BUILDING A BETTER MOUSETRAP: BEST PRACTICES FOR COMPUTER-BASED TESTING

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AGENDA

- MOTIVATION
- CBT TRENDS
- WHY ADOPT?
- BEST PRACTICES
- QUESTIONS
MOTIVATION

• SPRING 2019 IT 261 POLL
• SCHOOL OF IT - CBT USAGE < 50%
• IT FACULTY
MOTIVATION

• SPRING 2019 IT 261 POLL
• SCHOOL OF IT - CBT USAGE < 50%
• IT FACULTY - CHEATING
MOTIVATION

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• WHAT'S IT LIKE CAMPUS-WIDE?
• ADVOCACY
TRENDS

- Roots go back 100 years (Binet, Adaptive Testing)
- Corporate Training
- College Admission Testing
- Has not supplanted paper-based testing
UI URBANA-CHAMPAIGN - PRARIELEARN

• FOUNDED IN 2014 (SIIP GRANT)
• 85 AND 35 SEAT FACILITIES
• STUDENTS SELECT CONVENIENT EXAM TIME – CAN CHANGE WITHOUT FACULTY
• FACULTY – INVEST TIME UPFRONT TO DEVELOP MEANINGFUL, AUTHENTIC QUESTIONS
WHY USE CBT?

• STUDENTS
• IMMEDIATE FEEDBACK
• LOCATION FLEXIBILITY
• RESPONSE REVISION
• CONVENIENT ACCESS TO THEIR ANSWERS
• SECOND-CHANCE TESTING
TEST ANXIETY HAS NEGATIVE IMPACT ON PERFORMANCE

ANXIETY LEVELS IN CBT OFTEN EXCEED PAPER BASED
WHY USE CBT?

• FACULTY
  • CONVENIENCE
  • DESIGN OPTIONS
  • QUESTION POOL
  • AUTOMATED GRADING
  • ITEM ANALYSIS & COURSE ASSESSMENT
DESIGN OPTIONS

• REGGIENET EXAMPLE
ITEM ANALYSIS

• REGGIENET EXAMPLE
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YOU SOLD ME! NOW WHAT?

• BEST PRACTICES
  • PLACE ALL QUESTIONS ON ONE WEB PAGE
  • SMART PHONES: LIMIT TO QUIZZES ONLY
  • MONITOR EXAM STATUS
  • TRIPLE-CHECK SETTINGS BEFORE PUBLISHING EXAM/QUIZ
  • MANUALLY GRADE SHORT ANSWER/FILL IN THE BLANK/ESSAY
“I HAVE A QUESTION”

- True
- False