

20th International Conference on Computing in High Energy and Nuclear Physics (CHEP2013)

Monday 14 October 2013

Software Engineering, Parallelism & Multi-Core: I - Effectenbeurszaal (13:30-14:59)

time	[id] title	presenter
13:30	[353] Monte Carlo Simulations of the IceCube Detector with GPUs	KOPPER, Claudio
13:53	[3] High Energy Electromagnetic Particle Transportation on the GPU	CANAL, Philippe
14:16	[422] Synergia-CUDA: GPU Accelerated Accelerator Modeling Package (video conference)	LU, Qiming
14:39	[428] The Telescope Array Fluorescence Detector Simulation on GPUs	Dr ABUZAYYAD, Tareq

Software Engineering, Parallelism & Multi-Core: II - Effectenbeurszaal (15:45-17:15)

time	[id] title	presenter
15:45	[41] A taxonomy of scientific software applications - HEP's place in the world	Dr ELMER, Peter
16:07	[461] Improving robustness and computational efficiency using modern C++ (video conference)	KOWALKOWSKI, Jim
16:29	[339] Systematic profiling to monitor and specify the software refactoring process of the LHCb experiment	LOHN, Stefan
16:50	[61] Parallelization of Common HEP patterns with PyPy (cancelled)	LAVRIJSEN, Wim

Software Engineering, Parallelism & Multi-Core: III - Effectenbeurszaal (17:25-18:10)

time	[id] title	presenter
17:25	[475] Semi-automatic SIMD-efficient data layouts for object-oriented programs	COSTANZA, Pascal
17:46	[453] Vectorizing the detector geometry to optimize particle transport	GHEATA, Andrei

Tuesday 15 October 2013

Software Engineering, Parallelism & Multi-Core: IV - Effectenbeurszaal (13:30-15:00)

time	[id] title	presenter
13:30	[303] Explorations of the viability of ARM and Intel Xeon Phi for Physics Processing	Dr ELMER, Peter
13:53	[244] Computing on Knights and Kepler Architectures	SCHIFANO, Sebastiano
14:16	[173] Parallel track reconstruction in CMS using the cellular automaton approach	FUNKE, Daniel
14:38	[67] GooFit: A massively-parallel fitting framework	ANDREASSEN, Rolf Edward

Software Engineering, Parallelism & Multi-Core: V - Effectenbeurszaal (15:45-17:15)

time	[id] title	presenter
15:45	[11] Evaluation of the flow-based programming (FBP) paradigm as an alternative to standard programming practices in physics data processing applications	GYURJYAN, Vardan
16:07	[224] Measurements of the LHCb software stack on the ARM architecture	NEUFELD, Niko
16:29	[174] Evaluating Predictive Models of Software Quality	Mr SALOMONI, Davide Dr RONCHIERI, Elisabetta Mr CANAPARO, Marco Mr CIASCHINI, Vincenzo
16:51	[175] Collaboration platform @CERN : Self-service for software development tools	HUSEJKO, Michal

Software Engineering, Parallelism & Multi-Core: VI - Effectenbeurszaal (17:25-18:10)

time	[id] title	presenter
17:25	[194] Using Cling/LLVM and C++11 for parametric function classes in ROOT	RADEMAKERS, Fons
17:47	[219] Speeding up HEP experiments' software with a library of fast and autovectorisable mathematical functions	PIPARO, Danilo

Thursday 17 October 2013

Software Engineering, Parallelism & Multi-Core: VII - Effectenbeurszaal (11:00-12:30)

time	[id] title	presenter
11:00	[212] Is the Intel Xeon Phi processor fit for HEP workloads?	NOWAK, Andrzej
11:22	[202] Preparing HEP Software for Concurrency	PIPARO, Danilo
11:44	[387] A well-separated pairs decomposition algorithm for kd-trees implemented on multi-core architectures	Prof. HOBSON, Peter Dr LOPES, raul
12:06	[476] The path toward HEP High Performance Computing	Dr CARMINATI, Federico

Software Engineering, Parallelism & Multi-Core: VIII - Effectenbeurszaal (13:30-15:00)

time	[id] title	presenter
13:30	[242] The ATLAS Data Management Software Engineering Process	LASSNIG, Mario
13:53	[278] ATLAS Offline Software Performance Monitoring and Optimization	MANDRYSCH, Rocco
14:16	[223] The Rise of the Build Infrastructure	Mr EULISSE, Giulio
14:38	[180] Experiences with moving to open source standards for building and packaging	Mr VAN DOK, Dennis