



**SDSU**  
presents  
a thesis defense for  
Master of Science  
degree in  
Computer Science

Wednesday,  
November 13, 2013

3:30pm  
GMCS 405

# Srivenkata Gantikota

*TimeLine Feature Package for MapObjects, Java Edition*

## Abstract

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The main incentive behind development of this tool is to offer an interactive GIS environment to the users. This tool is developed keeping in mind both the expert GIS MOJO users as well as amateur users. Interactive tools to demonstrate a behavior that ranges over a period of time can be both an educative and an entertaining experience. Pictorial display of the facts at critical points with the help of the slider by the tool helps the users to grasp faster and retain the information. This tool visually associates events to dates where dates are accessed by a slider. This feature is intended to assist the user in gaining an intuitive idea of the order in which the events occurred. This feature is beyond what information a static table could do for a user.

This tool helps in creation of a MOJO map integrated with a timeline slider bar. The users can enter the input and observe its behavior on the map using the slider bar. The advanced users can customize the features according to their requirements. The features of this tool are demonstrated using Olympic Hosting Cities as an example.

## Thesis Committee:

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Carl Eckberg, Thesis Chair, Department of Computer Science  
William Root, Department of Computer Science  
Gary Girty, Department of Geological Sciences