

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

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A Progression of Models for Digital Forensics

Wednesday, April 14th

Presentation at 11:00 a.m. in SEC 3437, refreshments across the hall in SEC 3438 at 10:45 a.m.

Abstract:

Digital forensics is a field of academic study unlike many others. It grew from the bottom up, and until very recently, digital forensics problems were solved by practitioners finding the best way to recover evidence from the computer that they were examining. Around 2001, a concerted effort began to develop an overarching theory and science for digital forensics, and universities around the country jumped on the bandwagon. When Mississippi State University got involved in 2002, there were less than 10 schools in the country doing serious work in digital forensics. Today, there are over a hundred. Because of a media size explosion and the rapid expansion of the use of smartphones and other digital technologies, the problem of examining those technologies and investigating the crimes committed with, against, or with the support of those technologies has grown exponentially. This talk will present a progression of models developed by the digital forensics research group to understand evidence associated with cyber crime and to get a handle on dealing with a rapidly expanding volume of evidence associated with these crimes.

Bio:

Dave Dampier is a 1984 graduate of the Department of Mathematical Sciences at UT El Paso. He got his M.S. and Ph.D. degrees in computer science from the Naval Postgraduate School in 1990 and 1994 respectively, and now serves as an Associate Professor in the Department of Computer Science and Engineering at Mississippi State University. Dave Dampier has over 20 years service in the U.S. Army culminating with a tour as a Professor at the National Defense University in Washington, DC. He retired from the Army in 2000 and joined the faculty at MSU. In addition to teaching software engineering and computer forensics, he also directs the National Forensics Training Center, a USDOJ funded activity responsible for training state and local law enforcement in cyber crime investigation techniques.