



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

Monday,
March 30, 2015

4:00pm
GMCS 405

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GIS Based Application on Home Front and People Involved During World War II

Abstract

The purpose of this application is to demonstrate why and how World War II happened, and what were the roles of Europe and Asia in World War II. The tool was co-written with Sourabh Gupta. My focus was on personalities involved, and auxiliary information not central to the fighting, and less commonly presented. The application is developed in Java with MOJO (Map Objects Java Objects), provided by ESRI.

This software is a graphical interface tool developed to inspire students to learn and explore facts about World War II visualized through various aspects, including Europe's role and Asia's Role. Multimedia like audio, video, text, images and links to the Internet are used to make the application more interactive and informative, which could help enhance student's interest and motivation for learning.

The tool allows students to click on different countries on a world map and explore a great deal of information by facts, figures and graphs. Administrative control is provided to the application, which allows one to add, update or modify the data, which makes the information up-to-date for students. For self-analysis there are some practice quizzes, which allow student to learn in a fun way. The tool is easy to deploy, easy to use and can be configured manually by making changes to a configuration file.

Thesis Committee

Carl Eckberg, Thesis Chair, Department of Computer Science
Guy Leonard, Department of Computer Science
Vadim Ponomarenko, Department of Mathematics & Statistics