

The CODATA-RDA Research Data Science Summer School

<http://indico.ictp.it/event/9113/>

Thursday, 10 September 2020

0700 UTC session with Alessandro Costantini (INFN, Italy)

Go to www.menti.com then please use this code: **5859452** to participate in the questions that will be asked.

Agenda

0:00-0:05 - Welcome and description of the agenda

0:05-0:15 - Menti

Report from Menti

- provenance of the people
 - >People from Asia, Europe and SAfrica
- area of interest
 - >Different, computer science, physics mainly
- first year school
 - >2017, 2018, 2019
- Computing platform you are using
 - local computer
 - computing resources from your university/institute
 - cloud resources
 - >Almost all the people use personal computer or university resources, No one selected cloud resources
- Never heard of public cloud providers? (AWS, Google Cloud Platform, other)
 - Yes/No
 - >Most of the people answered YES, only 2 NO
- Are you using resources or services from any cloud provider for your research?
 - Yes/No
 - >Most of the people answered YES, meaning that they do not use cloud for resources but for services

0:15-0:25 - Cloud services: what we have learned

0:25-0:35 - Breakout rooms (open questions)

<https://zoom.us/j/94875708630>

Meeting ID: 94875708630

Password: 141278

- How would you think cloud services will improve your research in terms of
 - Quality of the research outcomes
 - Communication
 - Reproducibility and availability of results
- Is it anything related to privacy or intellectual property issues that you would report?

00:35 - 00:45 Report back: each group should nominate a person to report back.

00:45 - 00:55 Q&As - please remember the instructions stated above!

00:55 - 01:00 Closing words

Please, elect a representative and report your answers

Group1_Abdullahi Ibrahim

Q1.How would you think cloud services will improve your research in terms of

-- Quality of the research outcomes

Multiple analysis can be done at the same time with cloud computing which saves time and the quality of research can be achieved. It will also facilitate teamwork. It's also easy for research teams to communicate and helps the team to generate more accurate results.

Enhances collaborative research which affects quality. There is value for money and output/time

-- Communication

In a distributed environment communication over cloud systems enables collaborative work, including the sharing of resources. Communication enhances multidisciplinary research. It improves teamwork

-- Reproducibility and availability of results

Once you subscribe you can always go online to access your resources. There are some standardised scientific computations which become easy for you to reproduce in cloud infrastructure/environments. In such systems also the results are not localised and can be accessed anywhere

Q2.Is it anything related to privacy or intellectual property issues that you would report?

In a cloud environment you are not working on your local PC which means the admin of the cloud infrastructure can have access to your data so technically your privacy/security cannot be guaranteed.

Group 2: **Reporting: Ayansina Ayangbenro**

Group2: How would you think cloud services will improve your research in terms of
Some have used IAA from amazon in the past and the experience was great.

- 1) **Quality of the research outcomes: Cloud computing in south africa: It speeds up the computing activities; It makes it accessible for others to see what is being done; It saves time and money as it reduces the cost of computation.**
- 2) **Communication:**
- 3) **Reproducibility and availability of results: it is readily available on request and also aid reproducibility of research**
- 4) **Is It anything related to privacy or intellectual property issues that you would report?:**

Group3 rep: Sina Sajjadi

- How would you think cloud services will improve your research in terms of
 - *Quality of the research outcomes*
 1. Being able to conduct a higher number of simulations, leads to better results.
 2. Increases the speed of calculations. With lower computational performance some analyses would not be possible.
 - *Communication*
 1. It could lead to an increase of collaboration since multiple people can access the codes and large size data.
 - *Reproducibility and availability of results*
 1. Having access to cloud computational infrastructure will help more people to be able to reproduce results.
- Is it anything related to privacy or intellectual property issues that you would report?
 1. Your codes and data should be carefully licensed and privacy issues should be considered.

Group 4: Anup Kumar Das, Rakesh Kumar Saroj

- *Quality of the research outcomes:* We can make use of cloud services for sharing research results and sharing published research. We can get better collaboration and

informed discussion on shared documents. The group can review the documents and improve the quality of research.

- Out of the box services can be shared and reused. On-demand sharing of resources, including the computational resources.
- **Communication:** Research data can also be shared among the research team. And also externally to the global researchers.
- Training is important for better understanding of cloud computing and cloud resources available within the research systems.
- **Reproducibility and availability of results:** While publishing research findings and research data, data integrity and FAIR data principles are followed.
- **Is It anything related to privacy or intellectual property issues that you would Report:** Need to follow the country-specific norms and standards related to data privacy and IP. We also need to follow the global standards, such as, GDPR, for internationally collaborative research projects.

Remember to fill the form below

Please fill the form below

Name	Affiliation
Sina Sajjadi	Sharif University of Technology, Iran
Behzad Salmassian	Shiraz University, Iran
Rabiat Ohunene Abdulaziz	PAUWES, University of Tlemcen, Algeria
Waheed Sanya	The state university of zanzibar
Anup Kumar Das	Jawaharlal Nehru University, India
Abdullahi Adinoyi Ibrahim	Baze University Abuja, Nigeria
Miteshkumar Pandya	Information and Library Network Centre, India
NIYITANGA Dieudonné	Bank of Kigali, Business Intelligence Department, Rwanda
Mohammed Abdullah Abdulrahman Ahmed	Sudan Atomic Energy Commission
Vinit Kumar	Babasaheb Bhimrao Ambedkar University, India

Maja Dolinar	University of Ljubljana, Slovenia
Simisani Ndaba	University of Botswana
Chinedu Christopher Obieze	University of Port Harcourt
Hari Prasad Nepal	Kathmandu University
Umair Ahmed	University of Karachi, Pakistan
Ayansina Ayangbenro	North-West University, South Africa
Michael Olatunji	University of Lagos, Nigeria
Ben Jesuorsemwen Enagbonma	North West University, South Africa
Bright Kwaku Avuglah	University of Ghana
Alisha Budhathoki	Central Department of Physics, Tribhuvan University, Nepal
Jean Baptiste Fankam Fankam	University of Yaounde, Cameroon
Rakesh Kumar Saroj	SRM University Gangtok
Monday Sunday ADIAHA	Nigeria Institute of Soil Science
David Jiménez González	Instituto Costarricense de Electricidad, Costa Rica.