



January 4-7, 2011, The Grand Hyatt Kauai Resort & Spa, Koloa, Kauai, Hawaii.

## **Track: Software Technology**

## **Minitrack: Digital Forensics – Education and Research**

This minitrack attempts to bring together papers from academia and practitioners which address current directions in digital forensics – both research and education. Digital forensics involves the use of software, computer science, software engineering, and criminal justice procedures to explore and or investigate digital media with the objective of finding evidence to support a criminal or administrative case. It involves the preservation, identification, extraction, and documentation of computer or network evidence.

This minitrack will solicit papers in the following areas:

- Education papers that describe digital forensics degree programs or the teaching of digital forensics within other programs internationally.
- Papers that address a research agenda that considers practitioner requirements, multiple investigative environments and emphasizes real world usability such as visualization.
- Papers that present an experience report involving the discovery, explanation and presentation of conclusive, persuasive evidence from digital forensics investigation.
- Papers that are “forward thinking” and identify approaches to solving the digital forensics challenges of the future.
- Papers that combine research and practice

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**Kara Nance** received her PhD from the University of Oklahoma in 1991. She is Professor and Chair of the Computer Science Department at the University of Alaska Fairbanks. Her research interests include digital forensics, data systems, and computer security. She is a frequent contributor to information security conferences and journals. Dr. Nance serves as director of the Advanced Systems Security Education, Research and Training (ASSERT) Center. The ASSERT Center at the University of Alaska Fairbanks is a multidisciplinary center devoted to Advanced System Security Education, Research, and Training, which she founded. The center provides curriculum development, program development, workshops, research opportunities, K-12 outreach, and access to IA research resources and provides an isolated networked computer environment suitable for digital forensics education, research, and training that is used around the world.

**Clay Shields** is associate professor in the Computer Science Department at Georgetown University, and is Director of the Georgetown Institute for Information Assurance. Prior to arriving at Georgetown, he was an assistant professor at Purdue University, where he held his first academic position after earning his PhD from the University of California Santa Cruz. Before graduate school, Clay was an infantry officer with the 101st Airborne Division, and earned his undergraduate degree in electrical engineering from the University of Virginia. His research efforts focus on computer forensics and network security, with the goal of being able to hold network attackers accountable for their actions.

### 2.3.10