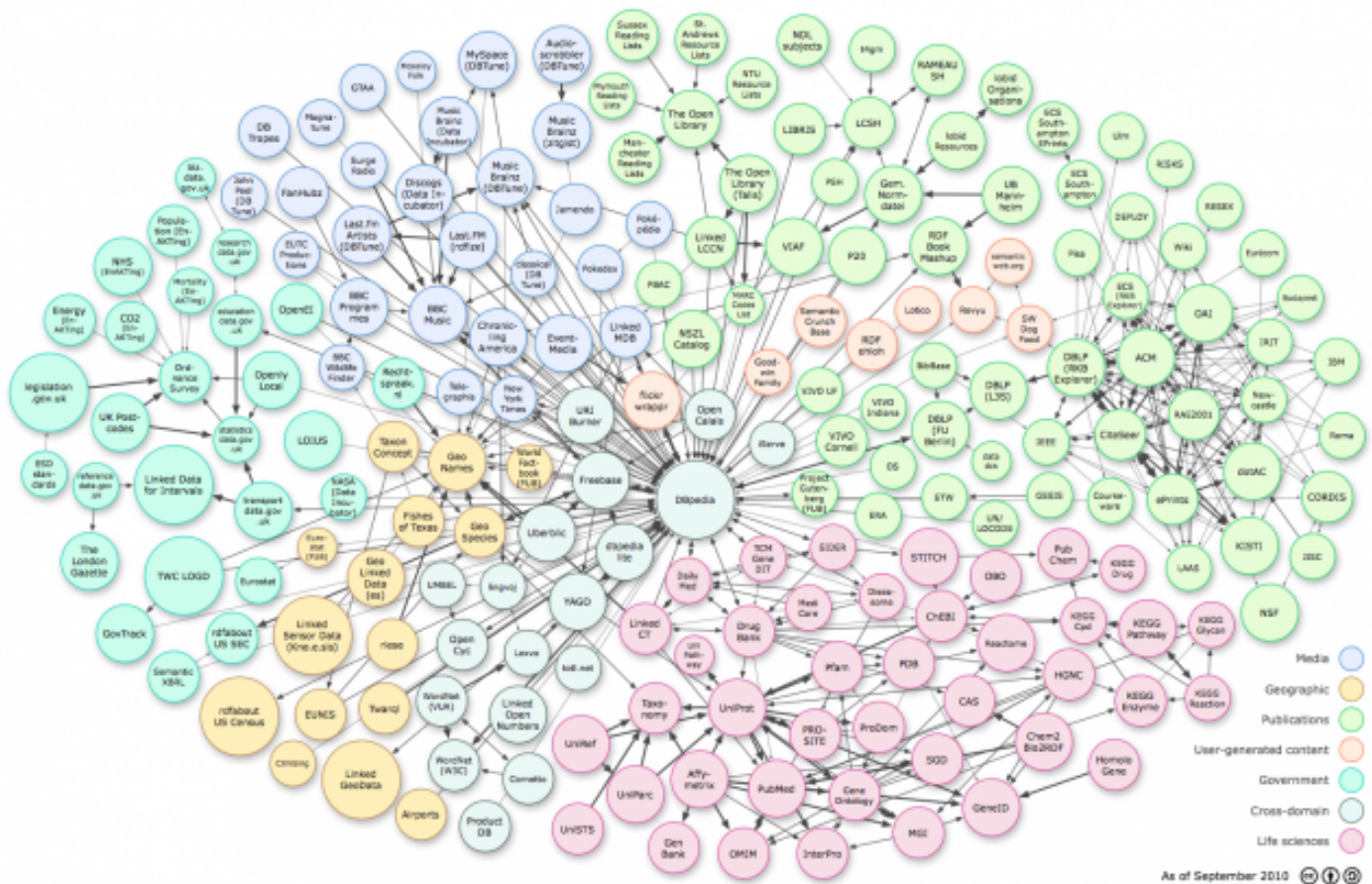


New Semantic Computing course at Concordia University

- [Semantic Computing](#)
- [Teaching](#)

Note: Please visit the [Semantic Computing Course page](#) for up-to-date information on this course.

In the next Winter Term (2010/11) I will offer, for the first time, a graduate-level research course on Semantic Computing ([SOEN 691B](#)) at the Department of Computer Science and Software Engineering. This course will provide an introduction to selected topics from Semantic Computing.



Open Linked Data Cloud

A (tentative) list of topics to be covered is:

Introduction to Semantic Computing

Introduction to Semantic Computing Paradigms and Applications; Processes, Tools, and Standards for Deriving Intelligence from (User-Generated) Content

Text Mining Systems

Foundations of Language Technology and Language Engineering; Text Mining Systems; Industry Standards; Design and Deployment of Text Mining Solutions; Information Extraction; Case Study: The General Architecture for Text Engineering (GATE)

Tagging and Tag Analysis

Social Tagging vs. Machine-Generated Tags; Folksonomies; Dynamic Navigation and Tag Clouds

Analyzing the Blogosphere

Blog Tracking; Opinion Mining; Standards: RSS, ATOM; Services: Technorati, Bloglines

Linked Data

RDF; Triplestores; SPARQL; Microformats; GRDDL; Linked Open Data; Case Studies: DBpedia, Freebase, FOAF, GeoNames

Information Repositories and Information Retrieval

Digital Object Management; Semantic Digital Libraries; Semantic Metadata; Dublin Core; Information Retrieval; Lucene; Solr; FedoraCommons; GATE Mimir; OWLIM

Ontologies and the Semantic Web

Web Ontology Language (OWL); Ontology Editors; Foundations of Description Logics; DL Reasoners; Ontology Learning; Ontology Population

Recommender Systems and Collaborative Filtering.

Theory and Implementation of Recommender Engines.

Semantic Desktops and Semantic Wikis

Integration of Semantic Technologies into Desktop Environments and Information Systems; Case Studies: Semantic MediaWiki, Nepomuk, Semantic Assistants.

Scalable Semantic Systems Engineering

Clustering and Cloud Computing Paradigms; Apache Hadoop and MapReduce; Scalable Web Crawling using Nutch.

The course places a strong focus on the practical aspects of building semantic solutions. Students will have to complete a project on a selected course topic and present their work in class.

Registration is open now.



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