

Semantic Web Topics 2016

Assignment 6: Readings on Social Graphs

Assignment 6: 14 points of overall credit score

Due: October 14, 2016 (by midnight eastern standard time) - NOTE this is a day later than usual

Late submission policy: First time with valid reason - no penalty, otherwise 20% of score deducted each late day.

NOTE: THIS IS A TWO-PART ASSIGNMENT. The review must be submitted via email to BOTH Prof. McGuinness d1m@cs.rpi.edu AND Jim McCusker mccusj2@rpi.edu.

Please note the naming scheme – please use this scheme for all assignments.

It is:

<courseName>_<Assignment number>_<YourName>.<fileTypeExtension>.

Naming scheme: Sem2016-AssnNumber_YOUR_NAME.ext

(example Sem2016-1_DeborahMcGuinness.doc)

Note: If you do your work in word or some straight text format, please submit in that over pdf –it makes adding notes easiest.

If possible give us a pointer to a google doc where the following people have WRITE access AND allow us to change access privileges.

Jim McCusker, mccusker@gmail.com and mccusj2@rpi.edu

Deborah McGuinness d1m@cs.rpi.edu and d1m@cs.rpi.edu ,

Sabbir Rashid rashis2@rpi.edu

Compose a paper (up to 5 pages) that reviews and evaluates the assigned papers.

- What are the claims of each paper, how are they justified? 1 pt
- Are the claims grounded in the relevant research and do those references support the claims? 1 pt
- Big box: What are the overall research challenges in this topic? 2 pts
- Small box: How do the conclusions and discussions of these papers point towards a broader question or perspective in the research? - 2 pts

Additional points for the overall assignment:

2 points writing quality/style

2 point for paper structure and flow

Each class 2 students will present material. You will be graded on the content of the material presented and your presentation itself.

Present the following as if the class has not yet read the paper

- The background and problem that the paper is attempting to address. 1 pt
- How do the themes in this paper relate to (how are they similar or dissimilar) the themes in the other papers. 1 pt
- **Why should our audience care about this work? 2 pt**
- **How could you use the work reported on in this paper? Or how could one of your colleagues in the class use the work reported on in this paper? 2 pt**
- 2 pts for presentation style (includes your presentation itself but also is there a final take home message from the presentation - might be why someone in the audience might care or what they might use) - total presentation grade 8 pts

Prepare for 10 minutes of speaking.

People who are not presenting will be graded on class participation.

Assigned Papers

1. Spivack, Nova. [Defining the Semantic Graph — What is it Really?](#)
2. Ugander, Johan, Brian Karrer, Lars Backstrom, and Cameron Marlow. "[The anatomy of the facebook social graph](#)." arXiv preprint arXiv:1111.4503 (2011).
3. Tan, Chenhao, Lillian Lee, Jie Tang, Long Jiang, Ming Zhou, and Ping Li. "[User-level sentiment analysis incorporating social networks](#)." In Proceedings of the 17th ACM SIGKDD international conference on Knowledge discovery and data mining, pp. 1397-1405. ACM, 2011.
4. One more paper that analyzes social graphs with some element of semantics involved and highlight how semantics are used or might be used more.
5. Of note: Mika, Peter. "Ontologies are us: A unified model of social networks and semantics." Web semantics: science, services and agents on the World Wide Web 5.1 (2007): 5-15. <http://www.websemanticsjournal.org/index.php/ps/article/viewFile/106/104>

Update Progress on Research Review

Please submit a paragraph detailing your progress on your research review paper as part of the above assignment. 4 points.