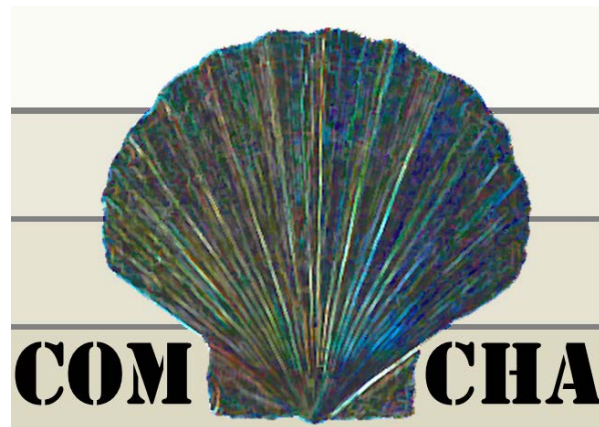


Computing Challenges (COMCHA) Meeting Wednesday 12th September 2018



Introduction

COMCHA collaboration:

Computing Challenges for the HL-LHC at Spain

A common effort among Spanish groups participating in LHC experiments to deal with the problem of particle reconstruction in high density environments during the High Luminosity era.

New computing models are explored, including software and hardware technologies. This collaboration should be under the HEP Software Foundation.

Working Group structure (dynamic: just add your favourite WG):

Physics Working groups:

WG1_{//} : TRACK [URL, USE, IFIC]

WG2_{//} : CALO [URL]

WG3_{//} : RICH [URL, USE]

WG4_{//} : MUONS [USC, IFCA]

Computing Working groups:

WG1_⊥ : Algorithms [URL, USE, IFIC]

WG2_⊥ : Architectures [URL, USE, IFIC, UB, USC]

WG3_⊥ : Machine Learning [URL, USE, IFIC, IFCA,
USC, Oviedo]

Introduction

- **News:**

- PI GRID meeting in Madrid, 22 Sep 2018

- **Connecting The Dots / Intelligent Trackers 2019**

- IFIC, Valencia 2-5th April 2019 (J.E. García Navarro, S. Martí)

- <https://indico.cern.ch/e/ctdwit2019>

- Next COMCHA meetings:

- **We. 10th October 15:00 2018 : Chair: Luca Fiorini (ATLAS, IFIC):**
Subject: Reconstruction algorithms

- We. 14th November 2018 (TBD)

- **COMCHA Face-to-face meeting:**

- Mo 29th October, CPAN, Salamanca, 18:00-20:00**


- [COMCHA twiki](#) page: link to meetings, info of interest, documentation...

- Subscription list: comcha@pegaso.ific.uv.es

Introduction

- **Today's agenda:**

Computing Challenges meeting (COMCHA)

 Wednesday 12 Sep 2018, 15:00 → 18:00 Europe/Madrid

15:00 → 15:10 **COMCHA meeting: GPUs, FPGAs and other accelerators**

Speaker: Arantza Oyanguren (IFIC-Valencia)

15:10 → 15:30 **Deep Neural Network Implementation in FPGAs**

Speakers: Jose Luls Ortiz (IFIC), Luca Fiorini (IFIC / U. Valencia)

15:30 → 15:50 **Ipanema- β : tools and examples for HEP analysis on GPU**

Speaker: diego martinez santos (cern)

15:50 → 16:00 **Introduction and activities at USE**

Speaker: Daniel Campora (CERN)

16:00 → 16:20 **Computing paths from HEP to innovation**

Speaker: Kiko Albiol (Contrato)

16:20 → 16:40 **HEP Software Foundation (HSF)**

Speaker: Graeme Stewart (CERN)

16:40 → 17:00 **Discussion**

Speaker: all

