

CMSC 818G

Spring 2013

Final Exam

Instructions:

- You may prepare the answers using any means between 8 AM and 10 AM. If your answers are in a machine form you can e-mail them so that it is in my inbox by 10:30 AM. If you write all the answers by hand or have any sketches in addition to the answers you typed on the computer you must deliver them to my office by no later than 12 Noon.
 - If you do not find me in my office, please give anything you need to give me, to Preeti in AVW 4160.
 - If you use any sources (including the web) you must include the references appropriately
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We have discussed many aspects of Context-aware Systems and seen some approaches and examples of such systems that have been designed/implemented. You have to propose a system which is to be deployed in 2-5 years with the goal of improving the quality of life of its users in a very substantial way. The system can be in any domain (e.g. health, shopping, social interactions, transportation, etc.) of life. Note that the examples are only to illustrate and you DO NOT have to necessarily select one of these.

Answer the following questions about your system (be brief but say enough so that I can understand your ideas):

1. What is the main scope/ domain of use/purpose of your system?
2. Who are the primary users?
3. In what way does it improve the quality of life of its users in a substantial way compared to the systems today?
4. What are you assuming about the infrastructure available when your system is deployed?
5. What user devices does your system use and how they are different from the devices available today?
6. What sources of information does your system use?
7. Are you using special sensors? If so what are they and how are they to be used?
8. Is your system centralized in that it uses a central server?
9. What contextual information does your system use? How it is acquired? Where it is kept? How it is used?
10. Is your system scalable?
11. How much would you be willing to pay to buy/use such a system?

Feel free to include as many or as few diagrams as you need to illustrate your answers.