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| INTERNATIONAL TELECOMMUNICATION UNION | **Focus Group OnCar Communication** |
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| **CONTRIBUTION** |
| **Source:** | Volkswagen AG, Technische Universität Braunschweig |
| **Title:** | Reference-free SNR Measurement Update for Narrowband and Wideband |

**Reference-free SNR Measurement Update for Narrowband and Wideband**

**(Signal Enhancement Subsystem)**

At the last meeting on 08.-09.12.2011 in Braunschweig, Germany, we presented a reference-free SNR measurement approach for the microphone section of the FG CarCOM draft “SubSystem Requirements for Automotive Speech Services”. At that time we also revealed the technical approach in detail. The Focus group discussed the topic and subsequently worked on Section 8.2.1.1.4.2 of the FG CarCOM draft (see v.14). In addition, FG CarCOM encouraged us to provide both a narrowband and wideband solution for the upcoming meeting in Japan.

In order to inform the group about the progress, we have worked on that and achieved a correlation of 0.98 or higher in both narrowband and wideband. See the attached extended paper abstract for more details [FODOR-REF-FREE-SNR], which will cover both narrowband and wideband.

Now we propose to update the current version of the FG CarCOM draft by including the reference [FODOR-REF-FREE-SNR] into Section 8.2.1.1.4.2 in place of the current “[xx]”.

The attached document “ITG2012\_Fodor\_Fingscheidt\_SNR\_summary.pdf” is an extended summary of a publication containing the reference-free SNR measurement approach for narrowband and wideband signals. This summary was submitted to the conference “ITG Fachtagung Sprachkommunikation” which is going to take place in Braunschweig, Germany in September 2012.

Attachment:

 

References:

[FODOR-REF-FREE-SNR-MEAS]: Fodor, B.; Fingscheidt, T. “Reference-free SNR Measurement

for Narrowband and Wideband Speech Signals in Car Noise”, *10th* *ITG Fachtagung Sprachkommunikation,* submitted, Braunschweig, Germany, Sep. 2012

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