



The Abdus Salam
**International Centre
for Theoretical Physics**



Workshop on TinyML for Sustainable Development

Description:

TinyML is a new technology that allows machine learning models to run on low-cost, low-power microcontrollers. This technology has a significant role to play in achieving the Sustainable Development Goals (SDGs) and in enabling new applications in fields such as healthcare, agriculture, environmental monitoring and conservation. TinyML is also a great educational tool as it explores topics from across the computer science and engineering curricula. In this workshop we will discover practical applications of TinyML in addressing global challenges that are particularly relevant to African researchers and we will provide hands-on training on commercially available hardware.

TOPICS:

- Introduction to TinyML
- Sensors and Data Collection
- Energy Efficiency
- Environmental Monitoring
- Health Monitoring
- Agriculture Monitoring
- Ethics and Machine Learning

Participants will be invited to submit articles in Special Issue on Artificial Intelligence and Sustainable Development of the Journal of Artificial Intelligence for Sustainable Development (JAISD).



31 March - 4 April 2025



Zomba, Malawi



**Deadline:
25 January 2025**

DIRECTORS:

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FURTHER INFORMATION:

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Female scientists are encouraged to apply.



GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

