

NITheCS COLLOQUIUM: FEDGEN: A FEDerated GENERAL 'Omics' Cloud Computing Infrastructure for Precision Medicine and Artificial Intelligence Research in Africa

Prof Emmanuel Adetiba (Durban University of Technology
and Covenant University, Nigeria)

Monday, 9 October 2023 | 16h00 – 17h00 SAST

Venue: online

ABSTRACT

The FEDerated GENeral "Omics" (FEDGEN) cloud computing project is aimed at the design, implementation and deployment of groundbreaking research artefacts on federated cloud computing, artificial intelligence and general "omics" in Africa. The specific objectives of the project are to address critical issues in the continent, in the areas of research capacity/infrastructure, precision medicine, early disease diagnosis, evidence based public health decision making, public health education and medication efficiency. The research is currently funded by the World Bank and France Development Agency through the ACEImpact project on the platform of Covenant Applied Informatics and Communication Africa Center of Excellence (CApIC-ACE) at Covenant University, Nigeria and other collaborating institutions regionally and internationally (<https://bit.ly/3RNQcux>).

The links to key outcomes from this research work are:

<https://fedgen.net/phis>

<https://fedgen.net/fedgenclouds>

<https://jupyternb.fedgen.net/hub/admin/>

<https://ace.covenantuniversity.edu.ng/hpcworkshop-pic.php>

<https://bit.ly/48EH4yn>

BIOGRAPHY

Emmanuel Adetiba (Member, IEEE) obtained a PhD degree in Information and Communication Engineering from Covenant University, Nigeria. He also obtained a Postdoctoral Fellowship Certificate from the Durban University of Technology (DUT) in Durban. He is a registered engineer (R.Engr.) with the Council for the Regulation of Engineering in Nigeria (COREN) and a member of the Institute of Information Technology Professional (IITP), South Africa, as well as the Institute of Electrical & Electronics Engineering (IEEE), USA. He is a recipient of several past and ongoing scholarly grants from the World Bank, France Development Agency, Google, US National Science Foundation, the Durban University of Technology in South Africa, Nigeria Communications Commission, Rockefeller Foundation and the International Medical Informatics Association. He is a full professor and former Head of the Department of Electrical & Information Engineering, Covenant University (2021 to 2023). He is also a former director of ICT (2017-2019) at Covenant University. He is currently a visiting professor at the KZN eSkills Co-Lab and an Honorary Research Associate (HRA) at the Institute for System Sciences at DUT.



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