

May 12, 2008

Reading:

- James Scott and Boris Dragovic. Audio location: accurate low-cost location sensing. Pervasive 2005.
- Robert J. Orr and Gregory D. Abowd. The smart floor: a mechanism for natural user identification and tracking. CHI 2000.
- D. Dearman, A. Varshavsky, E. D. Lara, K. Truong. An exploration of location error estimation. UbiComp 2007.
- Hao-Ji Wu, Ho-Lin Chang, Chuang-Wen You, Hao-Hua Chu, Polly Huang. Modeling and optimizing positional accuracy based on hyperbolic geometry for the adaptive radio interferometric positioning system. LOCA 2007.
- Ho-Lin Chang, Jr-Ben (Ben) Tian, Tsung-Te Lai, Hao-Hua Chu, Polly Huang. Spinning beacons for precise indoor localization. in submission.
- Arvin Wen Tsui, Hao-hua Chu. Unsupervised learning for solving RSS hardware variance problem in WiFi localization. in submission.

---

---

Group discussion

- Localizing web content: can you think about what web contents, when localized, could be used in a way that significantly enhance its value (e.g., more fun, more personalized, usable, etc.)? How about social network applications, search results, photo sharing? Have you seen any good applications of Google earth or Microsoft Virtual Earth?
- People have been talking about location-based services (LBS) for a long time. Obviously, they have not taken off yet. For those with location pessimistic, why is adding location to the web not ready or not useful? What need to be done to make location useful and practical on the web?
- Privacy issue: would adding such location information to your specified web content (above) raise any privacy issues? How do you deal with the privacy issue?

---

---

Group discussion

- What limitations or problems do you see in the papers “Spinning beacons for precise indoor localization” & “Unsupervised learning for solving RSS hardware variance problem”? How would you extend/improve their systems?