

Bureau of Educational Research:
2010-2011 Seminar Series

Computerized-Adaptive-Testing that Changes the Way We Address Challenges in Assessment & Learning



DR. HUA-HUA CHANG

2010-2011

DISTINGUISHED SENIOR SCHOLAR

Professor, Educational Psychology

WHEN:

THURSDAY, October 7th 12-1:00PM

WHERE:

242 EDUCATION BUILDING

Computerized Adaptive Testing (CAT) has become popular in many high-stakes educational testing programs. The major advantage of CAT is that it provides more efficient trait estimates by presenting examinees only with items that are near their estimated ability level. A new design of CAT also provides feedback about students' individual educational needs in addition to the single "overall" score. In fact, the US government requires that such diagnostic feedback is provided to parents, teachers, and students as soon as practical.

In this presentation a CAT design based on the cutting-edge Browser/Server Architecture will be introduced. Dr. Chang's research shows that CAT can be used effectively not only to estimate an examinee's latent trait, but also to classify the examinee's mastery levels of the skills the test is designed to measure. CAT is revolutionarily changing the way we address challenges in assessment and learning.