IEEE P2650 WG – SC Meeting
25 August 2020

Mohan Kumar R
Chair, P2650 WG
P2650: Pre-Screening Audiometry Systems

STATUS
IoT for PreScreening Audiometry
IEEE P2650 – WG Profile

- 60% SMEs
- 20% Practicing audiologists
- Rest in R&D and Regulatory domains
MILESTONES

2016 - 2019

Identified Technologies that can be used for Pre-screening
- Headphone (low cost, noise cancellation, etc)
- Mobile/Wearables (low cost, open platforms, Apps, etc)
- Database (cloud infrastructure, interoperability, patient mgmnt, etc)
- Identify validation studies that can be used for Pre-screening
- Localization aspects (syllable test, speech-in-noise tests, etc)

Acceptance criteria and overlap with Current Diagnostic tests

Identify standards that can be used for Pre-screening & Existing standards that can be leveraged upon (ex: IEEE 11073 series)

Draft Standard Version 1.7 Ready for Validation
https://ieee-sa.imeetcentral.com/p/aQAAAAAD4ASl
MILESTONES (Extended PAR period)

2020 -

Validation of Android based Hearing Test Applications (Apps)
Clinical Study is being undertaken to compare the outcomes in a controlled environment that is typical of camp set up and controlled degree of simulated hearing loss in 4-5 centres – this will help refine the calibration thresholds described in the DRAFT standard

Status:
- Ethical and technical clearance obtained, Consent forms for students and patients obtained
- Proposal for project funding has been submitted to IEEE
- Study could not start off as per the project plan as participating academic institutes were temporarily closed in the wake of Covid-19 pandemic
- There is still uncertainty prevailing with regard to the reopening of academic institutes
- Plan for next course of action during a WG meeting in the mid-September
Validation Study Details

Participating Institutions
1. Dr. SRCISH, Bangalore - Lead
2. NISH, Trivandrum
3. KMC, Manipal
4. MAHE, Manipal
5. AIISH, Mysore

Open to add more Institutions – either within India or Outside

More details:
https://ieee-sa.imeetcentral.com/psas/folder/all/WzIsNzE1Mjk0ODVd/

Status:
- Ethical and technical clearance obtained from most of the Institutions
- Project to be done in 3 Phases as soon as Institutions open up post-COVID (expected Oct’2020)
THANK YOU