

The Committee on Engineering for Innovative Technologies (CEIT) has set its objectives in the area of technological advancements to identify and promote suitable technologies for sustainable development, especially in the context of the UN Sustainable Development Goals

WFEO-CEIT



World Federation of Engineering Organizations

Standing Technical Committee on Engineering for Innovative Technologies (WFEO-CEIT)

WFEO-CEIT NEWSLETTER

August 2021

EVENT REPORT

➔ Online Open Courses on Innovative Technologies for Sustainable Development

Engineering plays a key role in achieving the UN Sustainable Development Goals (SDGs), which enables us to develop practical solutions to issues facing the humanity. Moreover, it is crucial to the development of new technologies, which drive the 4th industrial revolution represented by Artificial Intelligence, Internet of Things, Robotics, Quantum Computing, etc. The promotion and application of engineering for innovative technologies could contribute to sustainable development and help developing countries to close the technology gap which is essential to sustain the UN 2030 Sustainable Development Agenda.



The Committee on Engineering for
Innovative Technologies (WFEO-CEIT)



Innovative Technologies for Sustainable Development

Online Open Courses

<http://www.wfeo.org/committee-engineering-for-innovative-technologies/>

START

July 2021

This serial of online open courses on Innovative Technologies for Sustainable Development aims to popularize the basic knowledge of innovative technologies to the public and introduce the key role of innovative technologies in promoting sustainable development.



Episode 1 - Big Earth Data Management Development and Its Application for SDG15

Big Earth Data can provide SDGs with rich information of large scale and periodic changes for decision support. Prof. Juanle WANG introduces Big Earth Data and shares two cases of its application in achieving SDGs, especially SDG15.

Episode 2 – The prospect of Non Traditional Data and Computational Science for Sustainable Development

Making the right decision not only engenders growth but also ensures sustainability. Dr. Moinul Zaber introduces new computational technologies that are shaping the realms of decision-making and service delivery to promote sustainable development.



Episode 3 - Artificial Intelligence (AI) for UN Sustainable Development Goals

In this lecture, Dr. CheeFai TAN gives us a comprehensive understanding of Artificial Intelligence, introducing the history and advantages of AI, types of learning in AI, and especially its application for the 17 SDGs.

Episode 4 - Internet of Things (IoT) for Sustainable Development Goals

IoT technology is contributing to the improvement of citizen's quality of life and company's competitiveness. Dr. CheeFai TAN systematically introduces the IoT technology and shares applications cases of IoT in various industries to highlight its important role for SDGs.



This serial of online courses will be one of the major activities of WFEO-CEIT in the second half of 2021. We warmly welcome experts in the field of innovative technologies to join this event. Please contact the **WFEO-CEIT secretariat** (wfeo-ceit@wfeo.org) for more information.