Classroom Interaction with Tablet PCs

Classroom Presenter
Tablet PC based classroom interaction system
Developed at University of Washington
Built on ConferenceXP Research Platform

Pedagogical goals
Lower barriers for participation
Integrate student work into discussion to promote peer learning
Provide feedback to the instructor on student understanding

Student Submissions
Instructor's slides broadcast to student devices
Slide based activities embedded in lecture
Students answer activities with digital ink and send results wirelessly back to instructor
Instructor selectively shows student work on public display
Student work displayed anonymously

Research Questions
How do the stakeholders react to the technology?
Does the student submissions pedagogy increase engagement?
Which types of activities support the educational goals?
Can we transfer best practices between instructors and disciplines?

Methodology
Study wide range of deployments
Classroom observation to understand practice
Surveys and interviews
Artifact analysis

Study plans
University level courses
Courses at UW with supplemental results from external partners
Courses under study:
Environmental Science
Data Structures
Software Engineering
Digital Design

Classroom Presenter is free for educational and non-commercial uses. It is available from:
www.cs.washington.edu/education/dl/presenter/

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