



The Committee on Engineering for Innovative Technologies (CEIT), hosted by China Association of Science and Technology since 2015, undertakes to lead the engineering profession worldwide towards promotion and application of engineering for innovative technologies for sustainable development and helping developing countries to close the technology gap which is essential to sustain the UN 2030 Sustainable Development Agenda.

Jing Peng,
Chair of CEIT,
China Association for Science and Technology



Innovative technologies are attracting more and more researchers and investment. New sustainable industries are being created and will expand in the near future. The Goal of the Committee is to advance the use of innovative technologies, especially Artificial Intelligence and Big Data, for sustainable development.

For the past two years, CEIT has been dedicated to be a leading international comprehensive platform for engineering professionals from multi-stakeholders to:

- Promote ethical and responsible development and application of Big Data and Artificial Intelligence.
- Identify the next innovative technologies for sustainable development.
- Share the innovative engineering experience in building a sustainable society.
- Enhance national and international collaboration among multi-stakeholders to promote innovative technology engineering to facilitate a sustainable world.

Big Data and Artificial Intelligence

WFEO calls for promoting responsible conduct of Big Data and AI innovation and application in Engineering. CEIT set its focused area on Big Data and AI, carrying out a series of activities on related topics to further promote innovation and application of Big Data and AI.

In celebration of WED 2022, CEIT held a webinar on *Build Back Wiser: Engineering a Sustainable, Inclusive and Green Future with Ethical AI* on 17 March 2022. This webinar convened engineers, policymakers, researchers and educators to discuss the roles and responsibilities of engineers while conducting AI innovations and applications.

In June 2022, CEIT invited Prof. Gong Ke (WFEO's immediate Past President) to attend the Dialogues of the *Institute for Accountability in the Digital Age (I4ADA)* and to discuss with its chair Mr. Frits Bussemaker, who is also member of the *CEIT Working Group on AI & Big Data*, on the responsibilities of engineers, engineering ethics, technology neutrality, and the role of engineers in the digital age.

On 4 May 2023, Mr. Li Pan, Executive Director of the *CEIT Working Group on AI & Big Data*, attended the online workshop on "*New Technology vs Disaster Risk Reduction: Opportunities and Emerging Risks*" organized by the *Integrated Research on Disaster Risk (IRDR)*, and presented "*An Open Cocktail of Engineering, AI, DRR...*".

Digital Transformation

On 15 August 2022, CEIT held the *International Seminar on Digitization and Green Transformation* in Huzhou, China. This seminar aimed to facilitate discussions on the important role of digital technology and digital innovation on Green transformation and low-carbon development, as well as illustrating the successful cases from around the globe to demonstrate good digital solutions to promote green and low-carbon development and achieve UN SDG#13.

The *ASEAN Engineering Digital Transformation Summit* was held on 18 March 2022. It was a virtual summit curated by engineering & technology experts from various industries across the region to gather and discuss topics that are currently at the top of the world's agenda, as well as network with their peers. Dr. Peng Jing, Chair of CEIT, was invited to give a report on *Digital Transformation in Engineering: Its Principles and Application*.

Engineering Innovations

The *2022 China International Fair for Trade in Services (CIFTIS)* was held from 31 August to 5 September in Beijing. During the Fair, CEIT on behalf of WFEO hosted an exhibition and a high-level seminar with the topic "*Engineering Innovations for Green and Low Carbon Development*". Experts and scholars from government, industry, universities and institutes participated in the seminar, exchanged and shared their views on how engineering can help achieve green and low-carbon development from three dimensions: technological revolution, policy support, and industrial development.

Best Practices of Engineering Innovations for Green and Low carbon development were showcased at the exhibition, aiming to promote the important role of engineering practice in serving green and low-carbon development, display the innovative practice achievements of engineering innovation serving green and low-carbon development, and promote global engineering innovation exchanges.



High-level Seminar on Engineering Innovations for Green and Low Carbon Development, Beijing, China, September 2022



Webinar on Build Back Wiser Engineering a Sustainable, Inclusive and Green Future with Ethical AI, online, March 2022



Panelists at Webinar on Build Back Wiser Engineering a Sustainable, Inclusive and Green Future with Ethical AI, 17 March 2022

Key achievements

The CEIT Working Group on AI & Big Data

In order to further promote the innovation of Big Data and Artificial Intelligence and the development of the industry, and to promote the application of Big Data and AI in creating a better life for humanity, CEIT set up the Working Group on AI & Big Data with experts from industry, academia and government.

The CEIT Working Group on AI & Big Data continually carried out activities in CEIT's focused area, including organising the webinar on AI Ethics, the Dialogues of I4ADA on Accountability in digital age, attending the IRDR workshop on "New Technology vs Disaster Risk Reduction: Opportunities and Emerging Risks". The working group also helped with the promotion of the World Engineering Day on Douyin Platform with the topic "Looking for Engineers", played approximately 520 million times.



Exhibition on Engineering Innovations for Green and Low Carbon Development, Beijing, China, September 2022



The International Seminar on Digitization and Green Transformation, Huzhou, China, August 2022