**CS3114 Opinion Survey**

Opinions on Visualizations, eTextbooks, and Scheduling

We are conducting a study of your experiences and opinions regarding some aspects of the CS3114 course. We also would like your opinion on ideas that we have for the future to make the class better. The principal investigators for this study are: Dr. Cliff Shaffer and Dr. T. S. Hall. There is no risk for you to participate in this study. The survey is conducted anonymously, and all data reporting will be in aggregate form.

You may ask questions about this research by contacting (540) 231-4354 or [shaffer@cs.vt.edu](mailto:shaffer@cs.vt.edu). For questions about your rights as a research participant, contact Virginia Tech’s Office of Research Administration at (540) 231-6866.

Your participation is voluntary. You must be 18 or older to take part in this research.

Thank you for your participation.

**Hashing Tutorial**

1. Have you found the algorithm visualizations that we used in class to be helpful?
2. Not at all helpful
3. Not much
4. Neutral
5. Somewhat helpful
6. Very helpful
7. Do you believe that the hashing tutorial that we used in class taught you less or more than a week's worth of lecture on that material would have done?
8. Taught much less
9. Taught a little less
10. Taught about the same
11. Taught some more
12. Taught much more
13. Which would you prefer more: Attending a week's worth of lecture on hashing, or working on the hashing tutorial in class?
14. I would much prefer attending a lecture on this material
15. I would slightly prefer attending a lecture on this material
16. I have no preference between attending a lecture or working on the tutorial
17. I would slightly prefer working on the tutorial in class
18. I would much prefer working on the tutorial in class
19. Do you think that there is any benefit to working on the hashing tutorial in class, as opposed to doing it on your own outside of class (such as at home)?
20. I would benefit much more by working on it outside of class
21. I would benefit slightly more by working on it outside of class
22. I don’t think it makes any difference between working on it in class or outside
23. I would benefit slightly more by working on it in class
24. I would benefit much more by working on it in class
25. Please give additional comments on your opinions about the hashing tutorial.

**Electronic vs. Paper Textbooks**

1. The course textbook is available for free as a PDF online, or you can purchase a hard copy. Did you purchase a copy of the textbook?
2. Yes
3. No
4. For a regular textbook, do you prefer a paper copy or an online copy (such as PDF) or a paper copy?
5. Definitely prefer a paper copy
6. Slightly prefer a paper copy
7. I don’t care either way
8. Slightly prefer an online copy
9. Definitely prefer an online copy

The following questions ask you about the concept of an online textbook of a particular type, far different from just a PDF of a paper book. This form of electronic textbook would include lots of algorithm visualizations (like the hashing tutorial), and also lots of questions and exercises that you would work through, giving immediate feedback to help you determine if understand the material.

1. Do you find this idea of an online textbook with visualizations, interactive exercises, and questions with feedback to be an attractive idea?
2. This sounds like a horrible idea, I wouldn’t want to be in a class like that
3. I doubt it could work
4. I am neutral
5. It sounds promising, if it could be done right
6. This sounds like a wonderful idea, I wish I could take a class like that
7. Would you prefer a class that is a traditional “lecture based” class as CS3114 has mostly been this semester, or would you prefer a class that is “lab based” in the sense of spending much of the time working through online materials to learn the content.
8. I definitely would prefer a lecture-based class
9. I slightly would prefer a lecture-based class
10. I am neutral
11. I slightly would prefer a lab-based class
12. I definitely would prefer a lab-based class
13. Please give additional comments on your opinions about the concept of an electronic textbook.

**Scheduling**

1. Do you believe that the schedule sheet process has helped you to get a better grade on your projects?
2. This process has definitely hurt me
3. This process has slightly hurt me
4. This process has had no effect on my grades either way
5. This process has slightly helped me
6. This process has definitely helped me
7. Do you feel that we should keep the scheduling sheet process?
8. I definitely think no, get rid of it
9. I slightly think no, get rid of it
10. I don’t care either way
11. Slightly yes, keep it
12. Definitely yes, keep it
13. Do you report accurate times on your schedule sheets?
14. No, I totally make them up at the end to satisfy the requirements.
15. Not really, but I give my best guess at the end
16. It is somewhat accurate, but not so much
17. I roughly track my time, so it is reasonably accurate
18. I carefully track my time, so it is pretty accurate
19. Please give any additional comments that you have about the schedule sheet process.