COMP516 Practical 3: Locating and retrieving literature [1] **2012-10-19**

This practical is about locating and retrieving literature, however, you still have a chance to discuss your presentation/essay topic if needed (the submission deadline is today at 6pm).

Last week you were asked to fill the gaps and add citations in a Word document. An example solution to that problem can be seen at https://cgi.csc.liv.ac.uk/~dominik/teaching/comp516/misc/ZoteroSolution.docx. Notice that any correct solution needs both citations (in blue) and additional text (in red). If you are still having troubles with that exercise, ask for help.

Today we will be using some of the following websites to search for literature:
http://library.liv.ac.uk/
http://search.ebscohost.com.ezproxy.liv.ac.uk/login.aspx?authtype=ip&profile=EDS
http://scholar.google.co.uk/
http://academic.research.microsoft.com/
http://www.scopus.com.ezproxy.liv.ac.uk/

1. COMP516 has three recommended textbooks:

   - Christian W. Dawson: Projects in Computing and Information Systems (A Student's Guide). Addison Wesley, 2005.
   - Justin Zobel: Writing for Computer Science. Springer, 2004.
   - Joseph M. Kizza: Ethical and Social Issues in the Information Age, 2nd edition. Springer, 2005.

   Try to find out whether there are copies of these books in our library which are not on loan or otherwise unavailable, and where they are located. If the textbook is available as an electronic resource try to access it.

2. Are there any other books in the library about 'research methods' which have been published after the year 2000?

3. *Handbooks* are a good source for background information on a wide range of research topics in Computer Science, for example,

   - Jan van Leeuwen, editor: Handbook of Theoretical Computer Science. MIT Press and Elsevier, 1990.
   - Andrei Voronkov and John Alan Robinson, editors: Handbook of Automated Reasoning. Elsevier and MIT Press, 2001.
   - Franz Baader et al., editors: The description logic handbook : theory, implementation, and applications. Cambridge University Press, 2003.
   - Patrick Blackburn, Johan van Benthem and Frank Wolter, editors: Handbook of Modal Logic. Elsevier, 2006.

   Are any of these handbooks available in our library? If not, can you find some additional information about them on the web?

[1] This document can be found at
http://cgi.csc.liv.ac.uk/~dominik/teaching/comp516/practicals/practical3.pdf

4. Consider the following reference: research paper:

   - Fausto Giunchiglia and Roberto Sebastiani: Building decision procedures for modal logics from propositional decision procedures - the case study of modal K. In Proceedings of the 13th International Conference on Automated Deduction (CADE-13). LNAI 1104, Springer 1996.

   Try to locate that paper on the web, download it, and open it in a previewer. Is there more than one version on the web? If so, what is the difference between the various versions?

   Document the exact version that you have found by adding it to your Zotero collection of bibliographic data.

5. Another reference is:

   - Franz Baader and Bernhard Hollunder: $\mathcal{KRIS}$: Knowledge Representation and Inference System. SIGART Bulletin **2**(3): 8–14 (1991).

   Try to locate that paper on the web, download it, and open it in a previewer. Add an entry for that paper to your Zotero collection of bibliographic data.

6. As part of the background reading for your essay you will need to consult a number of papers on a variety of topics. Here are two papers loosely related to the topic of formal specification and formal verification:

   - Till Mossakowski, Michael Drouineaud, and Karsten Sohr: A temporal-logic extension of role-based access control covering dynamic separation of duties. In Proceedings of the 10th International Symposium on Temporal Representation and Reasoning / 4th International Conference on Temporal Logic (TIME-ICTL 2003). IEEE Computer Society Press, 2003.
   - Robert F. Stärk: Formal specification and verification of the C# thread model. Theoretical Computer Science **343**(3):482–508, 2005.

   Try to locate these papers on the web, download them, and open each in a previewer. Add entries for these papers to your Zotero collection of bibliographic data.

7. DBLP, which can be found at

   `http://www.informatik.uni-trier.de/~ley/db/index.html`

   is a non-commercial literature database for Computer Science. Try to locate the publications of Boris Konev, a member of our Logic and Computation group, in DBLP.

8. Paul Goldberg is a member of our Complexity Theory and Algorithmics Group. Try to locate his publications using the Scopus literature database. Take note of the problems that you have in doing so. What is the easiest

9. Terry Payne is a member of the Agent ART Group. Find out how many papers he has published in 2007. Try to locate the paper

   - Tamma, V. and Payne, T. R. (2008): Is a Semantic Web Agent a Knowledge-Savvy Agent? IEEE Intelligent Systems, **23**(4):82–85.

   on the web, download it, and open it in a previewer. Add an entry for this paper to your Zotero collection of bibliographic data.

10. Frans Coenen's research area is 'Data Mining'. Use Google Scholar to find some of his papers on this topic.

11. Igor Potapov, another member of the Complexity Theory and Algorithmics Group, works on *Reachability Problems*. Try to find out what reachability problems are and, in particular, try to find documents which he has written on the topic.

Remember that access to publications held by commercial publishing companies or databases is typically restricted. If you are not using a campus PC, then you need to use the EZproxy service, either by accessing the publication via the Library Catalogue or by adding `.ezproxy.liv.ac.uk` to the server name of the publishing company/database, and using your MWS login and password for authentication.