CRMSE Colloquium Announcement

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Integrating Change in Mathematics Instruction: On the Use of Learning Analytics

Friday, May 9, 2014
1:00 – 2:00 pm
6475 Alvarado Road, Suite 128

RSVP: http://crmse.wufoo.com/forms/crmse-colloquia/ or email Karen Foehl Palmer at kfoehl@mail.sdsu.edu

Abstract: Learning analytics/educational data mining have become buzzwords of the day as "big-data" methods increasingly allow us to assimilate and analyze data on students to understand learners and learning environments. In this talk, we will briefly introduce and discuss our take on learning analytics. We will then present results from two recent studies on pedagogical reforms in statistics instruction through the SDSU ITS Course Design Institute (CDI) and the CSU Promising Course Redesign program. The studies consider student success in an online offering of a core applied statistics course and pedagogical reforms in an excess enrollment elementary statistics bottleneck course, respectively. Each of these studies leverage SDSU student information, learning management system, and course-specific assessment data towards studying student success relative to the redesign efforts, characterizing the successful student, and creating an analytics infrastructure for identifying at-risk students. A secondary, but important goal of this talk is to spur discussion amongst science educators, instructional technology experts, and statisticians/data scientists on analytics as a tool for improving learner success.