

*The University of Alabama
Department of Computer Science
Colloquium Series Speaker*

Prof. Stephen V. Rice
Department of Computer Science
The University of Mississippi

"The Comparisonics Technologies for Audio Comparison, Search, Display, and Monitoring"

**Friday, October 1st
11:00 a.m., HO 108**

Abstract:

The cornerstone of the Comparisonics technologies is a unique "sound-matching" algorithm for measuring the similarity of sounds. This algorithm has a wide range of applications. It can be used to search audio databases based on sound similarity (a "sounds-like" search) and has been incorporated into FindSounds.com, the first Web search engine for sound effects. It can also be utilized in a general-purpose "listening" system to compare sounds in real time, especially useful for machinery monitoring. The patented Comparisonics waveform display colors the audio waveform display based on the frequency content of the audio data, with similar sounds being represented by similar colors, and changes in sound made evident by changes in color.