

Abstract

A voice noise reduction method, a model training method, an apparatus, a device, a medium, and a product. The voice noise reduction method comprises: using a preset voice activity detection algorithm to detect a current audio frame to be processed, and obtaining a corresponding algorithm activity detection result [101]; merging a model activity detection result corresponding to the previous audio frame with an algorithm activity detection result corresponding to the current audio frame, obtaining a target activity detection result corresponding to the current audio frame, wherein the model activity detection result is outputted by a preset voice noise reduction network model [102]; based on the target activity detection result, performing noise estimation and noise elimination on the current audio frame, obtaining an initial noise reduction audio frame [103]; and inputting the initial noise reduction audio frame into the preset voice noise reduction network model so as to output a target noise reduction audio frame and also a model activity detection result corresponding to the current audio frame [104]. The use of the aforementioned solution can enhance a voice noise reduction effect, and the stability and robustness of the voice noise reduction solution are improved.

Fig. 1