

24th International Conference on Computing in High Energy & Nuclear Physics

Monday, November 4, 2019

Track 1 – Online and Real-time Computing: Data acquisition (DAQ) - Riverbank R5 (11:00 AM - 12:30 PM)

-Conveners: Chunhua Li

time	[id] title	presenter
11:00	P116 A novel centralized slow control and board management solution for ATCA blades based on the Zynq Ultrascale+ System-on-Chip	SANDER, Oliver
11:15	P118 DAQling: an open source data acquisition framework	GAMBERINI, Enrico
11:30	P116 DUNE DAQ R&D integration in ProtoDUNE Single-Phase at CERN	SIPOS, Roland
11:45	P111 FELIX: commissioning the new detector interface for the ATLAS trigger and readout system	PANDURO VAZQUEZ, William
12:00	P115 Integration of custom DAQ Electronics in a SCADA Framework	GRANADO CARDOSO, Luis
12:15	P110 Zero-deadtime processing in beta spectroscopy for measurement of the non-zero neutrino mass	LAROQUE, Benjamin

Track 1 – Online and Real-time Computing: Monitoring and control systems - Riverbank R5 (2:00 PM - 3:30 PM)

-Conveners: Chunhua Li

time	[id] title	presenter
2:00 P	M192 AliECS: a New Experiment Control System for the ALICE Experiment	MRNJAVAC, Teo
2:15 P	M17 DAQExpert - the service to increase CMS data-taking efficiency	GLADKI, Maciej Szymon
2:30 P	M117 ATLAS Operational Monitoring Data Archival and Visualization	SOLOVIEV, Igor
2:45 P	M12 Data quality monitors of vertex detectors at the start of the Belle II experiment	KODYS, Peter KODYS, Peter
3:00 P	M137 Scalable monitoring data processing for the LHCb software trigger	PETRUCCI, Stefano
3:15 P	M16 The ALICE data quality control system	KONOPKA, Piotr

Tuesday, November 5, 2019

Track 1 – Online and Real-time Computing: Trigger farms and networks - Riverbank R5 (11:00 AM - 12:30 PM)

-Conveners: Steven Schramm

time	[id] title	presenter
11:00	P105 [A105] Assessment of the ALICE O2 readout servers	COSTA, Filippo
11:15	P106 [A106] CMS Event-Builder Performance on State-of-the-Art Hardware	MOMMSEN, Remi
11:30	P108 [A108] Results from the CBM mini-FLES Online Computing Cluster Demonstrator	DE CUVELAND, Jan
11:45	P107 [A107] Performance of Belle II High Level Trigger in the First Physics Run	Prof. ITOH, Ryosuke
12:00	P108 [A108] Design of the data distribution network for the ALICE Online-Offline (O2) facility	NESKOVIC, Gvozden
12:15	P103 [A103] Network simulation of a 40 MHz event building system for the LHCb experiment	PISANI, Flavio

Track 1 – Online and Real-time Computing: Real-time analysis - Riverbank R5 (2:00 PM - 3:30 PM)

-Conveners: Steven Schramm

time	[id] title	presenter
2:00	F146 [M146] 40 MHz Level-1 Trigger Scouting for CMS	SAKULIN, Hannes
2:15	F135 [M135] An express data production chain in the STAR experiment	KISEL, Ivan
2:30	F125 [M125] Trigger level analysis technique in ATLAS for Run 2 and beyond	BOVEIA, Antonio
2:45	F191 [M191] Ingest pipeline for ASKAP	Dr VORONKOV, Maxim
3:00	F149 [M149] Low Latency, Online Processing of the High-Bandwidth Bunch-by-Bunch Observation Data from the Transverse Damper Systems of the LHC	SODEREN, Martin
3:15	F100 [M100] JANA2 Framework for event based and triggerless data processing	LAWRENCE, David

Track 1 – Online and Real-time Computing: Detectors, performance, and analysis - Riverbank R5 (4:30 PM - 6:00 PM)

-Conveners: Yu Nakahama Higuchi

time	[id] title	presenter
4:30	F119 [M119] Strategies for detecting long-lived particles at LHC experiments	Mr JASHAL, Brij Kishor
4:45	F140 [M140] Recording and reconstructing 10 billion unbiased B meson decays in CMS to probe lepton flavour universality	BAINBRIDGE, Robert John
5:00	F105 [M105] The CMS electromagnetic calorimeter workflow	ROVELLI, Chiara Ilaria
5:15	F191 [M191] Time measurement with the SND electromagnetic calorimeter	MELNIKOVA, Natalya
5:30	F160 [M160] Track reconstruction with PANDA at FAIR	PAPENBROCK, Michael
5:45	F118 [M118] The ATLAS Muon, Electron and Photon Trigger Performance	SAFARZADEH SAMANI, Batool

Thursday, November 7, 2019

Track 1 – Online and Real-time Computing: Hardware acceleration and hardware machine learning - Riverbank R5 (11:00 AM - 12:30 PM)

-Conveners: Jennifer Ngadiuba

time	[id] title	presenter
11:00	A10 [A10] Heterogeneous online reconstruction at CMS	Dr BOCCI, Andrea
11:15	A14 [A14] Level-1 track finding with an all-FPGA system at CMS for the HL-LHC	JAMES, Thomas Owen
11:30	A12 [A12] Fast and resource-efficient Deep NN on FPGAs for the Phase-II L0 Muon Barrel Trigger of the ATLAS Experiment	GIAGU, Stefano
11:45	A11 [A11] Fast inference using FPGAs for DUNE data reconstruction	RODRIGUEZ ALONSO, Manuel Jesus
12:00	P12 [P12] Highly Performant, Deep Neural Networks with sub-microsecond latency on FPGAs for Trigger Applications	SCHMITT, Christian
12:15	P16 [P16] hls4ml: deploying deep learning on FPGAs for L1 trigger and Data Acquisition	LONCAR, Vladimir

Track 1 – Online and Real-time Computing: Future upgrades - Riverbank R5 (2:00 PM - 3:30 PM)

-Conveners: Jennifer Ngadiuba

time	[id] title	presenter
2:00	M34 [M34] Mass storage interface LTSM for FAIR Phase 0 data acquisition	Dr ADAMCZEWSKI-MUSCH, Joern
2:15	M14 [M14] ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC	KOPELIANSKY, Revital
2:30	M98 [M98] L0TP+: the Upgrade of the NA62 Level-0 Trigger Processor	VICINI, Piero
2:45	M13 [M13] New Jet Feature Extraction and Topological Processor modules for ATLAS Phase-I Upgrade: from design to commissioning	KAHRA, Christian
3:00	M7 [M7] The CMS Trigger upgrade for the HL-LHC	TOMEI FERNANDEZ, Thiago
3:15	M100 [M100] The CMS Data Acquisition System for the Phase-2 Upgrade	DOBSON, Marc