UBLIS571%LearningBlogWeek05

**Week 5. Part 3. Information retrieval: General principles and methods**

**Learning notes and questions Week 5**

You may find helpful to keep a learning blog/diary in which you enter for each week:

1 What have I learned, what was most important, what was most interesting, what was extraneous; what helps me in my (future) work? How?

2 How does a course idea support better service to users, directly or indirectly?

3 How does a course idea relate to other ideas in this course and/or to other courses?

4 Comments on readings – what did it contribute, how hard was it, ...

5 What did I not understand? How does my not understanding this affect my (future) work? **What questions do I have?**

6 Course critique and suggestions;

Want to share with the class? Copy and paste to the discussion board for Week 5

**Any topic**

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**Lecture 5.1** **RDF, Linked Data, SPARQL Query Language**

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**Lect. 5.2 Access to information: data structure & search modes. Retrieval as prediction. Ranking**

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| **Objective #** | **Learning Objectives Check Week 5** | **0** | **1** | **2** | **3** | **4** |
| --- | --- | --- | --- | --- | --- | --- |
| L5.1-1- | **I understand the basics of RDF and its use for storing data as RDF triples (E-R statements with binary relationships) on the Web.** (P2.3.1,1.1.1)  Questions / comments: |  |  |  |  |  |
| L5.1-1.1- | **I am able to write RDF triples in the Turtle serialization format.** (P2.3.1,1.1.1,1**)**  Questions / comments: |  |  |  |  |  |
| L5.1-1.2- | **I am able to define classes (entity types) and properties (relationship types) in RDF following an example.** (P2.3.1,1.1.1,2)  Questions / comments: |  |  |  |  |  |
| L5.1-2- | **I understand name spaces on the Web and their significance and I am able to use name space declarations.** (P2.3.1,1.1.2)  Questions / comments: |  |  |  |  |  |
| L5.1-3 | **I understand the principles and significance of linked data.** (P2.3.1,1.1.3)  Questions / comments: |  |  |  |  |  |
| L5.1-3.1 | **I would be able to work with a systems person to put linked data sets on the Web.** (P2.3.1,1.1.3, 1**)**  Questions / comments: |  |  |  |  |  |
| L5.1-4 | **I am aware of the possibilities of using RDF data sets and linked data to answer users questions and be able learn how to search linked data.** (P2.3.2,2)  Questions / comments: |  |  |  |  |  |
| L5.1-4.1 | **I am aware of and be able use linked data browsers.** (P2.3.2,2.1)  Questions / comments: |  |  |  |  |  |
| L5.1-4.2 | **I am aware of the query language SPARQL and of the concept of a SPARQL endpoint.** (P2.3.2,2.2)  Questions / comments: |  |  |  |  |  |
| L5.2-1 | **I understand and be able to apply the basic principle of searching: use all available evidence to predict the degree of relevance of some entity.** (P2.5.2,1.1)  Questions / comments: |  |  |  |  |  |
| L5.2-2 | **I understand search algorithms: Boolean retrieval and ranked retrieval and the role of synonym expansion and hierarchic expansion in both, and I am able to apply this knowledge in systems that support inclusive searching as well as in systems that do not, including free-text searching. (**P2.5.2,1.3**)**  Questions / comments: |  |  |  |  |  |
| L5.2-2.1 | **I am able to formulate Boolean queries.** (P2.5.2,1.3.1**)**  Comment: |  |  |  |  |  |
| L5.2-2.1 | **I understand the danger of using Boolean NOT.**  Questions / comments: |  |  |  |  |  |
| L5.2-2.2  We will revisit this later | **I understand the role of hierarchy in searching and am able to use hierarchy in searching.** (P2.5.2,1.3.1**)**  Questions / comments: |  |  |  |  |  |
| L5.2-2.2 | **I understand the role of hierarchy in computing relevance scores for documents**  Questions / comments: |  |  |  |  |  |
| L5.2-2.3  We will revisit this later | **I am able to formulate free-text (such as Google) queries enhanced through synonym and hierarchic expansion** (P2.5.2,1.3.3)  Questions / comments: |  |  |  |  |  |
| L5.2-3  Also from L1.2 and L5.1 | **I understand how a given data structure supports answering questions through retrieval and inference, especially how the tables in a database can be used together to answer questions, and how indexes help.** (P2.4.2,1.1)  Questions / comments: |  |  |  |  |  |
| L5.2-4  Not essential, belongs in a database course | **I am able to analyze the storage structures (tables, record formats) of an information system and design simple storage structures, including the use of hierarchical inheritance.** (P2.4.2,1.2)  Questions / comments: |  |  |  |  |  |
| L5.2-5  Not essential, belongs in a database course | **I am able to design simple data access structures (for example, indexes).** (P2.4.2,1.3)  Questions / comments: |  |  |  |  |  |
|  | **An objective you think should be here (from the list or your own)**  Questions / comments: |  |  |  |  |  |
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