

21st IEEE Real Time Conference - Colonial Williamsburg



Saturday 9 June 2018 - Friday 15 June 2018

Woodlands Conference Center

Conference Topics

Emerging Technologies

Hardware, software, tools, and techniques

New Standards

Standard such as ACTA/ μ TCA

Data Acquisition

Readout data paths and system architectures as well as conceptual design for future instruments (machines and detectors)

Real Time Safety and Security

For small and large instruments

Upgrades

Improvement or expansion of existing large and small systems.

Feedback on Experiences

A discussion of development or implementation of a system with a focus on the unexpected problems and lessons learned along the way.

Control, Monitoring, Test and Real Time Diagnostics Systems

For small and large instruments.

Trigger Systems

As applied to the physical sciences.

Real Time System Architectures and Intelligent Signal Processing

Includes system architectures dealing with realtime data acquisition, extraction, compression, intelligent signal processing and storage applied to the physical sciences.

Fast Data Transfer Links and Networks

Includes every data transfer protocol from local data transfer up to global fast networks with their associated hardware (routers, switches, etc.)

Front End Electronics and Fast Digitizers

Ultra-fast ADCs, TDCs and Switched Capacitor Arrays in the GHz range and their applications.

Processing Farms

Processing farms for high level trigger and online selection.

Real Time Simulation

Simulation of real time DAQ