

NorduGrid 2017

Tuesday 27 June 2017 - Friday 30 June 2017

Tromsø, Norway



Book of Abstracts

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Welcome to the Plenary Conference and introduction of local activities

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The NorduGrid Collaboration - Status and Plans

Author: Farid Ould-Saada¹

¹ *UiO*

Conference: Plenary Session 3 / 2

EISCAT-3D project

Author: John White¹

¹ *NeIC*

Conference: Plenary Session 4 / 3

Machine learning and anomaly detection

Author: James Catmore¹

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Conference: Plenary Session 1 / 4

Norwegian eInfrastructure for Research and Education

Author: Gunnar Bøe^{None}

Conference: Plenary Session 3 / 5

The challenges of High luminosity LHC: computing, software and physics

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Conference: Plenary Session 1 / 6

Status and advances of ARC

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Conference: Plenary Session 4 / 7

Virtualisation & containers - a RAL perspective

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Conference: Plenary Session 2 / 8

NeIC - The Nordic eInfrastructure Collaboration

Author: Mattias Wadenstein¹

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Conference: Plenary Session 4 / 9

Web-service for FPGA synthesis using ARC-powered grid infrastructure

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Status of NorForsk projects - ARC for eInfrastructures and Nordic University Hubs

Author: Farid Ould-Saada¹

¹ *UiO*

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ARChestrate and Exercise revisited

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¹ *UiO*

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ARC frontend to HPC

Author: David Cameron¹

¹ *UiO*

-David Cameron: ARC and ATLAS Event Service for HPC

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ARC frontend to Clouds

Author: Sigve Haug¹

¹ *UniBe*

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ARC frontend to volunteer computing

Author: David Cameron¹

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Demo: Introduction to ARC, ARC Control Tower and ATLAS@home

Author: Andrej Filipcic¹

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Conference: Plenary Session 3 / 16

CERN-IT Challenges: the byte, the core and the bit

Author: Xavier Espinal¹

¹ *CERN*

Conference: Plenary Session 5 / 17

From Data Factories to Insight as a Service: Conference summary and Outlook discussion

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Overview of the European Extreme Scale Computing landscape & initiatives (TBC)

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Jottacloud (TBC)

Conference: Plenary Session 4 / 20

How CodeRefinery can support ARC software and vice versa

Author: Radovan Bast¹

¹ *NeIC / UiT*

In this short presentation I will introduce the CodeRefinery project and discuss recommendations for the ARC software maintenance and release cycle and how both projects could support each other.

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Netnordic (TBC)

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Modernising software development

Author: Graeme Stewart¹

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HEP Software Foundation overview

Conference: Plenary Session 5 / 24

Advanced Computing and Cyberinfrastructure in the US : The View from the Texas Advanced Computing Center

Author: Dan Stanzione¹

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Conference: Plenary Session 5 / 25

PRACE in the European HPC landscape

Author: Serge Bogaerts¹

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Conference: Plenary Session 4 / 26

ELIXIR activities in Norway

Author: Lars Ailo Bongo¹

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Conference: Plenary Session 2 / 27

DIRAC software framework

Author: Andrei Tsaregorodtsev¹

¹ *CPPM*

Conference: Plenary Session 2 / 28

ALICE Computing

Conference: Plenary Session 2 / 29

HEP Software Foundation

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Morning slot 1

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Afternoon slot 1

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Afternoon slot 2

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Population models

Author: Jozef Černák¹

¹ UPJS

Is it possible to reverse the low total fertility rate (TFR) in the developed world? Using a hypothetical model of population we have analyzed the decline of the TFR which have took place in the

background of ongoing global economic changes, and a liberalization process after the end of the Cold War. These phenomena have affected more than 110 millions of inhabitants of Central Europe and the Baltics and approximately 80 millions of inhabitants in Germany. The model has features of complex and evolving system of interacting individuals, and it enables to investigate a broad spectrum of input factors on individual decisions to limit the offspring. Evolving agents with simple implementation of AI features are key elements of the model. The model is in the initial state so we present initial ideas how to realize it.

Demo / 36

Integrating Piz Daint @ CSCS in WLCG with ARC