Connecting The Dots 2023

Closing

Alexis Vallier (L2IT)
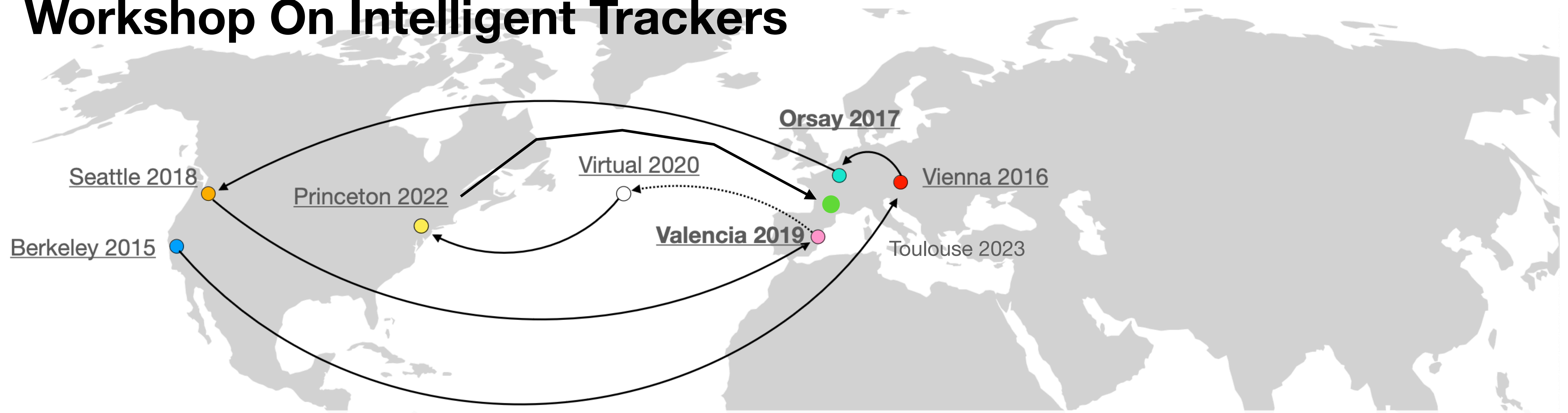**for the Oganizing Committees**

« O mon païs, ô Toulouse, ô Toulouse »

Claude Nougaro, « Toulouse » lyrics

Connecting The Dots
Workshop On Intelligent Trackers

- CTD/WIT established in 2016

- Workshop-style event:

  - No parallel sessions, keep time to have discussions

  - Again a good example this year

- Good mixture of R&D and progress achieved on Tracking, not only LHC!

Connecting the Dots
Next edition

- We invite submission proposals for **CTD/WIT 2024**

  - Please get in touch with ctd2023-loc@l2it.in2p3.fr

  - number of participants ~50-100

  - usually 3days program + eventually 1 day of WIT or Attache workshop (e.g. Real Time Tracking 2023, GNN 2022, TrackML 2018)

Strikes & Demonstration on Friday

A real french experience

- There will be strikes this Friday: perturbations expected for trains, buses & flights

  - If you're having a train on Friday check beforehand it is not cancelled, the detailed status train should be published today at 17:00

  - If you're taking a plane, check the status on the <u>airport web site</u>

  - Bus shuttle to airport has its <u>route diverted from 9:30</u>, stops not served

    - Stops not served: Jean Jaurès, Jeanne d'Arc, Compans-Caffarelli

    - On the diverted route, connexion with **B line** subway is possible at **Canal du Midi** stop.

Proceedings

- Contributions are optional, but we encourage everyone to write and submit a paper based on their contribution.

- Proceedings will be peer reviewed by CTD IAC committee and other experts, and then published online (zenodo).

- Submission deadline is **November 15, 2023**

- If you plan to submit a proceedings please also indicate that via [this form]() **by October 31** (to start getting organized)

Proceedings

- Page limits:

  - 8 pages if you had a 25+5 minute talk

  - 7 pages if you had a 20+2 minute talk

  - 6 pages if you had a 15+5 minute talk

  - 6 pages if you had a poster

- More instructions here: https://indico.cern.ch/event/1252748/page/31276-proceedings

Real time tracking Mini-workshop

Triggering events with tracks

- Have a safe trip home, or see you tomorrow at the mini-workshop !

- https://indico.cern.ch/event/1290426/overview

09:00	**Directions in Realtime Tracking : Everything, Everywhere, All at Once**	*Kristian Hahn*
	Auditorium, Le Village	09:00 - 09:30
	Level-1 Tracking at CMS for the HL-LHC	*Sara Fiorendi*
	Auditorium, Le Village	09:30 - 09:52
10:00	**Standalone track reconstruction and matching algorithms for the GPU-based High Level Trigger at LHCb**	*Louis Henry*
	Auditorium, Le Village	09:52 - 10:14
	Accelerated Large Graph Creation with CUDA: Empowering Graph Neural Networks in Particle Physics	*Nilotpal Kakati*
	Auditorium, Le Village	10:14 - 10:36
	FPGA-based architecture for a real-time track reconstruction in the LHCb Scintillating Fibre Tracker beyond Run 3	
	Michael J. Morello	
11:00	**Coffee**	
	Place du village, Le Village	11:00 - 11:30
	A real-time demonstrator of track reconstruction with FPGAs at LHCb	*Francesco Terzuoli*
	Auditorium, Le Village	11:30 - 11:52
12:00	**Trigger Level Tracking With Neural Networks on Heterogeneous Computing Systems**	*Alex Gekow*
	Auditorium, Le Village	11:52 - 12:14
	Track reconstruction for the ATLAS Phase-II High-Level Trigger using Graph Neural Networks on FPGAs	*Sachin Gupta*
	Auditorium, Le Village	12:14 - 12:36
	Studies on track finding algorithms based on machine learning with GPU and FPGA	*Francesco Armando Di Bello*
	Auditorium, Le Village	12:36 - 12:58
13:00	**Lunch**	
	Place du village, Le Village	13:00 - 14:00

Merci!