



INVITATION TO PARTICIPATE IN THE TUS-REC CHALLENGE (MICCAI 2024)

We are excited to announce the launch of the [TUS-REC Challenge](#), which is a part of the 27th International Conference on Medical Image Computing and Computer Assisted Intervention ([MICCAI 2024](#)), held in conjunction with the 5th ASMUS workshop, October 6th 2024 in Marrakesh, Morocco. The challenge is supported by the MICCAI Special Interest Group in Medical Ultrasound ([SIGMUS](#)) and will be presented at its international workshop [ASMUS 2024](#).

- ❑ **Objective:** Reconstructing a 3D volume from 2D ultrasound (US) image slices enables 3D representations of anatomy without using any external spatial tracking devices. This application is considered beneficial for a wide range of clinical ultrasound imaging tasks. The TUS-REC challenge aims to provide a benchmark for freehand US reconstruction with publicly available *in vivo* US data from forearms of one hundred volunteers (2400 scans, approximately optically-tracked 1,206,900 frames in total), using multiple predefined scanning protocols.
- ❑ **Baseline Code:** An implementation of training baseline models has been released in the publicly accessible [GitHub repository](#), for a reference reconstruction method and an example of participating algorithms.
- ❑ **Links to Resources:**
 - [Full challenge description](#)
 - Training data set ([Part1](#), [Part2](#), [Part3](#))

We welcome submissions from all, whether you are an academic, an independent researcher, or an industry expert. We look forward to your participation!

For any questions or issues during participation, please reach out to qi.li.21@ucl.ac.uk.

On behalf of the TUS-REC Organizers,

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