CRMSE Colloquium Announcement

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Importance of Spatial Situation Model Construction During Text Comprehension of a Mathematical Problem

Friday, March 29, 2013
1:00 – 2:00 pm
6475 Alvarado Road, Suite 128

RSVP: https://crmse.wufoo.com/forms/crmse-colloquia/ or Karen Foehl Palmer, kfoehl@mail.sdsu.edu

Abstract: This study addresses the differences in the construction of spatial situation models in third grade students of high school when faced with a problem that has been present in the history of mathematics, at least since the seventeenth century. This study focuses on reading comprehension phase known as Situational Model or also mental representation of situation (Kintsch, 1986). We applied, to a total of 193 junior high-school students, four versions of the problem "The tree broken by the wind." The results indicate the importance of the situation model during text comprehension of the problem and its possible implications for the subsequent construction of the mathematical model and solving it. From the perspective of embodied cognition, recently we are starting an exploratory study on the spatial situation model construction through the theoretical perspective known as the Immersed Experiencer Framework (Zwaan, 2003; Zwaan & Radvansky, 1998).