Classroom Presenter

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Classroom Presenter

- Tablet PC based presentation and classroom interaction system
- University of Washington research project
- Widely distributed – free download
- Started at Microsoft Research (2001-2002)
- HP Mobility Grants: 2003, 2004
- 2008 Premier Award for Engineering Courseware

Classroom Presenter as a presentation system

- Integration of electronic slides and digital ink

Classroom Presenter as a distributed system

- Mobility
  - Walk and talk
- Student note taking
- Distance learning
  - Viewing slides at a remote site

Classroom Presenter as an interaction system

- Interaction system:
  - Student devices communicate with instructors device
  - Mediated by lecture slides

Student Activities
Draw a picture of something from your field of engineering:

To submit your picture, press the button.

Student Attention vs. Time

Pedagogical Goals

- Active learning
  - Problem solving
  - Engagement in topic
- Classroom Assessment
  - Determine level of understanding to adjust material
- Inclusion of student materials into discussion
  - Diversity of ideas
  - Examples to illustrate points
  - Discussion of misconceptions
  - Interest survey

Special problem: Large Size

- List at least three problems trees must face (& solve) because of their large sizes.
  1.
  2.
  3.

- Additional:

What is your favorite animal?

A. Husky
B. Cougar
C. Duck
D. Beaver

Image capture
UW Deployments: CSE
- Data structures
- Algorithms
- Digital Design
- HCI
- Software Engineering

UW Deployments: ESRM
- Environmental Sciences and Resource Management
- Collaboration with the College of Forestry
- Course redesign around projects and field work

UW Deployments: TVI
- Tutored Video Instruction
- UW Algorithms Course offered at Beihang University
- Classroom Activities used by Teaching Assistants

UW Deployments: PMP
- Synchronous Distance Course
  - UW, MSR, LUMS Pakistan
- Computing for the developing world course
- Classroom activities between all sites

Other deployments
- Academic disciplines
- Geographic
- K-12 / Higher education

Presenter-profs
- Feature requests
Where is “interaction” useful?

Future work
- Scalability
- Richer features
- Heterogeneous devices

Questions?

Contact Information
- \texttt{http://classroompresenter.cs.washington.edu}
  - Software downloads
  - Source code
  - Getting started guide
  - Talks and papers
  - Video
- \texttt{anderson@cs.washington.edu}
- presenter-profs mailing list

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