

Phonetisches Kolloquium

Mittwoch, 18.07.2018, 14 Uhr c.t., Geb. C7.2, R. 5.09

**Manfred Pützer** (UdS) und **Wolfgang Wokurek** (Universität Stuttgart)

**Phonation quality detection on the Saarbrücken voice database  
using harmonic spectrum-based parameters: current status and future  
perspectives**

In this study, voice quality parameters (VQPs) based on amplitude measurements in the harmonic spectrum are surveyed on the "Saarbrücken Voice Database". A trapezoid is used as a simplified version of the volume velocity contour at the vocal folds. It is used to demonstrate the VQPs open quotient and rate of closure in time and frequency domain. The VQPs are based on spectral decay gradients to reduce their fundamental frequency dependence. Multivariate analysis of variance (MANOVA) shows significant differences between voice quality parameter means of different speaker groups (group of male and female speakers, group of healthy and pathological speakers, different age groups of speakers). On the basis of these results future perspectives will be discussed.