CRMSE Brown Bag Lunch

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Argumentation within a Haptic Environment

Friday, January 18, 2013
12:30 – 1:30 pm
6475 Alvarado Road, Suite 128

RSVP: https://crmse.wufoo.com/forms/crmse-colloquia/ or
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Abstract: Argumentation in the context of mathematics education has been focused on in two ways: (a) an interactive process involving conjecturing, explaining, justifying and challenging, and (b) as a product (i.e. argumentation is the process of presenting an argument, so the argument is the product under scrutiny). In the world of haptics, there is very little research that focuses on haptics within the context of education or learning. Due to the importance of argumentation, and the affordances of haptic technology, it is important to consider what the argumentation within a haptic environment looks like, as well as to determine what type of role the technology plays in shaping the argumentation that emerges. I have used a subset of data from the NSF-funded Dynamic Haptic Geometry project REC-0835395 at the Kaput Center for Research and Innovation in STEM Education. In this talk, I explore what argumentation looks like in this new environment and describe the possible ways in which we can use discourse analysis as an analytical approach. Additionally, I raise the possibility of certain themes that emerge from this environment regarding the technology as a mediating factor in the development of the argumentation.