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

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GMCS 405

SAN DIEGO STATE
UNIVERSITY
Leadership Starts Here

Ashish Konda

An Interactive GIS Tool on Chinese History and Its Topography

Abstract

The aim of the thesis is to demonstrate how China was attacked by the foreign powers, the rise and fall of the empires, the border conflicts with India, Russia, Vietnam and territorial disputes in South China Sea.

This thesis is focused on creating a GIS tool showcasing the modern Chinese history, which includes the major wars fought during that period. This tool is developed using the features of Google Maps that shows the location of the wars. The topography of China is also represented on the interactive Google Map by creating layers for rivers, mountain ranges and deserts. The provinces with highest population are also represented on the Google Map with circles.

The application also shows the historical events in chronological order using a timeline feature. This has been implemented using JQuery, JavaScript, HTML5 and CSS. Chinese Culture and biographies of important leaders are also included in this thesis, which is embedded with pictures and videos.

Thesis Committee

Carl Eckberg, Thesis Chair, Department of Computer Science
Alan Riggins, Department of Computer Science
Mark Dunster, Department of Mathematics & Statistics