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(57) Abstract :
MONOSCRIBE: REAL-TIME TEXT TRANSLATION AND DISPLAY SYSTEM FOR ENHANCED COMMUNICATION IN HEARING-IMPAIRED INDIVIDUALS ABSTRACT MonoScribe is an innovative assistive device designed to enhance communication for individuals who are deaf or hard of hearing by translating live spoken language into readable text. Integrated into wearable glasses, MonoScribe captures spoken input through an ESP32 module and processes it using advanced speech-to-text technology. The device supports multiple languages, allowing users to receive real-time translations tailored to their preferences. With an extended battery life, MonoScribe ensures long-term usability in various environments, including public events, workplaces, and emergencies. Users can operate the device in both online and offline modes, enabling seamless communication regardless of network availability. By bridging communication gaps, MonoScribe fosters a more inclusive society, empowering individuals with hearing impairments to participate fully in social interactions, education, and everyday activities. Through its user-friendly design and multifunctional capabilities, MonoScribe represents a significant advancement in accessibility technology for those with hearing challenges.

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