The Department of Computer Science and Engineering

University of Nevada, Reno

cordially invites you to a Master's colloquium

A Video Library Management Software Toolkit for the Nevada Climate Change Portal

A thesis submitted in partial fulfillment of the
requirements for the degree of Master of Science
with a major in Computer Science.

by

Aarti K. Dhone

Abstract: Web-based video libraries represent a recognized and useful method of gathering contributions in the form of videos to research information that is provided from various users. Video libraries can be more effective and innovative, as compared to other more usual forms of video libraries, in terms of accessibility, flexibility, streaming, cost, and several other factors. These factors are essential for the development of commercial video library management toolkits and are being increasingly adopted in commercial web-based video libraries.

The Video Library Management Software Toolkit for the Nevada Climate Change Portal (in short, VLMST for NCCP) presented in the thesis is a web-based video management system designed to be integrated in the Nevada Climate Change Portal (NCCP) that is being developed at the University of Nevada, Reno as a part of the NSF EPSCoR funded project Nevada Infrastructure for Climate Change Science, Education and Outreach. One of the primary goals of this toolkit is to ensure that the users of the Nevada Climate Change Data Portal have equal access to participate in, contribute to, and benefit from all the functionalities provided by this specialized video library. VLMST is a web-based video repository that uses the server-client technology, which allows management and sharing of videos for the purpose of enhancing research and education. The proposed solution incorporates the forthcoming HTML5 technology, including the accessible video capability, allowing users to utilize cross-browser compatible video control. The thesis presents the software specification, the design, and the prototype of the VLMST. It highlights VLMSTs distinguishing characteristics, compares it with several related tools, and points to a number of directions of future work.

10:00 am, Tuesday, July 31, 2012

Scrugham Engineering and Mines (SEM) room 201

For more information contact

Dr. Fred Harris @ 784-6571 (Fred.Harris@cse.unr.edu)
or
Dr. Sergiu Dascalu @ 784-4613 (dascalus@cse.unr.edu)