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Place:

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Title:

Automotive Hands-free Conversational Tests

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Abstract:

An extensive conversational test has been conducted in a complex in-vehicle hands-free (HFT) scenario using an HFT development board, installed in an interactive driving simulator and configured with typical hands-free impairments. A cordless phone was connected via a VoIP network on the other end of the connection. Invited expert and naïve test subjects assessed different conversational quality aspects, e.g. listening quality, listening effort, double talk capability, echo, interactivity and overall quality (see also DAGA 2024). The conversations were recorded in the VoIP network and are used now for further analyses. Test subjects' voices are analyzed in terms of speech activity, active speech level, distribution of speech activity, levels and occurrence of double talk. Furthermore, quality analyses can be applied, e.g. listening speech quality and listening effort based on single-ended quality prediction models. These results are presented, discussed and compared to the auditory ratings given by the participants in the conversational test.

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