

Session Program

9-15 Jun 2018



21st IEEE Real Time Conference - Colonial Williamsburg

Poster 1

Woodlands Conference Center
159 Visitor Center Dr, Williamsburg, VA 23185

Tuesday 12 June

14:40

Poster 1

Poster Session | **Location:** Woodlands Conference Center, 159 Visitor Center Dr, Williamsburg, VA 23185 | **Convener:** Martin Grossmann

I2C management based on IPbus

Speaker

Mr Hongwei Yu

High-speed RF Switch Electronics for picking up of Electron-Positron Beam Bunches

Speaker

Liujiang Yan

High-power Piezoelectric Tuner Driver for Lorentz Force Compensation

Speaker

Dr Dariusz Makowski

High loaded quality factor superconducting cavities accelerating field parameters regulation during continuous wave operation

Speaker

Wojciech Cichalewski

The operational and control software of Multi-channel Antarctic Solar Telescope

Speaker

Mr Yi Feng

Fixed latency fiber communication for JLAB's Hall B RICH detector

Speaker

Mr Cody Dickover

Progress on the Electromagnetic Calorimeter Trigger Simulation at the Belle II Experiment

Speaker

Insoo Lee

First large-scale real-time drift compensation for Low-Level-RF-stations at the European XFEL

Speaker

Krzysztof Czuba

Radiation-Tolerant, High-speed Serial Link Design with SRAM-based FPGAs

Speaker

Sabrina Perrella

FPGA acceleration of Model Predictive Control for ITER Plasma current and shape control

Speaker

Dr Samo Gerksic

Real-Time Betatron Tune Correction with the Precise Measurement of Magnet Current

Speaker

Yoshinori Kurimoto

FPGA IMPLEMENTATION OF RDMA-BASED DATA ACQUISITION SYSTEM OVER 100 GBE

Speaker

Wassim Mansour

Real time data analysis with the ATLAS trigger at the LHC in Run-2

Speaker

Pierre-Hugues Beauchemin

FLIT-level Infiniband network simulations of the DAQ system of the LHCb experiment for Run-3

Speaker

Flavio Pisani

Real-time Data Acquisition and Processing System for MHz Repetition Rate Image Sensors

Speaker

Mr Aleksander Mielczarek

Environmental Monitoring for Belle II

Speaker

Seokhee Park

Real-time data compression for data acquisition systems applied to the ITER Radial Neutron Camera

Speakers

Mr Bruno Santos, Dr Nuno Cruz

ECAL DAQ system: electronics auto-recovery and monitoring

Speaker

Prasanna Kumar Siddireddy

Scalable Self-Adaptive Synchronous Triggering System in Superconducting Quantum Computing

Speaker

Dr Jin Lin

Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC

Speaker

ATLAS LAr Calorimeter Group

Scanning Test System of p/sFEB for the ATLAS Phase-I sTGC Trigger Upgrade

Speaker

Ms Xinxin Wang

Single photon source driver designed in ASIC

Speaker
Mr Bo Feng

Development of Slow Control Package for the Calorimeter Trigger System at the Belle II Experiment

Speaker
Cheolhun Kim

Study of Full Parallel RS(31,27) Encoder for a 3.2 Gbps Serial Transmitter in 0.18 um CMOS Technology

Speaker
Guangyu Zhang

Development and Characterization of a 3.2 Gb/s Serial Link Transmitter for CMOS Image Sensors Data Transmission in Subatomic Physics Experiment

Speaker
Dr Quan Sun

Study of Retina Algorithm on FPGA for Fast Tracking

Speakers
yifan yang, Wendi Deng

Design of remote control software of near infrared Sky Brightness Monitor in Antarctica

Speaker
Mr Yi Feng

Survey and Test Environment for ITER EPP#12 Electrical Components

Speaker
Dr Xiaoyang Sun

Design of Voltage Pulse Control Module for Free Space Measurement-Device-Independent Quantum Key Distribution

Speaker
Ms Sijie Zhang

System integration and initial performance of B2link in Belle II experiment

Speakers
Prof. Zhen-An Liu, Jingzhou Zhao

Data analysis to evaluate the CPPF system in CMS trigger phase I upgrade

Speaker
Prof. Zhen-An Liu

Technique of active phase stabilization for the interferometer with 128 actively selectable paths

Speaker
Yu Xu

Control and Readout Software in Superconducting Quantum Computing

Speaker
Dr Lin Jin

The Design and Testing of the Address in Real Time Data Driver Card for the Micromegas Detector of the ATLAS New Small Wheel Upgrade

Speaker

Dr Lin Yao

Clock Distribution and Readout Architecture for the ATLAS Tile Calorimeter at the HL-LHC

Speaker

Fernando Carrio Argos

The Electronics Design of Error Field Feedback Control System in KTX

Speaker

Xu Tianbo

Cascading Sensor Network Clock Synchronization Scheme

Speaker

Mr Meng ZHOU

The Phase-1 Upgrade for the Level-1 Muon Barrel Trigger of the ATLAS Experiment at LHC

Speaker

Vincenzo Izzo

Bonds for detection of very inclined "old" shower due to anti-aliasing filter in the Pierre Auger surface detector data acquisition system

Speaker

Prof. Zbigniew Szadkowski

The Phase-I Trigger Readout Electronics Upgrade of the ATLAS Liquid Argon Calorimeters

Speaker

ATLAS LAr Calorimeter group

Application of PROFINET IO in Neutron Scattering Instruments

Speaker

Harald Kleines

The Proton Beam Realtime Monitor System in CSNS

Speaker

Dr Jian ZHUANG

Application of FPGA Acceleration in ADC Performance Calibration

Speaker

Mr Guangyuan yuan

The application of precision time protocol on EAST timing system

Speaker

Dr Zuchao Zhang

A true real-time success story: the case of collecting beauty-ful data at the LHCb experiment.

Speaker

Federico Alessio

The design and performance of the ATLAS Inner Detector trigger in high pileup collisions at 13 TeV at the Large Hadron Collider

Speaker

Pierre-Hugues Beauchemin

A readout method based on 10 gigabit Ethernet for silicon pixel detector

Speaker

Dr Hangxu Li

The development of a data acquisition system based on FPGA

Speaker

Mr ZHE NING

A programmable clock generator for automatic Quality Assurance of LOCx2

Speaker

Mr Yi Feng

A new high speed, Ultrascale+ based, board for the ATLAS jet calorimeter trigger system

Speaker

Johannes Frederic Damp

The uTCA Fast Control board for generic control and data acquisition applications for HEP experiments

Speaker

Dr Jie Zhang

A Time Stretch Supply Method to Reduce the Power Line Loss

Speaker

Dr Jie WU

Three - phase motor state monitoring and fault diagnosis system based on LabVIEW

Speaker

Shaoqing Liu

A Control System of New Magnet Power Converter for J-PARC Main Ring upgrade

Speaker

Tetsushi Shimogawa

Ultra-precision DC source for Superconducting Quantum Computing

Speaker

Dr Jin Lin

Initial performance of Belle II High Level Trigger and Back End Processing in the Beam Commissioning

Speaker

Ryosuke ITOH

Upgrade of data acquisition and control system for microwave reflectometry on Experimental Advanced Superconducting Tokamak

Speaker

Fei Wen

Precision modeling and readout of germanium detector waveforms for MCMC machine learning

Speaker

Samuel J. Meijer

Upgrade of the Analog Integrator for EAST Device

Speaker

Yong Wang

LHCb full-detector real-time alignment and calibration: latest developments and perspectives

Speaker

Dorothea Vom Bruch

Using Adjacent Data Retransmission to Improve the Transmission Efficiency of Multi-hop Relay Networks

Speaker

Dr Xuesong LIU

Phase drift compensating RF link for femtosecond synchronization of E-XFEL

Speaker

Dominik Sikora

Longitudinal Mode-by-Mode Feedback System for The J-PARC Main Ring

Speaker

Yasuyuki Sugiyama

VIVADO High Level Synthesis in CLAS12 Trigger System Design

Speaker

Dr Sergey Boyarinov

Overview and performance of the ATLAS Level-1 Topological Trigger

Speaker

Johannes Frederic Damp

Web-based Real Time Monitoring with HTML5

Speaker

Stefan Ritt

Localised response retrieval from Hamamatsu H9500 for a coded-aperture dual-particle imaging system based on an organic pixelated plastic scintillator (EJ-299-34)

Speaker

Dr Kelum Gamage

Real-time non-intrusive depth estimation of buried radioactive wastes based on approximate three-dimensional relative attenuation model

Speaker

Kelum Gamage

OpenCL implementation of an adaptive disruption predictor based on a probabilistic Venn classifier

Speaker

Mr Enrique Bernal

A PXI-based, Multi-channel Ultra-fast Data Acquisition System for Transient Pulsed Signal

Speaker

Dr Yafei Du

A GENERIC DAQ FRAMEWORK FOR HIGH PERFORMANCE 2D XRAY DETECTORS

Speaker

Wassim Mansour

Back-end Electronics based on an Asymmetric Network for Low Background and Medium Scale Physics Experiments

Speaker

Denis Calvet

16:10