Advanced Signal Processing Seminar 2, SS 2015-
Bandwidth Extension of Audio/Speech Signals

P. Mowlaee and G. Kubin

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1 Seminar Topics

The following topics are selected for the seminar presentation (references are provided in front of each item):

1. Fundamentals and Methods
   • Bandwidth Extension for excitation/envelope [1, 2, 3]
   • Low/High bandwidth extension of speech signals [4, 5, 6, 7, 8]
   • Evaluation of bandwidth extension methods [9, 10]

2. Other Applications
   • Bandwidth extension for noise reduction [11]
   • Bandwidth extension for speech/speaker recognition [12, 13]
   • Bandwidth Extension with side information [14, 15, 16, 17]
   • Bandwidth extension of music signals [18, 3]
   • Bandwidth extension using deep neural networks [19, 20]

References


