Software for Hearing Health Care

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Technology description

Market Opportunity

Cochlear implants have helped many children and adults regain their hearing ability, with the market for implants projected to grow to $3.1 billion by 2025. Rehabilitation outcomes after implantation, however, vary widely, representing the need to improve implant design and assessments for measuring device performance. Additionally, no tools currently exist that can help facilitate research in sound processing design and that can simultaneously be used for field applications to evaluate and train hearing impaired individuals.

USC Solution

USC researchers have developed a platform for psychophysical research and application usages. Compatible with all current cochlear implant devices, the software provides a central interface for a variety of applications from collecting device data to performing clinical assessments. The web-enabled software can be used to administer hearing tests and auditory training exercises directly to patients as part of their hearing rehabilitation program.

Application area

Software platform for interfacing with cochlear implant devices

Advantages

Software designed to integrate sound processing design and field assessment applications
Compatible with all currently available implant devices
Web-connected interface streamlines rehabilitation strategy for clinicians and patients

Institution

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