20th Real Time Conference

Tuesday, 7 June 2016

<u>Poster session 1</u> **- Centro Congressi (15:00 - 16:30)**

[id] title	presenter	board
[229] Evaluation of 100 Gb/s LAN networks for the LHCb DAQ upgrade	VONEKI, Balazs VALAT, Sebastien	
[69] Fabrication of Fiber Optics Spectrometer using SiPM for Radiation Waste Measurement	Prof. JOO, Koansik	
[157] Implementing a ReboT server on a Microblaze.	VARGHESE, Geogin	
[71] Charged particle track reconstruction in CMS using fast algorithms implemented in hardware: an overview of the proposed implementations to be used for the HL-LHC and the current efforts to demonstrate their operation	HAHN, Kristian	
[54] Control system optimization techniques for real-time applications in fusion plasmas: the RFX-mod experience	Mr PIGATTO, Leonardo	
[100] Software tests and simulations for realtime applications based on virtual time	VARGHESE, Geogin SHEHZAD, Nadeem	
[184] The online event selection architecture of the CBM experiment	DE CUVELAND, Jan	
[248] White Rabbit based sub-nsec time synchronization, time stamping and triggering in distributed large scale astroparticle physics experiments	BRÜCKNER, Martin	
[241] Feasibility of software-based real-time calibration of multi-gigabit PET data	Mr FREESE, David	
[11] An Extensible Induced Position Encoding Readout Method for Micro-pattern Gas Detectors	Mr YUAN, Guangyuan Mr MA, Siyuan	
[95] Design and test of a GBTx based board for the upgrade of the ALICE TOF readout electronics	FALCHIERI, Davide	
[129] Upgrade Of The Central Logic Board For The Phase-2 Of The KM3NeT Neutrino Telescope.	CALVO, David	
[214] Benchmarking message queue libraries and network technologies to transport large data volume in the ALICE O2 system	WEGRZYNEK, Adam Tadeusz	
[24] The Network Monitoring System based on Cacti for EAST	Ms LI, Chunchun Dr WANG, Feng Dr WANG, Ping Dr WANG, Yong Prof. JI, Zhenshan Dr ZHANG, Zuchao	
[61] High-speed continuous DAQ system for reading out the ALICE SAMPA ASIC	Mr VELURE, Arild Dr TAMBAVE, Ganesh J.	
[219] Readout electronics and data acquisition for gaseous tracking detectors	Dr KORCYL, Grzegorz	
[232] NaNet: FPGA-based Network Interface Cards Implementing Real-time Data Transport for HEP Experiments	MARTINELLI, Michele	
[60] Development of ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC	CHEN, Kai	

[119] DCT trigger in a high-resolution test platform for a detection of very inclined showers in the Pierre Auger surface detectors	SZADKOWSKI, Zbigniew
[137] MARTe real-time acquisition system of a Two-Color Interferometer for electron density measurements on FTU (Frascati tokamak upgrade).	Mr GOSPODARCZYK, Mateusz
[175] A Hybrid Analog-digital Integrator for EAST Device	Dr WANG, Yong
[166] The Associative Memory System Infrastructure of the ATLAS Fast Tracker	MAZNAS, Ioannis
[114] A High Frame Rate Test System for The HEPS-BPIX based on NI-sbRIO Board	ZHANG, Jie GU, Jingzi
[84] Software Integrity Analysis Applied to IRIO EPICS Device Support Based On FPGA Real-Time DAQ Systems	Dr SANZ, Diego
[122] Beam Test Performance of the Prototype Trigger-less Data Acquisition for the PANDA Experiment	KÜHN, Wolfgang
[125] Design and development of a real-time readout electronics system to retrieve data from a square multi-anode photomultiplier tube for neutron gamma pulse shape discrimination	Mr CIESLAK, Michal
[192] Particle identification on an FPGA accelerated compute platform for the LHCb Upgrade.	FAERBER, Christian
[40] Implementation of ITER Fast Plant Interlock System using FPGAs with cRIO	RUIZ, Mariano
[254] Production and Testing of the LO and CLK Generation Module Built in MicroTCA.4 Form Factor	ROHLEV, Tony
[262] Fast and efficient algorithms for computational electromagnetics on GPU's architecture	MACEINA, Tautvydas
[72] Emulation of a prototype FPGA track finder for the CMS Phase-2 upgrade with the CIDAF emulation framework	CALLIGARIS, Luigi
[74] Field Waveform Digitizer for BaF2 Detector Array at CSNS-WNS	Mr WANG, Qi
[257] FPGA-based Image Analyser for Calibration of Stereo Vision Rigs	MAKOWSKI, Dariusz
[46] Brain Emulation for Image Processing	LUCIANO, Pierluigi
[4] A hardware implementation of the Levinson routine in a radio detector of cosmic rays to improve a suppression of the non-stationary RFI	SZADKOWSKI, Zbigniew
[135] Modular Software for MicroTCA.4 Based Control Applications	SHEHZAD, Nadeem
[212] Real Time Adaptive Treatment Planning for Proton Therapy Radiation Patients	BELTRAN, Chris
[155] Timing and Readout Control in the LHCb Upgraded Readout System	CAPLAN, Cairo
[150] FPGA online tracking algorithm for the PANDA straw tube tracker	Dr LIANG, Yutie
[132] Integrating real time control applications into different control systems	SHEHZAD, Nadeem
[48] A Time-to-Digital Converter Based on a Digitally Controlled Oscillator	CASU, Luigi
[90] A new electronic board to drive the Laser calibration system of the ATLAS hadron calorimeter	GRIS, Philippe
[176] Readout electronics for Belle II imaging Time of Propagation detector	Dr KOTCHETKOV, Dmitri
[31] TaskRouter: A newly desinged online data processing framework	Mr GU, Minhao
[215] Real-Time Tomographic Reconstructions in MARTe with GPU Computation	Mr MACEINA, Tautvydas
[213] Design of a Compact Hough Transform for a new L1 Trigger Primitives Generator for the upgrade of the CMS Drift Tubes muon detector at the HL-LHC	POZZOBON, Nicola

[210] Design and evaluation of a FPGA online feature extraction data pre-processing stage for the CBM-TRD experiment	GARCIA CHAVEZ, Cruz De Jesus	
[134] Multiple Fast Controller Synchronization for ITER Control System Model	Mr PROKOPAS, Martynas	
[27] Development of front-end readout electronics for CsI (Tl) gamma detection array at ETF of CSR	WANG, Xinzhe	
[21] Adaptive IIR-notch filter for RFI suppression in a radio detection of cosmic rays	SZADKOWSKI, Zbigniew	
[23] Design of Adaptive and Fast Readout System Based on Wire Scanner	Mr SU, hong	
[28] The time synchronization of CSNS neutron Instrument	Mr YI, Liang	
[94] A Digital On-line Implementation of a Pulse-Shape Analysis Algorithm for Neutron-gamma Discrimination in the NEDA Detector	EGEA CANET, Francisco Javier	
[121] Automated Testing of MicroTCA.4 Modules	Dr MAKOWSKI, Dariusz	
[123] A coprocessor for the Fast Tracker Simulation	GENTSOS, Christos	
[267] Automation and Control of a plasma experiment using EPICS	Mr LOURENÇO, Pedro	
[265] HotLink receiver on CompactRIO for the ITER Electron Cyclotron Control System	Mr FORTUNATO, João	
[128] Real-time plasma electron density feedback control system based on FPGA on J-TEXT	Dr ZHENG, Wei	
[57] Mordicus-dhsm: a Distributed State-Machine Framework for DAQ	CHATEAU, Frederic	
[53] A Calculation Software Based on Pipe-and-Filter Architecture for the 4πβ-γ Digital Coincidence Counting Equipment	DING, Zhiguo	
[178] DEVELOPMENT, IMPLEMENTATION AND COMMISSIONING OF DATA ACQUISITION & CONTROL SYSTEM FOR TWIN SOURCE	Mr YADAV, ratnakar kumar	
[191] Hardware-Based Light Weight TCP/IP for 10 Gigabit Ethernet	Dr ZHANG, Jie	
[81] Data Acquisition and Protection System for a Multi-MHz Neutron Detector	DROCHNER, Matthias	
[85] TAWARA_RTM: A complete platform for a real time monitoring of contamination events of drinking water	Dr MORETTO, Sandra	
[7] Design of the Readout Electronics Prototype for LHAASO WCDA	Mr MA, Cong	
[109] Signal Processing Scheme for a Low Cost LiF:ZnS(Ag) Neutron Detector with Silicon Photomultiplier	Mr PRITCHARD, Kevin	
[106] Concentrator for the Readout of the PANDA Micro Vertex Detector based on MicroTCA	Mr KLEINES, Harald	
[104] Exploring RapidIO technology within a DAQ system event building network	BAYMANI, Simaolhoda	
[39] FPGA Implementation of Toeplitz Hashing Extractor for Real Time Post-processing of Raw Random Numbers	Mr ZHANG, Xiaoguang	
[38] The Coil Control Module of a Feedback System of KTX in China	Mr XU, Tianbo	
[246] Development of Integrated Response Time Evaluation Methodology for the Plant Protection System	Dr LEE, CHANG JAE	
[62] New LLRF control system at LNL	Dr PEDRETTI, Davide Dr PAVINATO, Stefano	
[63] Assessment of General Purpose GPU systems in real-time control	MACEINA, Tautvydas Jeronimas	
[66] An I/O Controller for Real Time Distributed Tasks in Particle Accelerators	Dr PEDRETTI, Davide Dr PAVINATO, Stefano	

[186] Framework Upgrade of The Detector Control System for JUNO	YE, Mei	
[187] Fast Intra Bunch Train Charge Feedback for FELs based on Photo Injector Laser Pulse Modulation	KOZAK, Tomasz	
[250] Superconducting cavities cryo-module control challenges and LLRF system adaptation in case of long pulse operation mode.	Dr WOJCIECH, Cichalewski	
[202] Realising real-time capabilities of an embedded control system for fast-neutron scintillation detectors	ASTROMSKAS, Vytautas	
[92] MicroTCA.4 based RF and Laser Cavities Requlation Including Piezo Controls	Mr BUTKOWSKI, Lukasz	
[10] An α/γ Discrimination Method for BaF2 Detector by FPGA-based Linear Neural Network	Mr YANG, Chenfei	
[12] High Speed Ethernet Application for the Trigger Electronics of the New Small Wheel	HU, Kun	
[271] NSTXU RedHawk Linux Realtime Security Measures and Their Effect on Determinism	ERICKSON, Keith	
[18] Fuzzy-PID based heating control system	Dr WANG, Jian	
[188] Development of data acquisition and control system (DACS) for long pulse operations of Indian test facility of ITER Diagnostics Neutral Beam .	Mr TYAGI, Himanshu	
[237] Design of a concentrator for CMS trigger upgrade	Mr WANG, Chunjie Prof. LIU, Zhen-An	
[86] Enabling real time reconstruction for high resolution SPECT systems	BERNARD, Mélanie	
[5] Design and Testing of the Bunch-by-Bunch Beam Transverse Feedback Electronics for SSRF	Mr LIU, Jinxin	
[209] The Gas Injection Control and Diagnostic System for the ESTHER shock Tube	CARVALHO, Bernardo	
[76] Online calibration of the TRB3 FPGA TDC with DABC software	ADAMCZEWSKI-MUSCH, Joern	
[270] Performance evaluation of mTCA.4 High speed ADC card for direct sampling of RF signals in linear accelerator systems	CZUBA, Krzysztof	
[126] Real-time resonant magnetic perturbations feedback control system for tearing mode suppression on J-TEXT	Mr HU, Feiran	