

Title

KOSEN, NOW

Contribution Category

Keynote

Abstract

KOSEN, which will celebrate the 60th anniversary of its foundation next year, was established in the 1960s in response to the strong demand from the industry as Japan entered a period of rapid economic growth. Since its inception, it has evolved by reacting to the structural changes in society and industry, taking advantage of its unique system that cannot be found anywhere else in the world. In the 21st century, the emergence and spread of IoT and AI technologies greatly impact our society. Also, initiatives for the SDGs are required. Now KOSEN is moving forward with a drastic transformation to meet new demands.

KOSEN launched a project to advance education on knowledge, literacy, and fundamental technologies for AI, robotics, IoT, and cybersecurity (COMPASS 5.0). For example, KOSEN Deep Learning Contest, a competition for students to compete with entrepreneur ideas to solve social problems, was launched in relation to utilizing AI technology. KOSEN has also commenced a project to empower education and research in the five fields: healthcare and medical engineering, agriculture and fisheries, materials, prevention and mitigation of disasters and epidemics, concurrent with the government's policies (GEAR 5.0).

One of the main targets of KOSEN education is to develop engineers who can tackle and solve social problems by implementing the fruits of science and technology, contributing to the happiness of people and the sound

development of society, and creating innovations. It aims at an "Education for Social Implementation" or "Fostering a Social Doctor."

With rapid globalization, collaborations with international communities are vital in our age. KOSEN has supported the introduction of KOSEN-model education in Mongolia, Thailand, and Vietnam. Furthermore, it exports a KOSEN education system in Thailand. Many other countries, such as ASEAN and African countries, are now paying keen attention to KOSEN.

"KOSEN is KOSEN" is said from its uniqueness. As higher educational institutions that foster creative and innovative engineers not only in Japan but also outside Japan, it is crucial to assure the education outcomes internationally. Accordingly, KOSEN will develop a new quality assurance standard.

During ISATE 2021, let us discuss "Advancement" and " Globalization" to promote high-quality education.

Keywords

standardization, social implementation, AI, deep learning,
international collaboration

Conference theme

Not applicable

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