

Moseley and Moonga Make Presentations at SITTE

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Dr. Warren Moseley, associate professor in the computer science and information systems department at Southwestern Oklahoma State University, recently presented a refereed research paper at the 16th annual conference of the Society for Information Technology and Teacher Education held in Phoenix, Ariz.

The title of the paper was "A Software Reference Architecture for Pervasive Embedded Consistent Internetworking Devices for Distance Learning for the Severely Physically Challenged." The paper was done in conjunction with Medhi Raoufi, instructor in the computer science and information systems department.

The conference is a part of the Association Advancement of Computing in Education.

The paper presents research in the area of repeatable software for pervasive embedded computing and its potential for the severely physically challenged for use on the internet. This is a part of a cooperative effort between several universities and companies on three different continents (North America, Europe, and Asia) to share research experiences in the development of software for the physically challenged.

Moseley was also involved in a poster session at the conference with SWOSU student Kay Moonga. They presented a poster session entitled "Teaching Critical Skills Thinking by Digital Video Analysis of a Colony of Autonomous Robots."

The poster session describes a project in which students are required to elucidate and demonstrate critical thinking skills by constructing a colony of cooperating autonomous communicating robots to carry out goal directed tasks. In addition to the building and programming of the robots, the student must create video clips of the performance and behavior of their robots with detailed explanations of the thought process involved in the formulation of the requirements for the behavior and also to the formulation of the software requirements for the programming of these behaviors into the existing robot community.

Throughout these video clips, the students were to explain how the robotic behaviors traced back to the original requirements for the robotic community and how the programs generated in this project traced back to the original software requirements. The students were required to produce interview clips with the customer, and to intermingle the video clips with the video clips of the robot demonstrations to show how their robots fulfill the behavioral requirements. Other student participants in the project were Roy Evans and Chad Hoffman.

Another poster session at the conference was on the Oklahoma Rural Math and Science Partnership (OK-RMSP). The Oklahoma State Department of Education through the Hydro-Eakly Public Schools sponsored a program called "OK-RMSP: Oklahoma Rural Mathematics and Science Partnership."

The program focus is to increase content knowledge, expand the information technology readiness, and the creation of standards-based mathematics and science lessons for K-12 teachers in rural western Oklahoma. The primary function of the

award is K-12 teacher training. The program serves to alleviate the relative isolation of teachers in rural Oklahoma classrooms and provide rich supplemental learning experiences in areas where formal and informal resources are sparse. The combination of university and pre K-12 teaching faculty will connect current mathematics and science content and research with practical classroom applications and teaching standards.

Other SWOSU faculty that participated in the OK-RMSP included: Dr. Brian Campbell, Dr. Kyle Ashby, Dr. Catherine DeVaughn, Dr. Robbie McCarty, Dr. Charles Rodgers and Rocky Powell.