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**Proposal of a Noise Distortion Measure**

**(Signal Enhancement Subsystem)**

In this contribution we describe an objective noise distortion measure, which we propose to include into an Annex of the FG CarCom draft “SubSystem Requirements for Automotive Speech Services”. This objective noise distortion measure focuses specifically on musical tones measurement. It has been proven to be very useful in optimizing the signal enhancement subsystem during the development and optimization process.

Three documents have been attached: “Recommendation\_Annex\_Proposal.docx” is the proposed Annex text for possible inclusion into the “SubSystem Requirements for Automotive Speech Services”. “LimitsMappingfunction.pdf” describes the procedure about how we obtained the values of the noise distortion measure for classification into quality of service (QoS) levels. It also contains a mapping function of the raw objective noise distortion measure to the absolute category rating (ACR) of the perceived amount of musical tones. The draft version of our submitted paper for the coming ICASSP 2012 is attached as “ICASSP2012\_Submission.pdf”. This paper describes the proposed noise distortion measure in more detail, and is referenced in the proposed Annex.

Attachment:

  

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