

Special Interest Group Medical Ultrasound (SIG-MUS)

Our Mission

SIG-MUS aims to bring together the medical image computing (MIC) and computer-assisted intervention (CAI) communities to work towards the next generation of medical ultrasound imaging methods and systems. We envisage a future for clinical ultrasound that truly combines advances both in MIC and CAI, acknowledging the unique capabilities of ultrasound as an interactive anatomic and functional imaging modality that can be manipulated directly by human operators or robotic systems. This SIG also helps bridge the research and clinical ultrasound communities to design and implement new ultrasound-enabled applications that provide revolutionary healthcare benefits.

International Workshops

ASMUS 2025

ASMUS 2024

ASMUS 2023

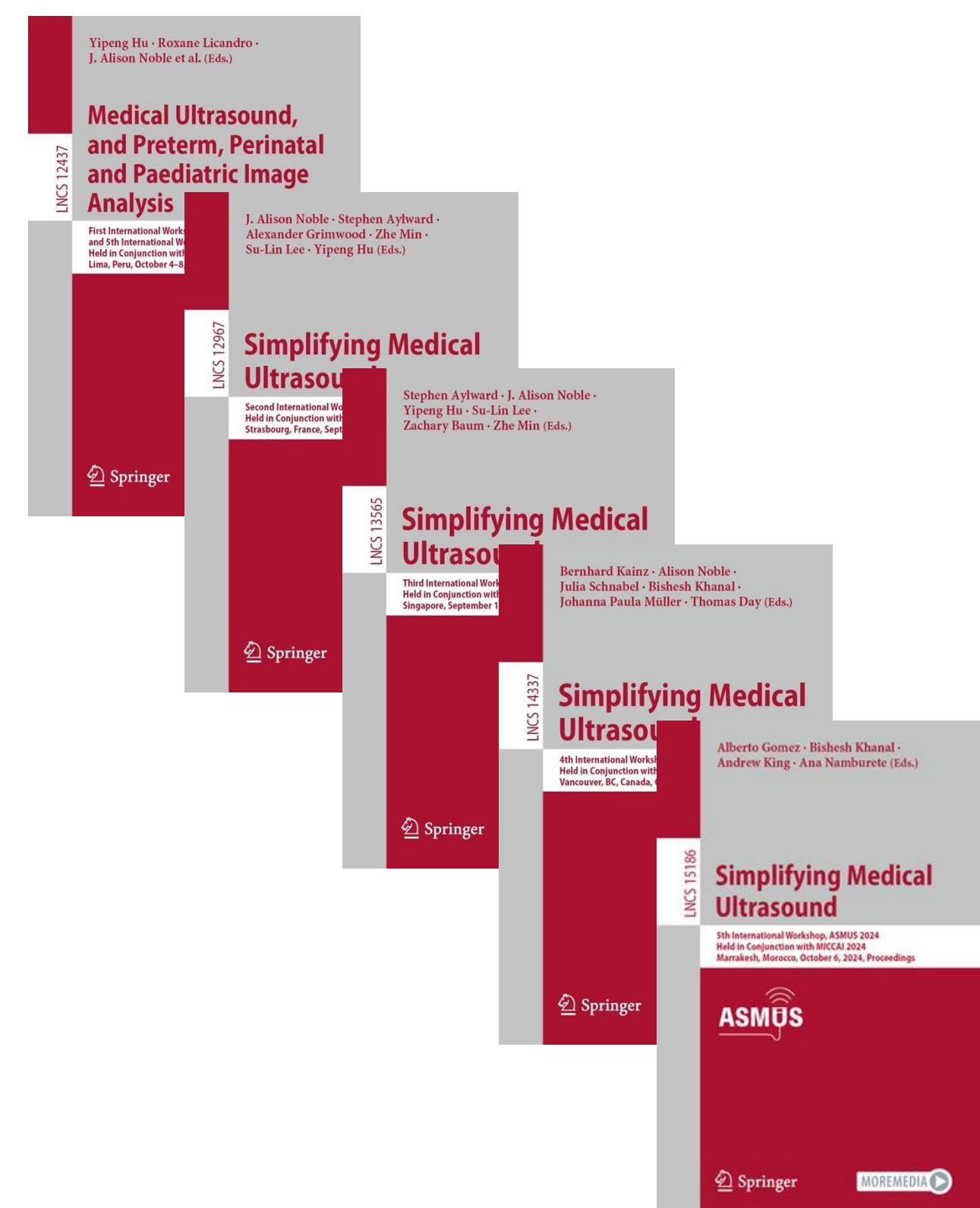
ASMUS 2022

ASMUS 2021

ASMUS 2020

POCUS Workshop 2018

POCUS Workshop 2017



MICCAI Ultrasound-SIG

ASMUS Workshop '25

ASMUS

The 6th International Workshop of Advances in Simplifying Medical UltraSound (ASMUS) - a workshop held in conjunction with **MICCAI 2025**, the 28th International Conference on Medical Image Computing and Computer Assisted Intervention.

ASMUS is the official workshop of the **MICCAI Special Interest Group on Medical Ultrasound**.

Call for Papers

NEWS: We are happy to share with you that an interesting J-BHI special issue on **Next-Generation AI-Powered Medical Ultrasound Imaging: Methods and Systems** is newly launched, which aligns quite well with the ASMUS workshop. Extension of the workshop papers are encouraged to be submitted to this special issue.

Associated Challenges and Tutorials

IUGC 2025: Landmark Detection Challenge for Intrapartum Ultrasound Measurement Meeting the Actual Clinical Assessment of Labor Progress

TUS-REC 2024, 2025: Trackerless 3D Freehand Ultrasound Reconstruction Challenge

Thyroid 2020: Thyroid Nodule Segmentation and Classification in Ultrasound Images

SlicerIGT 2018: Hands-on Tutorial on Rapid Prototyping of Ultrasound-Guided Intervention Systems

The Ultrasound Working Group - collaboration with MONAI

- ✓ 120 members and growing
- ✓ Bi-weekly lectures, followed by breaking into four subgroups
 - B-Mode Segmentation (e.g., US-TotalSegmentator)
 - DICOM & Data Streaming (e.g., De-identification, Import/Export)
 - RF Algorithms (e.g., Speed of sound estimation, Simulation)
 - Advanced Applications (e.g., Robotics, AR/VR)

Please register your interest with the SIG-MUS!

