/XXXVIII/part4/files/Varanka.pdf>
- Varanka, D. E., Carter, J. J., Shoberg, T., & Usery, E. L. (2011). Topographic mapping data semantics through data conversion and enhancement. *Geospatial semantics and the semantic web—Foundations, algorithms, and applications* (pp. 145-162) Springer. Retrieved from <http://www.springerlink.com/content/q103571467513101/>
- Varanka, D. (2008). National topographic modeling, ontology-driven geographic queries in the context of the U.S. geological Survey's the national map. *U.S. Geospatial Survey*, Retrieved from <http://cegis.usgs.gov/pdf/Varanka2008-ISGA.pdf>
- Varanka, D. (2009). A topographical feature taxonomy for a U.S. national topographic mapping ontology. Paper presented at the ICA '09, Retrieved from <http://cegis.usgs.gov/pdf/ICA09paper-Varanka-TopoTaxonomy.pdf>
- Varanka, D. (2012). *Introduction to geospatial semantics and technology workshop handbook*. (Open-File Report No. 2012-1109). Reston, Virginia: U.S. Geological Survey. Retrieved from <http://pubs.usgs.gov/of/2012/1109/of2012-1109.pdf>
- Varanka, D., & Jerris, T. J. (2010). Complex topographic feature ontology patterns. *U.S. Geospatial Survey*, Retrieved from <http://cegis.usgs.gov/pdf/Varanka-Jerris-AutoCarto2010.pdf>
- Varzi, A. C. (2001). Philosophical issues in Geography—An introduction. *Topoi*, 20, 119-130. Retrieved from [http://www.columbia.edu/~av72/papers/Topoi\\_2001.pdf](http://www.columbia.edu/~av72/papers/Topoi_2001.pdf)
- Včkovski, A., Brassel, K. E., Schek, H., Rodríguez, M. A., Egenhofer, M. J., & Rugg, R. D. (1999). Assessing semantic similarities among geospatial feature class definitions. (pp. 189-212) Retrieved from

<http://search.ebscohost.com/login.aspx?direct=true&db=eda&AN=32889111&site=eds-live&scope=site>

Viana, W., Filho, J. B., Gensel, J., Villanova-Oliver, M., & Martin, H. (2008). PhotoMap: From location and time to context-aware photo annotations. *Journal of Location Based Services*, 2(3), 211-235. doi: 10.1080/17489720802487956

Vizenor, L. T. (2011). How semantic technology can improve the NextGen air transportation system information sharing environment. Paper presented at the *4th Annual Spatial Ontology Community of Practice (SOCoP) Workshop: Geo-Spatial Ontologies and Semantics- Current and Future Practices*, Reston, Virginia. Retrieved from <http://ontolog.cim3.net/cgi-bin/wiki.pl?SocopWorkshop2011>

Voudouris, V. (2008). *Geospatial modelling of indeterminate phenomena: The object-field model with uncertainty and semantics*. (Philosophy (Ph.D), City University). , 1-307. Retrieved from [http://vega.soi.city.ac.uk/~fd776/phd/PhD\\_VoudourisV.pdf](http://vega.soi.city.ac.uk/~fd776/phd/PhD_VoudourisV.pdf)

Voudouris, V. (2010). Towards a unifying formalization of geographic representation: The object-field model with uncertainty and semantics. *International Journal of Geographical Information Science*, 24(12), 1811-1828. Retrieved from <http://web.ebscohost.com/ehost/detail?sid=84e823e7-8063-4b8c-9dc4-de9f3145a6cb%40sessionmgr12&vid=1&hid=7&bdata=JnNpdGU9ZWVvc3QtbGl2ZSszY29wZT1zaXRl#db=a9h&AN=55474466>

w3c. (1999). *Resource description framework (RDF) model and syntax specification*. (). Retrieved from <http://www.w3.org/TR/PR-rdf-syntax/>

W3C. (2003). *W3C semantic web interest group*. Retrieved June 6, 2012, from <http://www.w3.org/2003/01/geo/>

W3C. (2004). *RDF primer*. ().W3C. Retrieved from <http://www.w3.org/TR/rdf-primer/>

- W3C. (2008). *SPARQL query language for RDF*. Retrieved May 21, 2012, from <http://www.w3.org/TR/2008/REC-rdf-sparql-query-20080115/>
- W3C. (2011). *GeoSPARQL - A geographic query language for RDF data*. Retrieved June 6, 2012, from <http://www.w3.org/2011/02/GeoSPARQL.pdf>
- W3C. (2011). *Turtle—Terse RDF triple language*. Retrieved June 6, 2012, from <http://www.w3.org/TR/2011/WD-turtle-20110809/>
- W3C. (2012). *Ontology repositories*. Retrieved May 23, 2012, from [http://www.w3.org/wiki/Ontology\\_repositories](http://www.w3.org/wiki/Ontology_repositories)
- W3C. (2012). *Semantic web development tools*. Retrieved June 6, 2012, from <http://www.w3.org/2001/sw/wiki/Tools>
- W3C. (2012). *Semantic web. world wide web consortium (W3C)*. Retrieved June 6, 2012, from <http://www.w3.org/standards/semanticweb>
- Wang, X. X. (2010). An ontology-based framework for geospatial clustering. *International Journal of Geographical Information Science : IJGIS*, 24(11), 1601-1630. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=8&hid=4&sid=1e772dae-f794-4ed5-ada2-97215ccd39c3%40sessionmgr4&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=55053564>
- Weaver, C. (2010). *GeoVISTA- software and tools demo*. Retrieved May 21, 2012, from [http://www.youtube.com/watch?v=3O6yXrGVAXw&feature=results\\_main&playnext=1&list=PLC8DC0DA5F32D8331](http://www.youtube.com/watch?v=3O6yXrGVAXw&feature=results_main&playnext=1&list=PLC8DC0DA5F32D8331)
- Wei, M. (2009). Enabling semantic power of geographic data. *U.S. Geospatial Survey*, Retrieved from <http://cegis.usgs.gov/pdf/Wei2009EnablingSemanticPower.pdf>

Welty, C., & Guarino, N. (2001). Supporting ontological analysis of taxonomic relations. *Data and Knowledge Engineering*, 39, 51-74. Retrieved from

<http://www.cs.toronto.edu/~jm/2507S/Readings/Welty.pdf>

White, G. (1997). *Relationships among spatial objects*. Retrieved May 21, 2012, from

<http://www.geog.ubc.ca/courses/klink/gis.notes/ncgia/u12.html#SEC12.1.1>

Wiegand, N., Berg-Cross, G., & Varanka, D. E. (2011). First ACM SIGSPATIAL international workshop on spatial semantics and ontologies. Paper presented at the *SIGSPATIAL International Conference on Advances in Geographic Information System*, Chicago, Ill.

Retrieved from

<http://dl.acm.org/citation.cfm?id=2068976&picked=prox&CFID=86532116&CFTOKEN=21918597>

Wiegand, N. (2010). *SOCoP's NSF INTEROP project: Semantic interoperability for geospatial data*. Retrieved May 23, 2012, from

[http://ontolog.cim3.net/file/work/SOCoP/Workshops/SOCoP-workshop\\_20101203/](http://ontolog.cim3.net/file/work/SOCoP/Workshops/SOCoP-workshop_20101203/)

Wiegand, N. (2010). Ontologies and database management system technology for the national map. *Cartographica*, 45(2), 121-126. doi: 10.3138/carto.45.2.121

Wilton-Jones, M. T. (2012). *Semantics*. Retrieved May 21, 2012, from

<http://www.howtcreate.co.uk/tutorials/html/semantics>

Witbrock, M., Fortuna, B. & Grobelnik, M. (2008). *Free semantic content: Using OpenCyc in semantic web applications*. Retrieved June 9, 2012, from

[http://videlectures.net/iswc08\\_witbrock\\_fsc/](http://videlectures.net/iswc08_witbrock_fsc/)

Wolfram, S. (2010). *Stephan wolfram: Computing a theory of everything*. Retrieved June 17, 2012, from <http://www.youtube.com/watch?v=60P7717-XOQ>

Wolfram, S. (2012). *Wolfram alpha*. Retrieved June 17, 2012, from

<http://www.wolframalpha.com>

*Working with ontologies (2)*. (2012). Unpublished manuscript.

World Wide Web Consortium (W3C). (2012). *Best practice recipes for publishing RDF vocabularies*. Retrieved June 6, 2012, from <http://www.w3.org/TR/swbp-vocab-pub/>

Yan, J., & Bracewell, D. B. (2008). The creation of a chinese ontology based on HowNet. *Engineering Letters*, 16(1), 166-171. Retrieved from <http://web.ebscohost.com/ehost/detail?sid=18439ab4-7527-473c-9c21-f63d00435e6c%40sessionmgr15&vid=1&hid=7&bdata=JnNpdGU9ZWwhvc3QtbGl2ZSszY29wZT1zaXRl#db=a9h&AN=31904020>

Yandong, W., Jianya, G. & Xiaohuang, W. (2007). *Geospatial semantic interoperability based on ontology*. Retrieved May 30, 2012, from <http://www.springerlink.com/content/g633213672h55r60/fulltext.pdf>

Yuan, M. (2007). *Temporal GIS for meteorological applications*. (). The University of Oklahoma: College of Atmospheric and Geographic Sciences. Retrieved from [http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=17&ved=0CF8QFjA GOAo&url=http%3A%2F%2Fduke.edu%2Fpickup%2FYuan\\_temporal\\_GIS.ppt&ei=eD3dT63WAq2A6QH9zuWvCw&usq=AFOjCNGVEvnMf2I2ItQGIS1RC8i0VJhySQ](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=17&ved=0CF8QFjA GOAo&url=http%3A%2F%2Fduke.edu%2Fpickup%2FYuan_temporal_GIS.ppt&ei=eD3dT63WAq2A6QH9zuWvCw&usq=AFOjCNGVEvnMf2I2ItQGIS1RC8i0VJhySQ)

Yue, P. (2011). Integrating semantic web technologies and geospatial catalog services for geospatial information discovery and processing in cyberinfrastructure. *GeoInformatica*, 15(2), 273. Retrieved from <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CFMQFjA A&url=http%3A%2F%2Fwww.laits.gmu.edu%2Fgeo%2Fnga%2Fsemcatalogue.pdf&ei=W3fiT46LJOiz0QHy2IT9Aw&usq=AFOjCNF7bfEu6LUT3cMOnr45lbsFb04Oqw>

Yuhana, U. L. (2007). *Ontology building*. Retrieved May 24, 2012, from <http://yuhanaresearch.files.wordpress.com/2007/04/ontology-building.pdf>



- Zapata, A. (2008). *Unit 1- semantic relationships: Exercises*. Retrieved May 21, 2012, from [http://webdelprofesor.ula.ve/humanidades/azapata/materias/english\\_4/unit\\_1\\_semantic\\_relationships\\_exercises.pdf](http://webdelprofesor.ula.ve/humanidades/azapata/materias/english_4/unit_1_semantic_relationships_exercises.pdf)
- Zhang, C. (2010). The framework of a geospatial semantic web-based spatial decision support system for digital earth. *International Journal of Digital Earth*, 3(2), 111. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=39&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=50380520>
- Zhang, C. C. (2010). Automatic search of geospatial features for disaster and emergency management. *ITC Journal*, 12(6), 409-418. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0303243410000590>
- Zhang, C. C. (2010). Towards logic-based geospatial feature discovery and integration using web feature service and geospatial semantic web. *International Journal of Geographical Information Science : IJGIS*, 24(6), 903-923. Retrieved from <http://ehis.ebscohost.com/eds/detail?vid=8&hid=22&sid=522b42a8-0766-439a-b557-de05feff5b45%40sessionmgr11&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=a9h&AN=49261549>
- Zhang, C. C., Zhao, T., & Li, W. (2010). The framework of a geospatial semantic web-based spatial decision support system for digital earth. *International Journal of Digital Earth*, 3(2), 111-134. doi: 10.1080/17538940903373803
- Zheng, B., Huang, L., & Lu, X. (2009). Ontology for cell-based geographic information. *Proceedings of SPIE*, (1), 749222. Retrieved from <http://search.ebscohost.com/login.aspx?direct=true&db=eda&AN=67386554&site=eds-live&scope=site>

Zhifeng, X., Lei, H., & Xiaofang, Z. (2009). Spatial information semantic query based on SPARQL. Paper presented at the *International Symposium on Spatial Analysis*, Wuhan. , 7492 1-10. doi: 10.1117/12.838556

Zhou, N. (2001). Ontological and semantic technologies for geospatial portals. *Geospatial web services: Advances in information interoperability* (pp. 227-234) IGI Global.

Zhou, N. (2009). *Using semantic and ontological technologies to enhance geospatial analysis: A demo of simulated flooding analysis*. Retrieved June 14, 2012, from <http://geosemantics.umd.edu/socopdemo/>