Grand Challenge on Respiratory Sound Classification for SPRSound Dataset

IEEE BiOCAS 2023 Toronto
Biomedical Circuits and Systems Conference
October 19-21, 2023 | Toronto, Canada

ARTIFICIAL INTELLIGENCE BIOMEDICAL CIRCUITS AND SYSTEMS FOR HEALTH

IEEE BioCAS 2023 Grand challenge on Respiratory Sound Classification

IEEE BioCAS 2023 organized its second grand challenge on respiratory sound classification using the SPRSound dataset. Over 60 teams participated in these two grand challenges. The top 3 teams were selected based on the quality of their paper submissions and solutions and are invited to present their algorithms and classification results in the BioCAS 2023.

Dataset Paper

Timeline

- Commencing Grand Challenge
- End of Project Submission
- Regular Paper Submission
- Final Paper Submission

| 1st March | 19th May | 9th June | 11st August | 1st September | 19th-21st October |

- Start of Project Submission
- Author Notification Date
- IEEE BioCAS

Main Organizers

上海交通大学 SHANGHAI JIAO TONG UNIVERSITY

SCMC

ChildCare 云听
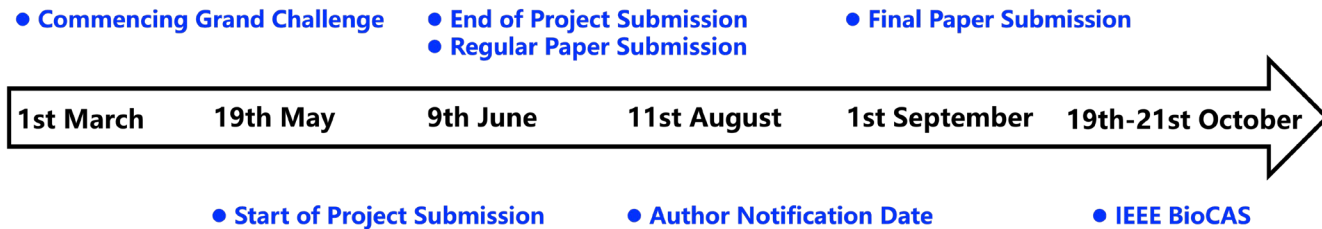
Special Session Schedule of the Grand Challenge

- **Session Type:** Grand Challenge Competition
- **Date:** Saturday, Oct 21, 2023
- **Time:** 12:00 - 13:30
- **Presenter:** Top-3 teams
- **Venue:** Westin Harbour Castle Hotel

Poster Session Schedule of the Grand Challenge

- **Session Type:** Poster
- **Session Code:** C6P-C
- **Location:** Poster Area 2
- **Date & Time:** Saturday October 21, 2023 (16:00 - 18:00)

Top-3 Teams of the Grand Challenge

- Team Bio ICDS: Nanyang Technological University
- Team UoE_AIT: University of Essex
- Team CoCross: Aristotle University of Thessaloniki

Paper Id	Title
5063	Grand Challenge on Respiratory Sound Classification for SPRSound Dataset
5232	A Deep Learning Architecture with Spatio-Temporal Focusing for Detecting Respiratory Anomalies
5330	Supervised Contrastive Pretrained ResNet with MixUp to Enhance Respiratory Sound Classification on Imbalanced and Limited Dataset
5389	Pediatric Respiratory Sound Classification Using a Dual Input Deep Learning Architecture