

CS377S

DESIGNING APPLICATIONS THAT SEE

Computer Vision for HCI



PROJECT PROPOSAL

Due February 21, 2008

The goal of the project proposal is describe your idea and justify why it is worthwhile. You should explain what you want to do, provide a bit of background in your topic area, and argue persuasively that your idea will lead to a good project. You should research and write the proposal as a group, and submit a single copy for your team. The proposal should be 1-2 pages in length. The structure is up to you, but here are some things that a good proposal should include:



Project Idea

- **Basic Concept:** What is this project about? This is not a complete product specification. It is a concise description of the idea, but with enough detail to make it absolutely clear what is being attempted.
- **Need Assessment:** Who will use this device or program? Why do they need it? What do they use now?



Questions to Ponder

- **Related Work:** What has already been done in this area? What are the strengths and weaknesses of existing products? What areas have not been addressed? If this is a brand new idea, how does it relate to existing products, and why hasn't it been done before?
- **Why your project will be better:** What will you do to advance the state of the art? What will be possible with your product that isn't possible now?
- **Assessment of risk:** What are the major risks in the project you are attempting? If you fail, what will be the most likely cause? What can you do to reduce the risk?



Implementation Issues

- **Algorithms:** How might the computer vision component of the project work? What computer vision techniques or algorithms are you thinking of using?
- **Hardware:** What input and output devices will you use? Will you need any special hardware?
- **Software:** What language are you planning to code in? What software libraries and development tools are you planning to use?

Bring your proposal to your Thursday project meeting to hand in.