



Science and Technology conference call for Abstracts

Leveraging the Potential of Science and Technology to Mitigate Challenges
Associated with COVID-19 pandemic in Developing Countries

Virtually, in Kigali, 26-27 January 2022

Background

The outbreak of novel coronavirus disease (COVID-19) was first reported to World Health Organization (WHO) in December 2019. Covid-19 has been the most disruptive tragedy in this century affecting the wellbeing of humanity in terms of disrupting the health and social and economic fabric of all nations. To date, more than 220 million people have contracted the disease, of which more than 4.5 million have succumbed to the disease.

Science and technology advances have demonstrated the potential to mitigate the impact of COVID-19 through improved application of technological tools to improve the welfare of society. There is a need for researchers and innovators in all countries including developing countries to coordinate and direct their efforts so that they can address both global and local challenges being faced. This conference aims to provide a platform for researchers and innovators in science, medicine, engineering, and computer science from all over the world to deliberate on technologically innovative efforts underway to respond to the COVID-19 pandemic. Participants will share the effectiveness of existing and novel responses and shape strategies on R&D technological tools needed in developing countries to address pressing health, social and economic challenges, as well as secure societies' long-term resilience.



Abstracts shall be submitted under the following themes and subthemes, but not limited to the specified areas under the subthemes

1. The role of science and technology in addressing COVID-19 pandemic e.g.:

- Improving diagnostics and real-time testing
- Developing new diagnostics tools in country
- Mathematical approaches for strengthening testing

2. Building resilience to crises and to mitigate the impact of COVID-19 pandemic e.g.:

- Health information systems for low-literate populations
- Role of ICT in the society (Hybrid teaching during COVID-19 pandemic)
- Mobile technologies and various innovations using local materials, drones, i.e., agriculture perspective
- Understanding the effectiveness of campaigns against COVID 19 pandemic

3. Predicting and Monitoring impact of COVID-19 pandemic e.g.:

- Modeling the impact of COVID-19 in developing countries
- Real-time data collection and analysis
- Data visualization tools
- Blockchain technologies and solutions to problems related to disease

4. Management and Treatment approach for COVID-19 e.g.:

- Supportive Care and Respiratory Support
- Targeting the Virus and the Host Response
- Management of COVID-19 associated Complications
- Prevention measures
- Vaccine development and its access
- Digital vaccination certificates

Format of the abstracts

The scientific committee invite all scientific papers in line with the theme of this conference; *Leveraging the Potential of Science and Technology to Mitigate Challenges Associated with COVID-19 pandemic in Developing Countries*. It is expected that authors of accepted abstracts will give the talk presentation of their papers in this conference to be held online and will also submit a full paper to the Proceedings to be published in selected journals.

Abstracts should be submitted using the template provided on NCST website (www.ncst.gov.rw) under the call abstract. It should be a minimum of 250 words and up to 350 words. The abstract may contain a problem/question addressed the specific approach, and the contributions so far. The abstract should be in line with the main theme of the conference and linked to the conference's sub-themes. The oral presentations will be grouped in sessions based on the sub-themes. The final abstract should be a single page and written in English to professional standard suitable for publication.

Note that the deadline for submission of Abstracts is **30th November 2021.**

Eligibility

Abstracts shall be accepted from researchers, industrialists and innovators from the academia, research institutions, and the private sector from all over the world.

Young researchers are encouraged to submit Work-In-Progress abstracts. A special session will allow them to present their research progress and get feedback from other researchers.

Submission

The abstracts shall be submitted electronically via the conference secretariat email stconference@ncst.gov.rw

Registration

[Click here for conference registration](#)

Best Paper Awards

The best paper presentation will receive awards in the following category:

Distinguished Research Achievement Award
Best Female Scientist Award
Distinguished Science and Technology Award &
Rising Star Award (from their pitches)

Scientific committee / Local organizers

Dr. Marie Chantal Cyulinyana (NCST), Dr. Japhet Niyobuhungiro (NCST), Prof. Bideri Nyamulinda (UR), Ms. Noella Bigirimana (RBC), Prof. Timothy X Brown (CMU-Africa), Prof. Matt Ames (UGHE), Dr. Isambi Sailon Mbalawata (AIMS)

For Additional Information, please contact the conference secretariat at

stconference@ncst.gov.rw

Important Dates

1st October 2021: Call for abstract is launched

1st October 2021: Online Registration open

30th November 2021: Deadline for online submission of abstracts

15th December 2021: Feedback to authors on abstracts

19th January 2022: Briefing with authors of the accepted abstracts