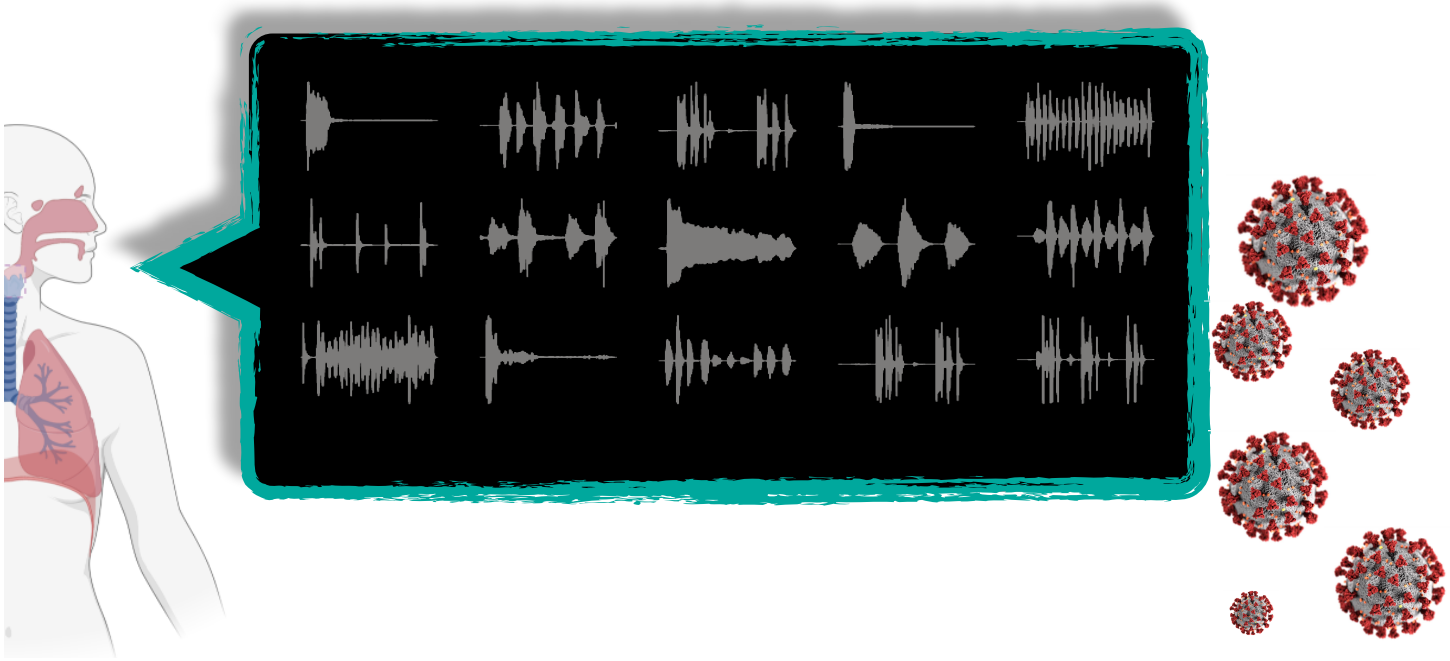
The Second DiCOVA Challenge

Diagnosing COVID-19 using Acoustics

Aug 11 - Sep 24, 2021



Event Date
Registration Opens
August 11, 2021

Website
https://dicovachallenge.github.io/

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The early symptoms of COVID-19 indicate impairments in the normal functioning of the respiratory system. **Does this alter the acoustic characteristics of breathe, cough, and speech sounds?** This is an open question waiting for scientific insights.

A COVID-19 diagnosis methodology based on acoustic signal analysis, if successful, can provide a remote, scalable, and cost-effective approach for screening (or testing) individuals. This can supplement the existing molecular COVID-19 testing methods, such as RT-PCR and RAT.

The **Second DiCOVA Challenge** is designed to encourage a scientific and engineering exploration into COVID-19 diagnosis using acoustics.

Highlights:

- Participants will be provided with an audio dataset composed of breathing, cough, and speech sound samples collected from individuals with and without COVID-19.
- Participants will be required to build machine learning models for classifying COVID subjects from non-COVIDs.
- Participants will evaluate model performance on a blind test set and compete on a leaderboard.

The challenge timeline is set to encourage submission of findings to the International Conference on Speech Acoustics Signal Processing (ICASSP) 2022 (https://2022.ieeeicassp.org/)