The Math/Stats Colloquium
Department of Mathematics and Statistics
San José State University

Sogol Jahanbekam

SJSU

Graph Partitioning Technique
to Identify Physically Integrated Design Concepts

NOVEMBER 14, 2018, MH320

Abstract: A coloring over the vertices of a graph is said to be proper, if no pair of adjacent vertices receive the same color. Proper coloring of graphs (graph partitioning methods) is a well-studied topic in graph theory that has many applications in different fields. In this talk we apply graph partitioning techniques to study some problems in additive manufacturing. The aim is to find the smallest number of parts needed to design a product in such a way that there is no pair of conflicting functional requirements.

Background: Discrete math (Math 42).

About the speaker: Sogol Jahanbekam received her PhD in graph theory from the University of Illinois. She did her postdoc position at the University of Colorado Denver. Before joining SJSU she was an assistant professor at Rochester Institute of Technology.

SNACKS IN MH331B AT 2:30 PM
TALK STARTS AT 3:00 PM

For more information, see our full schedule at:

http://www.timhsu.net/colloq/