CLAIMS

【Claim 1】

An electronic device (100) comprising:

a microphone (110);

a memory (120) storing at least one instruction; and

a processor (130) configured to execute the at least one instruction,

wherein the processor (130), by executing the at least one instruction, is configured to:

obtain first voice data input via the microphone (110),

obtain second voice data by inputting the first voice data to a first model (10) trained to enhance sound quality,

obtain a weight by inputting the first voice data and the second voice data to a second model (20), wherein the weight is a parameter to determine input data to be input to a third model (40), and

identify~~, based on at least the first voice data and/or on the second voice data,~~ input data to be input to the third model (40) using the weight~~.~~, at least by:

based on the weight being greater than a first threshold value, identify the second voice data as the input data,

based on the weight being greater than a second threshold value and less than the first threshold value, linearly combine the first voice data and the second voice data based on the weight and identify the linearly combined value as the input data, and

based on the weight being less than the second threshold value, identify the first voice data as the input data,

wherein the first threshold value is a value greater than the second threshold value.

【Claim 2】

The device according to claim 1, wherein the processor (130) is further configured to obtain the weight using the first voice data, the second voice data, and an estimated value of an error between the second voice data and clean voice data corresponding to the first voice data.

【Claim 3】

The device according to claim 1, wherein the processor (130) is further configured to: linearly combine the first voice data and the second voice data based on the weight; and identify the linearly combined value as the input data.

【Claim 4】

The device according to claim 1, wherein the processor (130) is further configured to identify one of the first voice data and the second voice data as the input data based on the weight.

【Claim 5】

The device according to claim 4, wherein the processor (130) is further configured to: