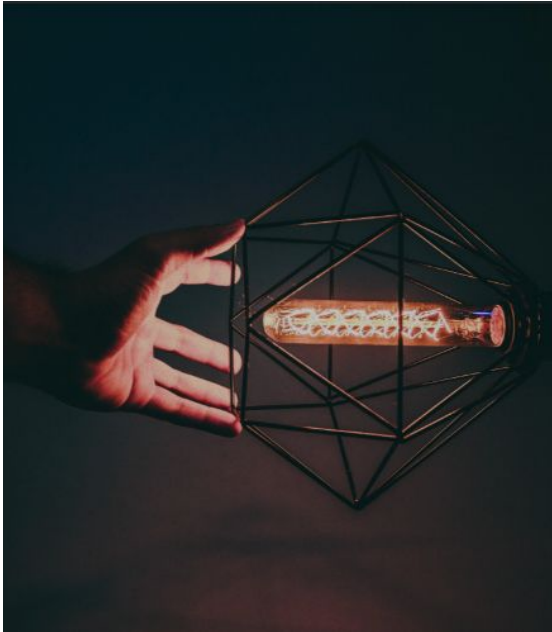


DATA CENTRIC ENGINEERING (D-ACE) WORKGROUP



October 29, 2020

Overview

Bridging engineering design, modelling and simulation, statistics, big data and machine learning for impacting sustainable development in Africa.

Why now ?

Data driven methods and machine learning are transforming the way engineers understand the world and build models to solve problems.

D-ACE APPROACH

1. Embark on community-led group-based projects that have direct impacts in Africa.
2. Factor resource constraints into the solutions space (that is, adapt models and solutions to the realities of the environment)
3. Work at the intersection of theory and practical applications.
4. Enlist experienced/expert engineers (home and abroad) as voluntary group members that give expert advice and guidance on project road-map.
5. Project based approach to human capacity development.
6. Encourage groups to improve, scale and expand the projects into business ideas in their regions.