

Speech Quality Tests of In-Car Communication Systems

Udo Muesch, Frank Kettler, Marc Lepage

HEAD acoustics GmbH, 52134 Herzogenrath, Germany

Email: {Udo.Muesch, Frank.Kettler, Marc.Lepage}@head-acoustics.de

Web: www.head-acoustics.de

Introduction

In-Car Communication Systems (ICC systems) are intended to improve the communication between driver and co-driver in vehicles. The hardware effort can be limited as the components like microphones typically used for hands-free communication and rear seat loudspeakers are already available. The driver's voice is picked up by the microphone and played back via the rear loudspeakers. Such systems significantly improve communication quality especially at higher speeds assuming that the quality is not noticeably impaired by long propagation delay, un-natural sound of speech or acoustical feedback ("howling"). Such systems can be characterized by speech intelligibility and speech quality tests. The main focus of this contribution is the adaptation of an objective method to determine speech quality for such systems.

Find more event abstracts in our >> abstracts archive <<

HEAD acoustics GmbH
Ebertstraße 30a
52134 Herzogenrath, Germany