

Session Program

4-8 Nov 2019



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

Track 7 - Facilities, Clouds and Containers

Adelaide Convention Centre
Adelaide, Australia

Monday 4 November

11:00

Track 7 - Facilities, Clouds and Containers: Monitoring and benchmarking

Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Oksana Shadura

11:00-11:15

Machine Learning-based Anomaly Detection of Ganglia Monitoring data in HEP Data Center

Speakers

Ms Juan Chen, juan chen

11:15-11:30

Anomaly detection using Unsupervised Machine Learning for Grid computing site operation

Speaker

Tomoe Kishimoto

11:30-11:45

Using HEP experiment workflows for the benchmarking and accounting of computing resources

Speaker

Andrea Valassi

11:45-12:00

WLCG Networks: Update on Monitoring and Analytics

Speaker

Pedro Andrade

12:00-12:15

WLCG Dashboards with Unified Monitoring

Speaker

Pedro Andrade

12:15-12:30

Large Elasticsearch cluster management

Speaker

Pablo Saiz

12:30

14:00

Track 7 - Facilities, Clouds and Containers: Cloud computing

Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Christoph Wissing

14:00-14:15

The DODAS experience on EGI Federated Cloud

Speaker

Daniele Spiga

14:15-14:30

CloudScheduler V2: Distributed Cloud Computing in the 21st century

Speaker

Randall Sobie

14:30-14:45

Increasing interoperability for research clouds: CS3APIs for connecting sync&share storage, applications and science environments

Speaker

Hugo Gonzalez Labrador

14:45-15:00

Pre-Commercial Procurement: R&D as a Service for the European Open Science Cloud

Speaker

Marion Devouassoux

15:00-15:15

Dynamic integration of distributed, Cloud-based HPC and HTC resources using JSON Web Tokens and the INDIGO IAM Service

Speaker

Stefano Dal Pra

15:15-15:30

Characterizing network paths in and out of the Clouds

Speaker

Igor Sfiligoi

15:30

Tuesday 5 November

11:00

Track 7 - Facilities, Clouds and Containers: Trends and new Approaches
Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Oksana Shadura

11:00-11:15

Real-time HEP analysis with funcX, a high-performance platform for function as a service

Speaker

Dr Anna Elizabeth Woodard

11:15-11:30

Trends in computing technologies and markets

Speaker

Shigeki Misawa

11:30-11:45

Integrating Interactive Jupyter Notebooks at the SDCC

Speaker

Ofer Rind

11:45-12:00

The SIMPLE Framework for deploying containerized grid services

Speaker

Julia Andreeva

12:00-12:15

Towards a NoOps Model for WLCG

Speaker

Robert William Gardner Jr

12:15-12:30

The NOTED software tool-set enables improved exploitation of WAN bandwidth for Rucio data transfers via FTS

Speaker

Tony Cass

12:30

14:00

Track 7 - Facilities, Clouds and Containers: Infrastructure
Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Sang Un Ahn

14:00-14:15

WLCG Web Proxy Auto Discovery for Dynamically Created Web Proxies

Speaker

Oliver Gutsche

14:15-14:30

Designing a new infrastructure for ATLAS Online Web Services

Speaker

Diana Scannicchio

14:30-14:45

Construction of a New Data Center at BNL

Speaker

Shigeki Misawa

14:45-15:00 **Preparing CERN Tier-0 data centres for LHC Run3**

Speaker
Olof Barring

15:00-15:15

Computing Activities at the Spanish Tier-1 and Tier-2s for the ATLAS experiment towards the LHC Run3 and High Luminosity (HL-LHC) periods

Speaker
Santiago Gonzalez De La Hoz

15:15-15:30

Beyond HEP: Photon and accelerator science computing infrastructure at DESY

Speaker
Thomas Hartmann

15:30

16:30

Track 7 - Facilities, Clouds and Containers: Containers

Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Sang Un Ahn

16:30-16:45 **Using Kubernetes as an ATLAS computing site**

Speaker
Fernando Harald Barreiro Megino

16:45-17:00 **Deployment of containers on the diverse ATLAS infrastructure**

Speaker
Alessandra Forti

17:00-17:15

Science Box: Converging to Kubernetes containers in production for on-premise and hybrid clouds for CERNBox, SWAN, and EOS

Speaker
Enrico Bocchi

17:15-17:30 **Managing the CERN Batch System with Kubernetes**

Speaker
Luis Fernandez Alvarez

17:30-17:45

Abstracting container technologies and transfer mechanisms in the Scalable CyberInfrastructure for Artificial Intelligence and Likelihood Free Inference (SCAILFIN) project

Speaker
Kenyi Paolo Hurtado Anampa

17:45-18:00

Running ALICE Grid Jobs in Containers - A new approach to job execution for the next generation ALICE Grid framework

Speaker
Maksim Melnik Storetvedt

18:00

Thursday 7 November

11:00

Track 7 - Facilities, Clouds and Containers: Non-LHC experiments

Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Christoph Wissing

11:00-11:15 **Evolution of the LHAASO Distributed Computing System based Cloud**

Speaker

Dr Qiulan Huang

11:15-11:30 **VIRGO and Gravitational Waves computing in Europe**

Speaker

Dr Stefano Bagnasco

11:30-11:45 **online computing for new generation photon science experiments**

Speaker

Mr Martin Gasthuber

11:45-12:00

High-availability on-site deployment to heterogeneous architectures for Project 8 and ADMX

Speaker

Benjamin LaRoque

12:00-12:15 **IceCube Real-time Processing in AWS**

Speakers

Benedikt Riedel, Benedikt Riedel

12:15-12:30 **Designing a Federated Regional Centre for SKA Computing**

Speaker

Dr Richard Hughes-Jones

12:30

14:00

Track 7 - Facilities, Clouds and Containers: Network technologies

Session | **Location:** Adelaide Convention Centre, Riverbank R4 | **Conveners:** Oksana Shadura, Sang Un Ahn

14:00-14:15 **Readying CERN for connected device era**

Speaker

Rodrigo Sierra

14:15-14:30 **Unroutable LHCONE traffic**

Speaker

Mr Bruno Hoeft

14:30-14:45 **IPv6-only networking on WLCG**

Speaker

David Kelsey

14:45-15:00 **LHCb Online migration to ISC Kea - the modern DHCP server.**

15:30

Speaker
Hristo Umaru Mohamed

15:00-15:15 **Network Capabilities for the HL-LHC Era**

Speaker
Shawn Mc Kee

15:15-15:30 **Network in Belle II**

Speaker
Silvio Pardi

14:00

Track 7 - Facilities, Clouds and Containers: Opportunistic resources

Session | **Location:** Adelaide Convention Centre, Riverbank R7 | **Convener:** Christoph Wissing

14:00-14:15 **Lightweight dynamic integration of opportunistic resources**

Speaker
Max Fischer

14:15-14:30

External Resources: Clouds and HPCs for the expansion of the ATLAS production system at the Tokyo regional analysis center

Speaker
Michiru Kaneda

14:30-14:45

Effective Dynamic Integration and Utilization of Heterogenous Compute Resources

Speaker
Manuel Giffels

14:45-15:00 **Offsite Data Processing for the GlueX Experiment**

Speaker
David Lawrence

15:00-15:15

Running HTC and HPC applications opportunistically across private, academic and public clouds

Speaker
Dr Andrew Lahiff

15:15-15:30 **ATLAS Sim@P1 upgrades during long shutdown two**

Speaker
Frank Berghaus

15:30