Daniel Brinkman

SJSU

The Mathematics of (Simple) Object Recognition

OCTOBER 7, 2016, MH320

Abstract: The applications of computer vision are large and wide-reaching. There are many different techniques for recognizing simple objects with various different mathematical underpinnings. We begin by discussing the basic categories of mathematical object recognition and then discuss one specific example: Shape Histograms. Through this lens we discuss some common challenges in the field and give some easy numerical results.

Background: Most of the talk should be accessible to students with Calculus II; some familiarity with discrete math will also be useful.

About the speaker: Dan Brinkman is an Assistant Professor in the mathematics department at SJSU. He completed his PhD at the University of Cambridge in 2013 before working as a Visiting Assistant Professor at Arizona State University. His research is in the broad area of applied partial differential equations with a recent emphasis on multiscale numerical methods for electronic devices.

SNACKS IN MH331B AT **2:00 pm**
TALKS START AT **2:30 pm**

For more information, see our full schedule at:

http://www.math.sjsu.edu/~hsu/colloq/