ACAT 2024

Monday, 11 March 2024

Poster session with coffee break (16:10 - 16:50)

time	[id] title	presenter
16:15	[66] Generative Modeling for Fast Shower Simulation	YEO, Kyongmin
16:15	[61] Enabling Computing Resources to Support Grid Jobs and Cluster Jobs Simultaneously	WANG, lei
16:15	[54] The Workflow Management System for Data Processing towards Photon Sources	WANG, lei
16:15	[53] Deployment of ATLAS Calorimeter Fast Simulation Training Through Container Technology	BEIRER, Joshua Falco BEIRER, Joshua Falco
16:15	[49] The ATLAS Web Run Control system	KOULOURIS, Aimilianos
16:15	[42] Energy consumption characterization of Subnuclear Physics computing workloads	LORUSSO, Marco LORUSSO, Marco LORUSSO, Marco
16:15	[41] Offline data processing in the First JUNO Data Challenge	LIN, Tao
16:15	[35] Boosting CPU Efficiency in ATLAS Inner Detector Reconstruction with Track Overlay	TSAI, Fang-Ying
16:15	[31] Describe Data to get Science-Data-Ready Tooling: Awkward as a Target for Kaitai Struct YAML	GOYAL, Manasvi
16:15	[29] AtlFast3: Fast Simulation in ATLAS for LHC Run 3 and beyond	BEIRER, Joshua Falco
16:15	[28] FATRAS integration for ATLAS fast simulation at HL-LHC	WANG, Rui
16:15	[27] Athena MPI: A Multi-Node Version of ATLAS's Athena Framework, Using Message Passing Interface	STANISLAUS, Beojan
16:15	[23] interTwin - an Interdisciplinary Digital Twin Engine for Science	ZOECHBAUER, Alexander
16:15	[14] Interface to Unity for High Energy Physics detector visualization	SONG, Tianzi
16:15	[12] Web based HXMT data analysis platform	WANG, lei
16:15	[10] Visualizing BESIII Events with Unity	LI, Jingshu
16:15	[9] Introduction of dynamic job matching optimization for Grid middleware using Site Sonar infrastructure monitoring	WIJETHUNGA, Kalana

Wednesday, 13 March 2024

Poster session with coffee break (16:10 - 16:50)

time	[id] title	presenter
16:15	[101] Ahead-of-time (AOT) compilation of Tensorflow models for deployment	WIEDERSPAN, Bogdan
16:15	[13] Supervised job preemption methodology for controlled memory consumption of jobs running in the ALICE Grid	WIJETHUNGA, Kalana
16:15	[118] HPC, HTC and Cloud: converging toward a seamless computing federation with interLink	TEDESCHI, Tommaso
16:15	[114] RTDP: Streaming Readout Real-Time Development and Testing Platform	GYURJYAN, Vardan Dr GYURJYAN, Vardan
16:15	[113] Hydra: Computer Vision for Data Quality Monitoring	ROY, Ayan
16:15	[112] Scalable GNN Training for Track Finding	LAZAR, Alina
16:15	[108] Awkward Family: expanding functionality through interrelated Python packages	PIVARSKI, Jim
16:15	[107] Optimal XCache deployment for the CMS experiment in Spain	FLIX MOLINA, Jose
16:15	[106] Paving the Way for HPC: An XRootD-Based Approach for Efficiency and Workflow Optimizations for HEP Jobs on HPC Centers	HOFSAESS, Robin
16:15	[105] Optimizing Resource Provisioning Across Diverse Computing Facilities with Virtual Kubelet Integration	TSAI, Jeng-Yuan
16:15	[102] The Good, The Bad, and the Ugly: A Tale of Physics, Software, and ML	GOLUB, Alexandra
16:15	[98] Lamarr: implementing a flash-simulation paradigm at LHCb	MAZUREK, Michal MAZUREK, Michał
16:15	[93] Retrieval Augmented Generation for Particle Physics: A Case Study with the Snowmass White Papers and Reports	WATTS, Gordon
16:15	[84] ServiceX, the novel data delivery system, for physics analysis	CHOI, Kyungeon
16:15	[72] LHC beam monitoring via real-time hit reconstruction in the LHCb VELO pixel detector	PASSARO, Daniele
16:15	[71] Declarative paradigms for analysis description and implementation	VASELLI, Francesco
16:15	[69] Quasi interactive analysis of High Energy Physics big data with high throughput	TEDESCHI, Tommaso
16:15	[68] Preservation of the Direct Photons and Neutral Pions Analysis in the PHENIX Experiment at RHIC	DAVID, Gabor POTEKHIN, Maxim
16:15	[67] AdaptivePerf: a portable, low-overhead, and comprehensive code profiler for single- and multi-threaded applications	GRACZYK, Maksymilian

Thursday, 14 March 2024

Poster session with coffee break (16:10 - 16:50)

time	[id] title	presenter
16:10	[73] Is Quantum Computing energy efficient? An Investigation on a quantum annealer.	MINARINI, Francesco Dr BIANCO, Gianluca GASPERINI, Simone
16:10	[81] Implementation of zero trust security strategy in HEPS scientific computing system	HU, Qingbao
16:10	[100] Using Legacy ATLAS C++ Calibration Tools in Modern Columnar Analysis Environments	VIGL, Matthias
16:10	[82] Design and Implementation of a Container-based Public Service Cloud Platform for HEPS	WANG, lei
16:10	[47] The performance profiling of ptycho-W1Net AI algorithm on DCU and HUAWEI NPU 910	Dr WANG, Lei
16:10	[189] Scaling the SciDAC QuantOM Workflow	LERSCH, Daniel
16:10	[187] Monitoring the OSDF - Open Science Data Federation	ANDRIJAUSKAS, Fabio
16:10	[183] AI-driven HPC Workflows Execution with Adaptivity and Asynchronicity in Mind	KILIC, Ozgur Ozan
16:10	[182] Study of columnar data analysis methods to complete an ATLAS analysis	TOST, Marc
16:10	[179] Acceleration of the ML based fast simulation in high energy physics	QIAN, Sitian
16:10	[174] Portable acceleration of CMS computing workflow with coprocessors as a service	FENG, Yongbin
16:10	[170] Celeritas: evaluating performance of HEP detector simulation on GPUs	ESSEIVA, Julien
16:10	[129] Performance of the Gaussino CaloChallenge-compatible infrastucture for ML-based fast simulation in the LHCb Experiment	MAZUREK, Michal
16:10	[127] columnflow: Fully automated analysis through flow of columns over arbitrary, distributed resources	WIEDERSPAN, Bogdan
16:10	[125] Porting and optimizing the performance of LArTPC Detector Simulations with C++ standard parallelism	WANG, Tianle
16:10	[124] A Microbenchmark Framework for Performance Evaluation of OpenMP Target Offloading	ATIF, Mohammad
16:10	[122] Easy columnar file conversions with "odapt"	BILODEAU, Zoë