

March 11, 2008/3/11

Reading:

- David Tennenhouse. Proactive computing. CACM May 2000
 - Gregory Abowd, Elizabeth Mynatt. Charting past, present and future research in Ubiquitous computing. TOCHI 7(1), 2000. pp. 29-58.
 - Yvonne Rogers. Moving on from Weiser's Vision of Calm Computing: Engaging UbiComp Experiences. UBICOMP 2006.
 - Mark Weiser. Some computer science issues in ubiquitous computing. CACM, 36(7):75-85, July 1993.
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Group discussion (after the Abowd and Tennenhouse Papers)

Groups #1/#2:

On natural interfaces: "It is at this point that application designers begin working with these new systems to develop novel uses, often focusing on implicit user input to minimize the intrusion of technology into everyday life." On context-aware: UbiComp applications need to be context-aware, adapting their behavior based on information sensed from the physical and computational environment.

- Can you think about some novel application scenarios of context-awareness and/or natural interfaces in **restaurants** or **home/dorms**? Describe your proposed application in term of the sensed context and the adapted behaviors.
- How would you evaluate your proposed systems if they were developed? What would be social issues?

Groups #3/#4

On Proactive computing: "I am convinced that the first steps toward a new agenda must include: a fundamental reexamination of the boundary between the physical and virtual worlds (**getting physical**), changes in the time constants at which computation is applied (**getting real**), and movement from human-centered to human supervised (or even unsupervised) computing (**getting out**)"

- What other technologies have been "proactive"?
 - Can you think about some novel application scenarios of proactive computing?
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Group discussion (after Rogers paper)

"Weiser's idea that technologies be designed to be 'so embedded, so fitting and so natural' that we use them without thinking about them needs to be counter-balanced; we should also be designing them to be exciting, stimulating and even provocative While Weiser promoted the advantages of **calm** computing, I advocate the benefits of **engaging UbiComp experiences** that provoke us to learn, understand and reflect more upon our interactions with technologies."

Groups #1/#2:

- Critique the Calm Slippers from CMU.
- Critique Garmin Car Navigation system for a driver driving in a new area, again based on UbiComp concepts learned today.

Groups #3/#4

- Critique LeapPad Learning system for kindergarten children's learning based on UbiComp concepts learned today.
- Critique Ambient Device's Ambient Umbrella

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