

KSUM 2026

THE 57TH ANNUAL CONGRESS OF
THE KOREAN SOCIETY OF ULTRASOUND IN MEDICINE

MAY 7 (THU) - 8 (FRI), 2026 | COEX, SEOUL, KOREA



Speaker : Jae Youn Hwang

Affiliation : DGIST, Electrical Engineering and Computer Sciences/Biomedical Science and Engineering

Specialty : Others

Lecture Title : When Ultrasound Imaging Systems Meet AI: Reconstruction, Diagnosis, and Beyond

PT_No. : MP05-S1

In recent years, advances in ultrasound imaging technology have substantially enhanced diagnostic capabilities across diverse medical applications. In this talk, I will provide a comprehensive overview of state-of-the-art developments in intelligent ultrasound imaging systems. Specifically, I will introduce a novel deep learning-based approach for lesion segmentation in ultrasound images, an AI-powered ultrasound scanning guidance system that assists clinicians in optimizing scanning procedures, and a super-resolution ultrasound imaging technique that surpasses the resolution limits of conventional approaches. By incorporating advanced deep learning models, this method improves image clarity and structural detail, thereby enabling more accurate diagnosis. Taken together, these advancements highlight the transformative potential of AI-based ultrasound imaging to improve diagnostic outcomes and further expand the capabilities of noninvasive medical imaging.