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기타소속:

강연제목: 사지마비 환자를 위한 다기능 구강내 보조기기(MORA): 직관적인 올인원 솔루션을 향하여/ Multifunctional intraORal Assistive technology (MORA) for people with quadriplegia: toward the intuitive all-in-one solution.

#### **Abstract:**

We developed and designed a novel tongue-based advanced assistive technology accounted for the usability of the system, ensuring that it could manipulate multiple input/control modalities to execute multiple functions. Multifunctional intraORal Assistive technology (MORA) would increase intuitiveness and multimodal accessibility compared to existing ATs, which enhances the independency of people with quadriplegia and the quality of life for their family and caregivers as well as themselves. MORA can easily interface with a computer, a smartphone, and a wheelchair, using the same set of intuitive intraoral commands via a wireless control interface (as a form of necklace), and can be easily switched between devices, as a one-stop shop. MORA compensates the problems of existing tongue-operated ATs while taking advantage of the power of the tongue.

#### **Brief Biosketch**

Jeonghee Kim is currently an assistant professor at the Department of Electronic Engineering Hanyang University, and she was an assistant professor at the Department of Engineering Technology and Industrial Distribution at Texas A&M University. She received her Ph.D. in Electrical and Computer Engineering at Georgia Institute of Technology, in 2018. Her research interests are system design for biomedical and rehabilitation systems in real-time closed-loop and embedded mobile applications, human computer interaction, and assistive technologies.

김정희 박사는 현재 한양대학교 융합전자공학부 조교수로 재직 중이며, 이전에는 텍사스 A&M 대학교의 ETID 학과에서 조교수로 근무했습니다. 2018년 조지아 공과대학교에서 전기 및 컴퓨터 공학 박사학위를 받았으며, 주요 연구 관심사는 실시간 폐루프 및 내장형 모바일 애플리케이션에서의 생체 의학 및 재활 시스템 설계, 인간-컴퓨터 상호작용, 보조기기 개발 및 평가에 있습니다