

The cochlear implant is an electronic device that bypasses a non-functional inner ear by stimulating the hearing nerve with patterns of electrical pulses, so that sounds and speech can be perceived by profound hearing loss patients. The speech processing algorithm which converts speech to information about current pulses is called a speech strategy. The verification of new strategies with cochlear implant users is very time-consuming. So the simulations on a computer or subjective testing on normal hearing volunteers is used. If these results show that the new strategy could bring better speech and music performance, tests with cochlear implant users are accomplished. This paper presents the possibility of real time simulations with normal hearing volunteers.