

Lobachevskii Journal of Mathematics 2015 vol.36 N4, pages 496-502

Classification of speech files by waveforms

Latypov R., Nigmatullin R., Stolov E.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2015, Pleiades Publishing, Ltd. Parameters are proposed that characterize the form of individual signals of a speech file, such as the position of quantiles in a selected fragment and the parameters of parabolas that approximate the area under a curve. It is shown that the distribution of these parameters can be used for automatic discrimination of files containing speech in Tatar and Russian languages.

<http://dx.doi.org/10.1134/S1995080215040265>

Keywords

approximation by parabolas, automatic discrimination of languages, form of a file fragment, quantiles