UNIVERSITY of RWANDA

African Center of Excellence in Internet of Things(ACEIoT)

NewsLetter

ACEIoT

November 2019

At 15th November 2019, Rwanda were celebrating the World Science Day 2019 under the theme : "Science for Peace and Development: Open Science, Leaving no one Behind " Students from ACEIOT was the among exhibitors of some projects where one project was about Smart bees hiving Technology presented by Elias Ntwuzumunsi from PhD, and other projects from masters students was about Smart Gaz leakage detection by Gaspard Nelly Uwumuremyi and Marie Grace Mujawamariya and Smart fish feeding remotely by J. Baptiste Habanabakize and Honore Safari. The projects was explained to the state Minister Dr Isaac Munyakazi who appreciate and encourage students from ACEIoT

ACEIoT students during World Science Day 2019

ACEIoT Masters and other Regional participants attended a short course on "Multi Sensor Deployment in Drones'

Students pose for a group photo

Professionals in different IoT related disciplines mainly Computer Science, Information Technology/Systems, Engineering disciplines, Geospatial Technology/Geography from Rwanda and the East African region have concluded a five -day short course in 'Multi Sensor Deployment in Drones'. The short course was organized by the African Center of Excellence in Internet of Things (ACEIoT) in collaboration with the IEEE Geoscience and Remote Sensing Society and Rochester Institute of Technology-USA.

This short course is very useful given that the demand for connectivity is driving the IoT for drones/UAVs, better and cheaper micro-electromechanical systems sensors – accelerometers, gyros, magnetometers and often pressure sensors – small GPS modules, powerful processors and a number of digital radios have pushed the controversial devices into the mainstream market.

Marie Grace Mujawamariya, one of participants finds the training beneficial and timely as she got skills that will help her improve and run her project she is developing.

"We are developing a project about crop diseases detection, with the case of maize crop. From this training, we figured out the types of sensus that will be useful for our project and how these can be implemented and put our project on the market as final product", she said.

Participants have also experimented some use of the UAVs to see how data can be collected with drones.
In five days, participants acquired skills namely the use of a drone simulator on a smartphone, operating a simulated UAV on a smartphone, identifying security measures when flying a drone, and designing IoT devices given a certain set of application requirements.

ACEIoT students trained 18 high school students on IoT technologies

The African Centre of Excellence in Internet of Things (ACEIoT) in partnership with National Commission of Science and Technology (NCST) have trained students from high schools on IoT technologies. The training was attended by 18 high school students from SOS Technical School and Lycee de Kigali. The training took place from 4th to 6th November 2019.

During this training, the trainees acquired skills which will help them combine hardware system and software to be able to design projects that may respond to existing challenges in the community.

Students trained on IoT technologies

They also acquired skills which can help the businesses owners to manage their businesses wherever they are, anytime at any place through public internet connectivity.

Trainees were challenged to find a problem in their community and design a project as solution to it using IoT scenario.

Comprehensive Examination for the first cohort of PhD students

Members of the Doctoral committee during the presentation

From 7th to 8th November 2019, the first cohort of PhD students held the second meeting with the Doctoral Committee for the comprehensive examination for doctoral candidature.

This meeting is one of three meetings that should be held during PhD studies as stipulated in the general program structure of doctor of philosophy degree by research and the UR PhD program handbook.

The meeting was also attended by the UR Deputy Vice Chancellor, Academic Affairs and Research Prof. Nelson Ijumba

During this meeting, students presented their Extensive Research Proposals and re.

search progress and the Doctoral Committee assessed their progress for awarding the Doctoral candidature.

The UR -ACE Center leaders attended the ACEs Technical advisory meeting in Lilongwe, Malawi

A team led by the UR DVC Finance Mrs KayitareTengera Francoise has participated to the ACE technical advisory meeting. The meeting took place from 18th to 20th November 2019 in Lilongwe, Malawi. The team was made by the UR ACEs Directors, Principals of Colleges hosting the Centers and World Bank representatives.

During this meeting, participants assessed the extent to which centers are performing; the challenges they are facing and propose possible solutions to successfully implement the project. Particularly,

UR ACEs were applauded for their performance and urged to keep the momentum. The meeting reviewed different DLI and some were reallocated.

Center Leaders at the Technical and Advisory meeting

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