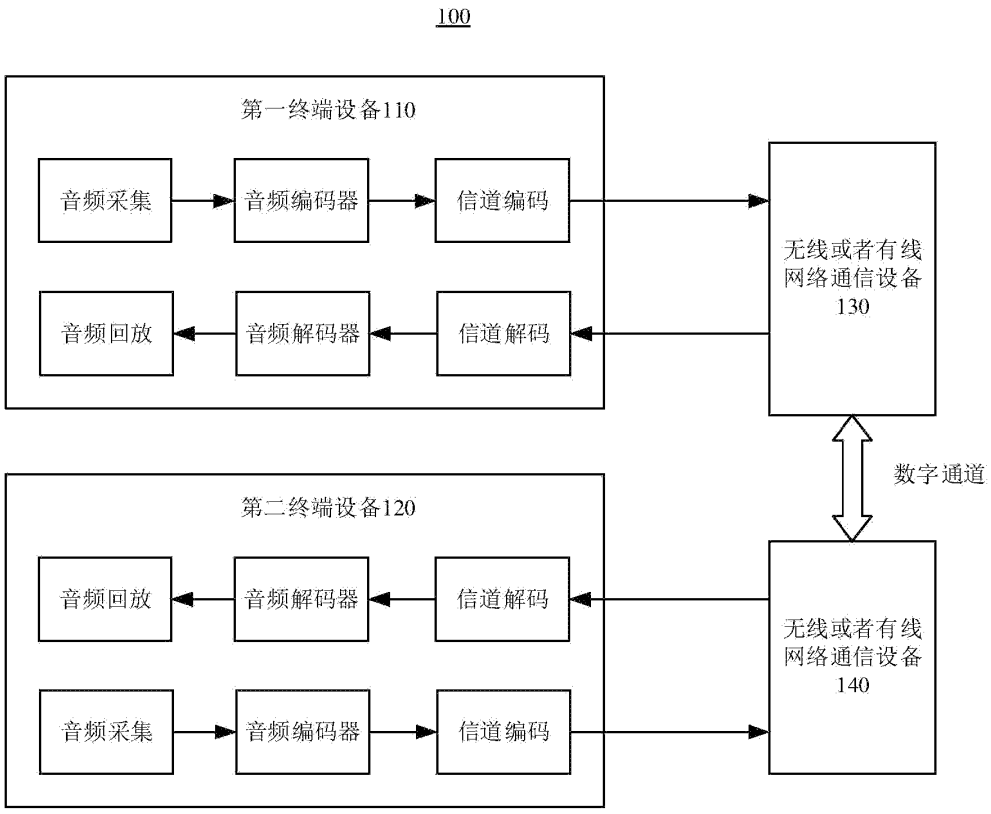
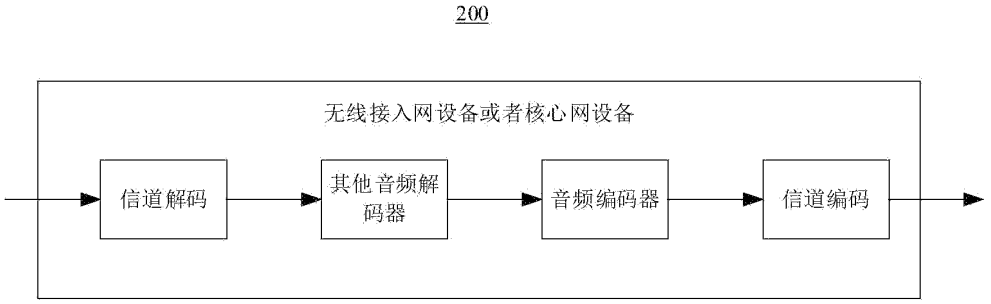
WO 2025/161505 PCT/CN2024/125533

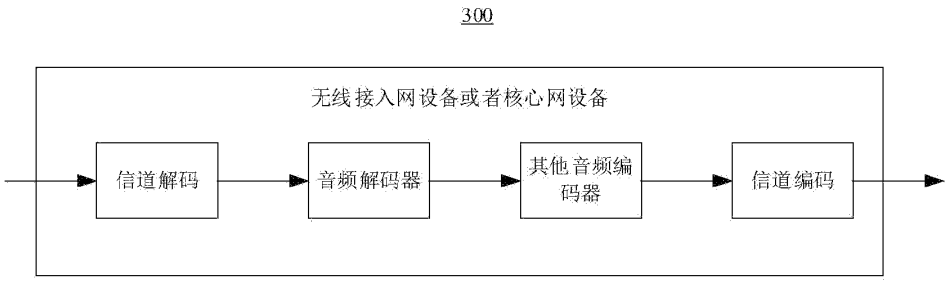
[图1]



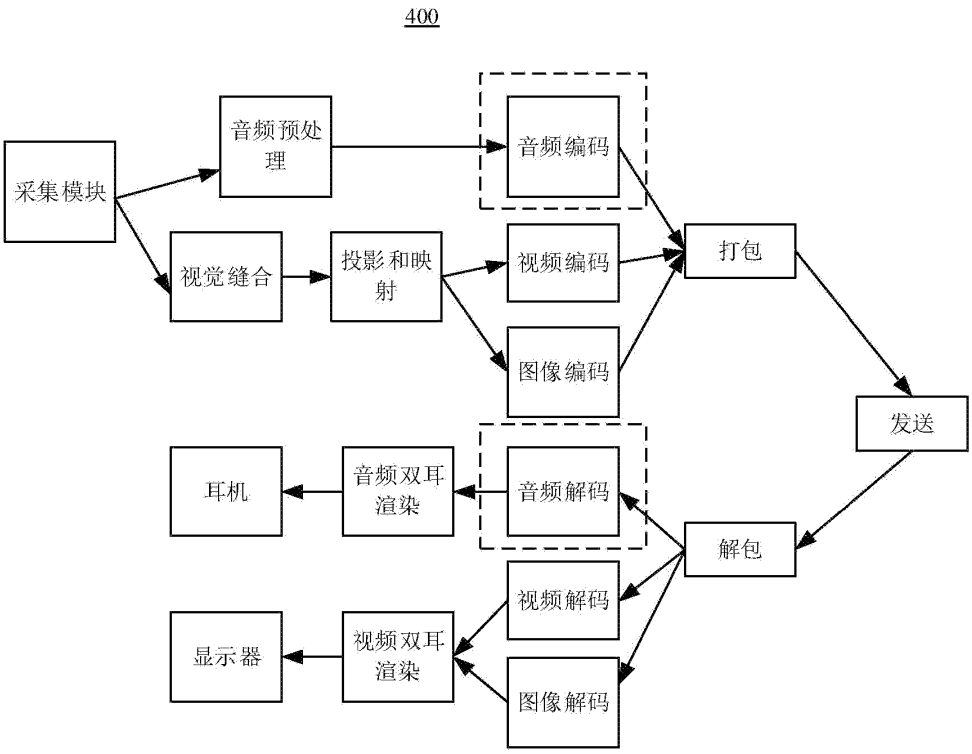
[图2]



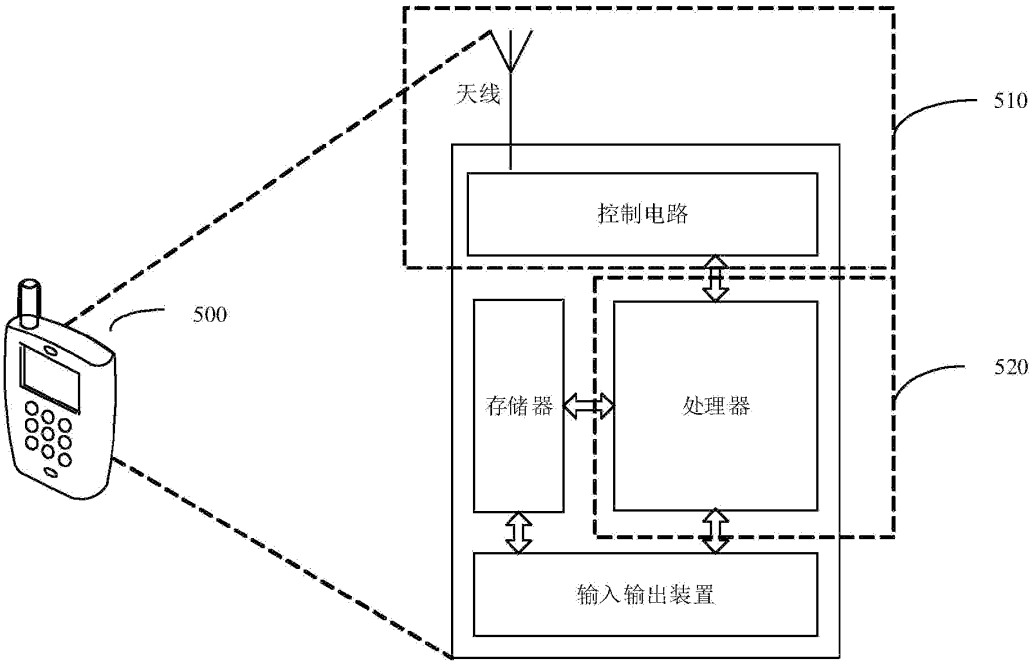
[图3]



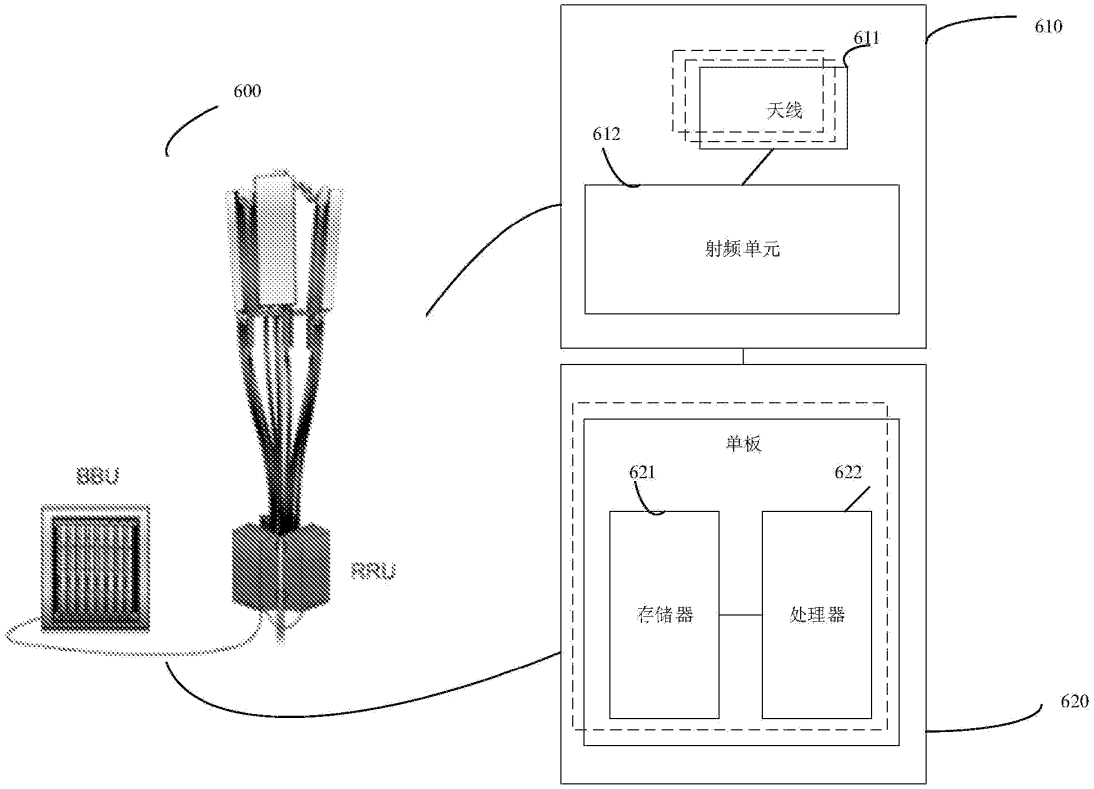
[图4]


400
采集模块
音频预处理
音频编码
视觉缝合
投影和映射
视频编码
图像编码
打包
发送
耳机
音频双耳渲染
音频解码
解包
视频解码
显示器
视频双耳渲染
图像解码

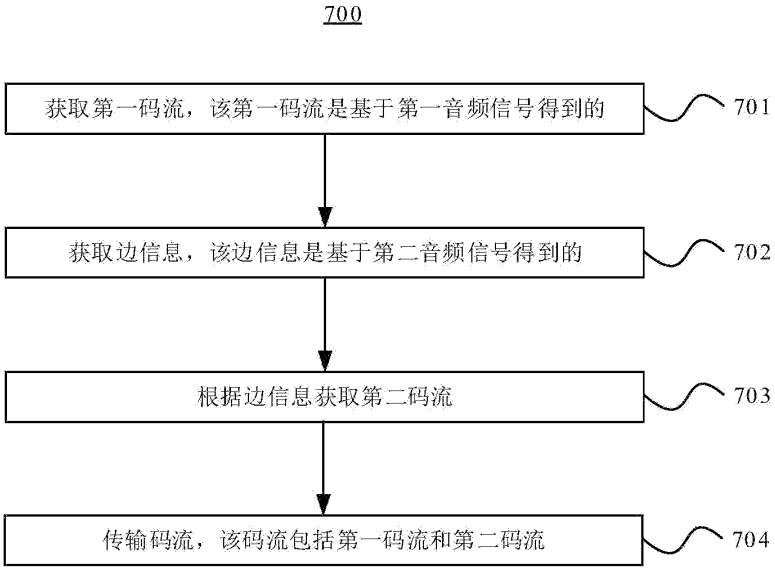
[图5]


天线
510
控制电路
500
存储器
处理器
520
输入输出装置

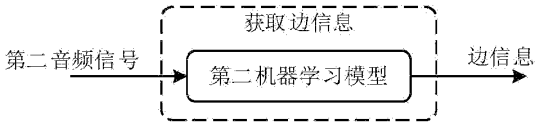
[图6]


600
611
610
天线
612
射频单元
单板
621
622
存储器
处理器
620
BBU
RRU

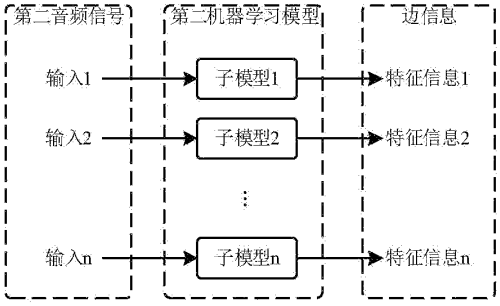
[图7]


700
获取第一码流，该第一码流是基于第一音频信号得到的
701
获取边信息，该边信息是基于第二音频信号得到的
702
根据边信息获取第二码流
703
传输码流，该码流包括第一码流和第二码流
704

[图8a]


获取边信息
第二音频信号
第二机器学习模型
边信息

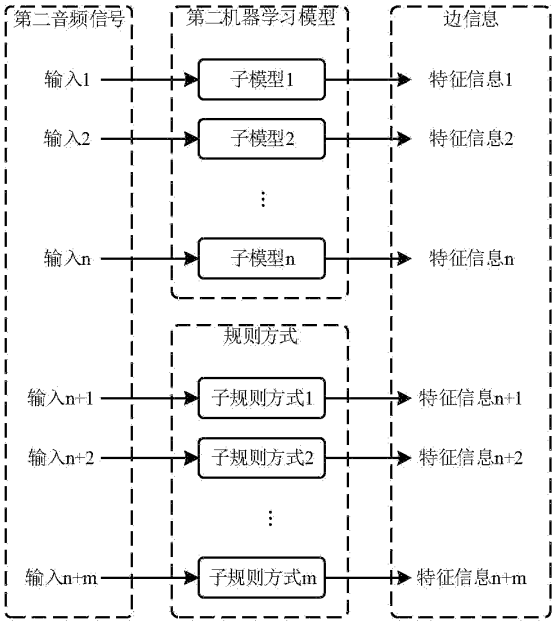
[图8b]



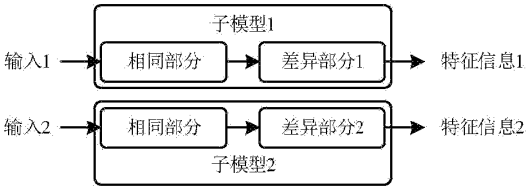
[图8c]



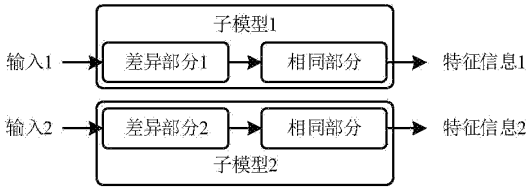
[图8d]



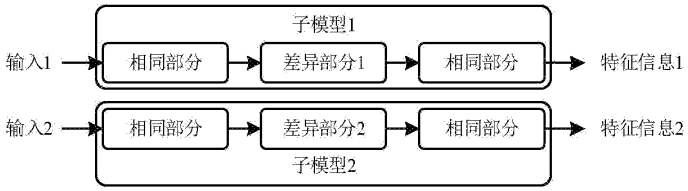
[图9a]



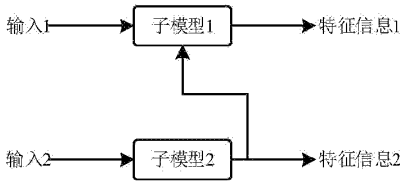
[图9b]



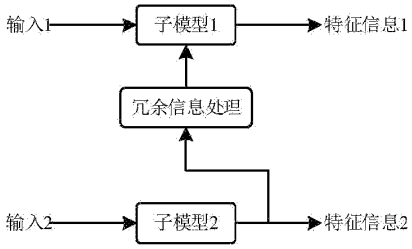
[图9c]



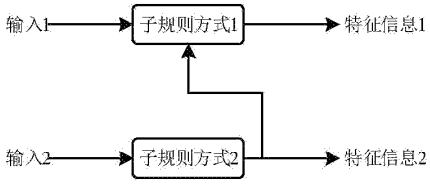
[图10a]



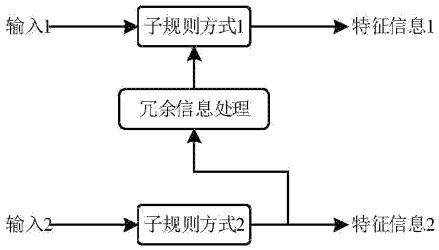
[图10b]



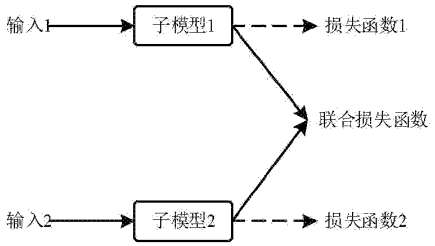
[图11a]



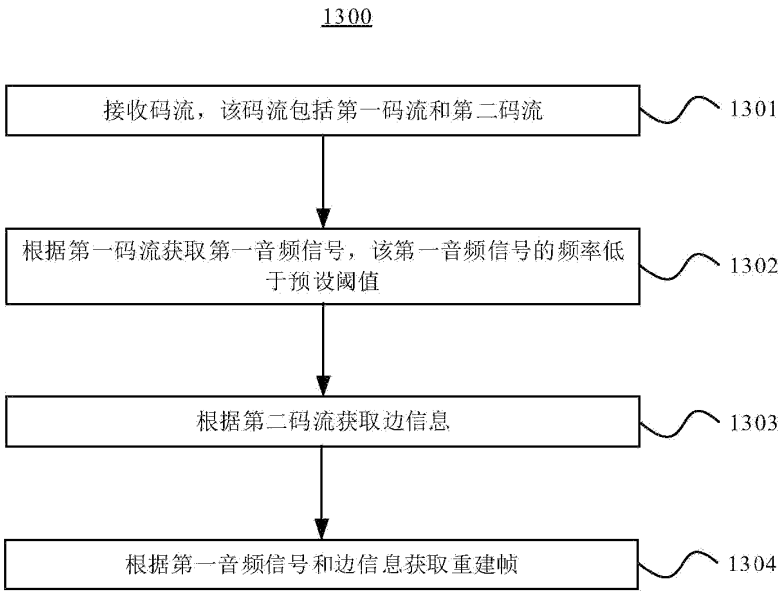
[图11b]



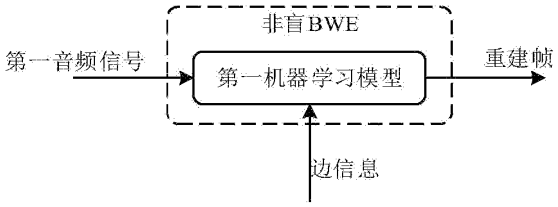
[图12]



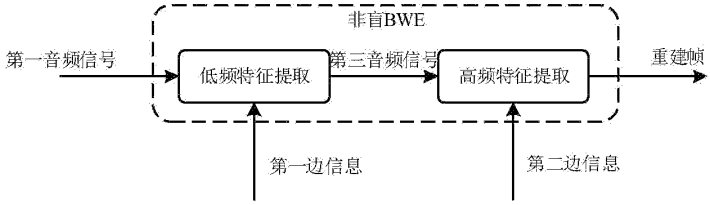
[图13]



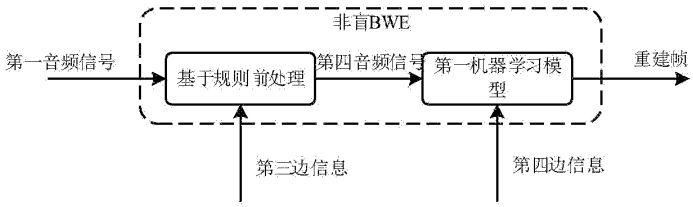
[图14a]



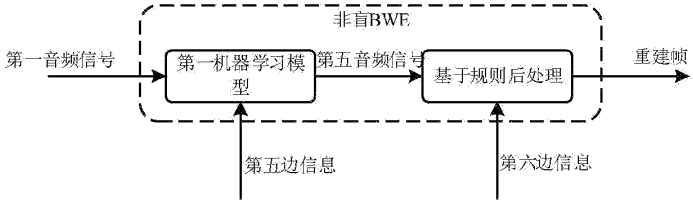
[图14b]



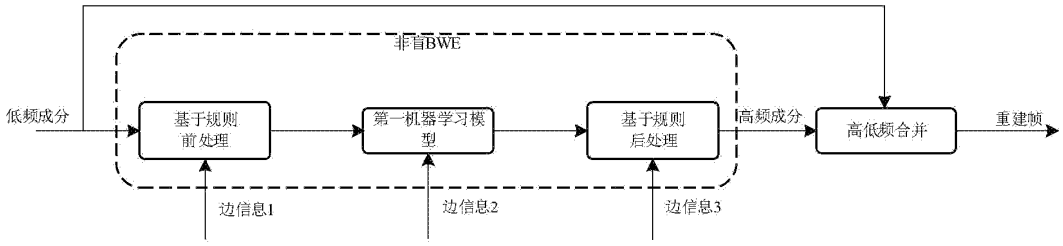
[图14c]



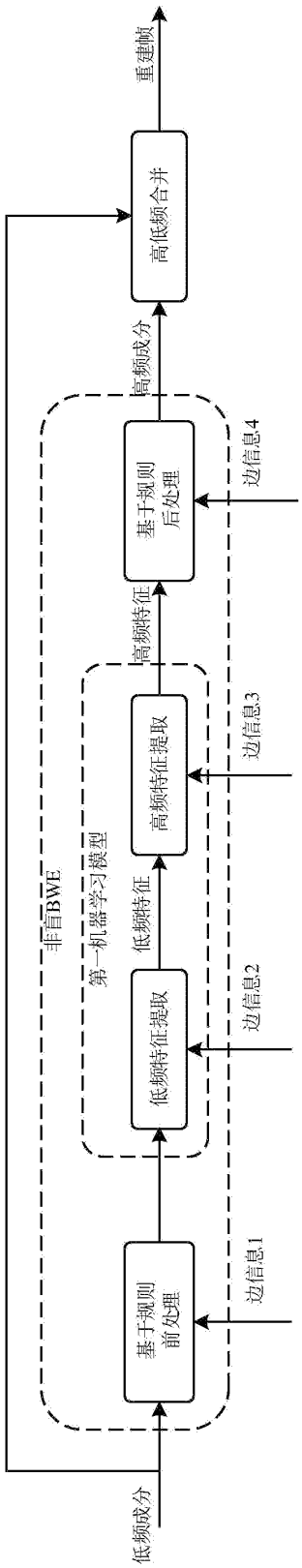
[图14d]


非盲BWE
第一音频信号
第一机器学习模型
第五音频信号
基于规则后处理
重建帧
第五边信息
第六边信息

[图14e]

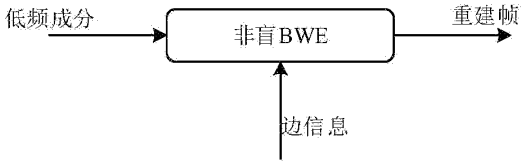

非盲BWE
低频成分
基于规则前处理
第一机器学习模型
基于规则后处理
高频成分
高低频合并
重建帧
边信息1
边信息2
边信息3

[图14f]

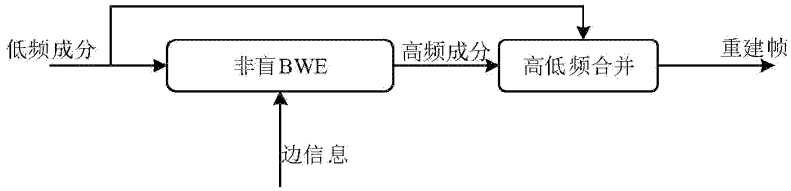


细则 26,
02.12.2024

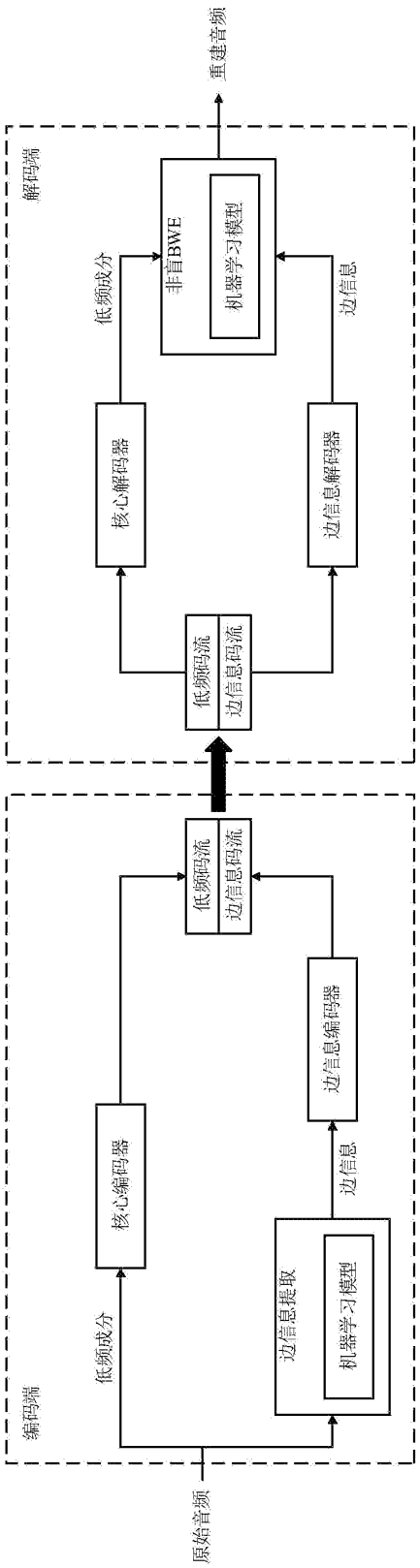
[图15a]



[图15b]



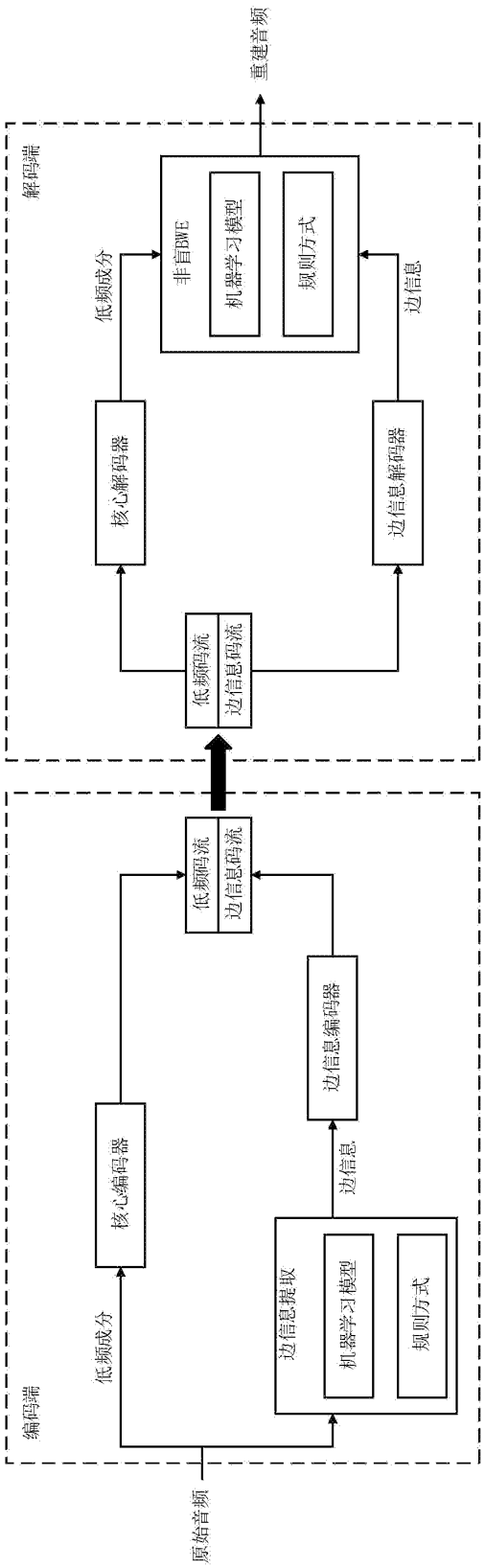
[图16]



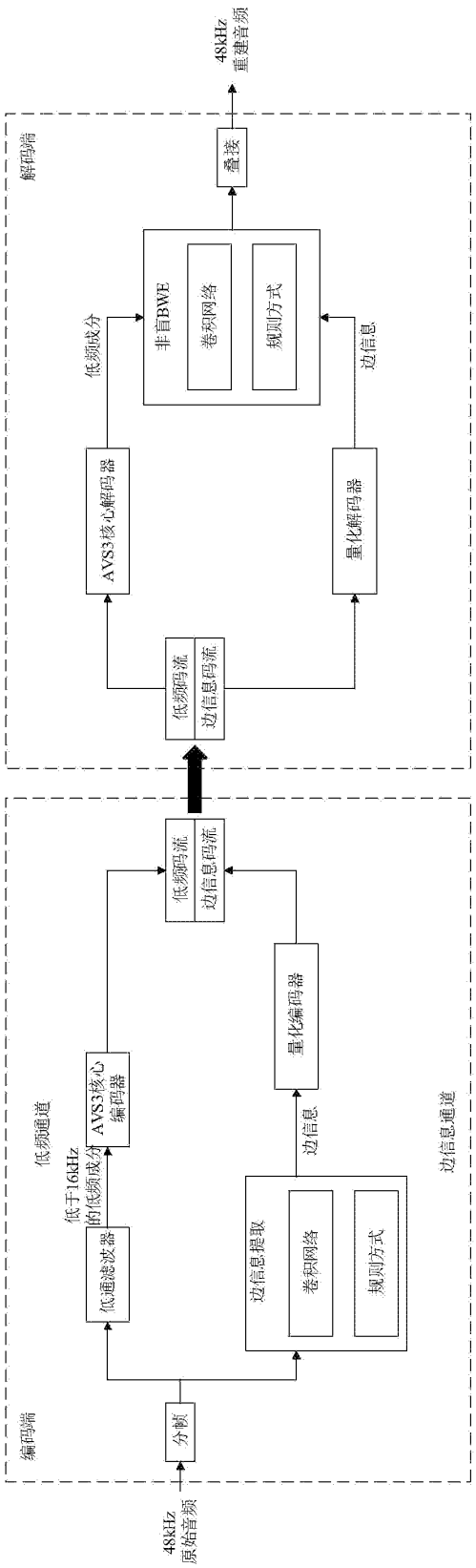
细则 26,
02.12.2024

细则 26,
02.12.2024

[图17]



[图18]



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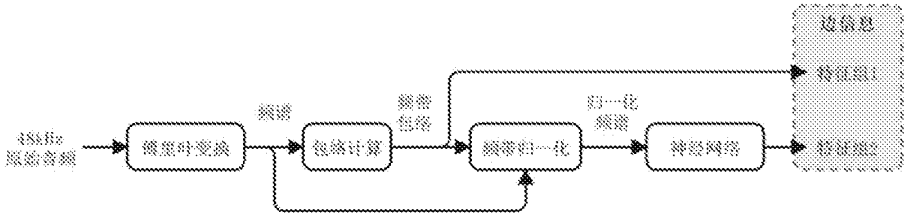
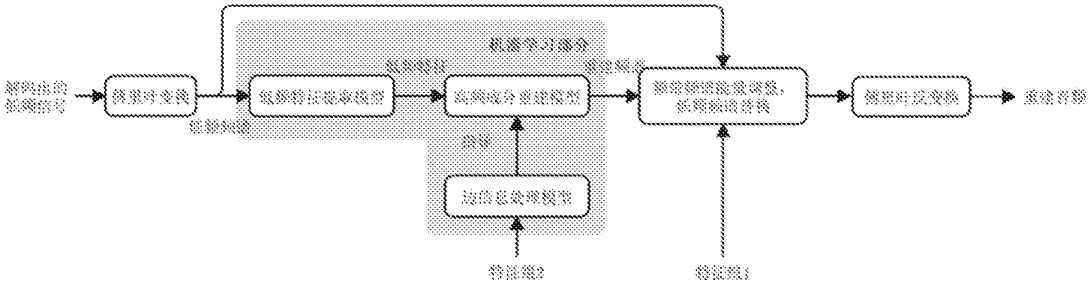
02.12.2024

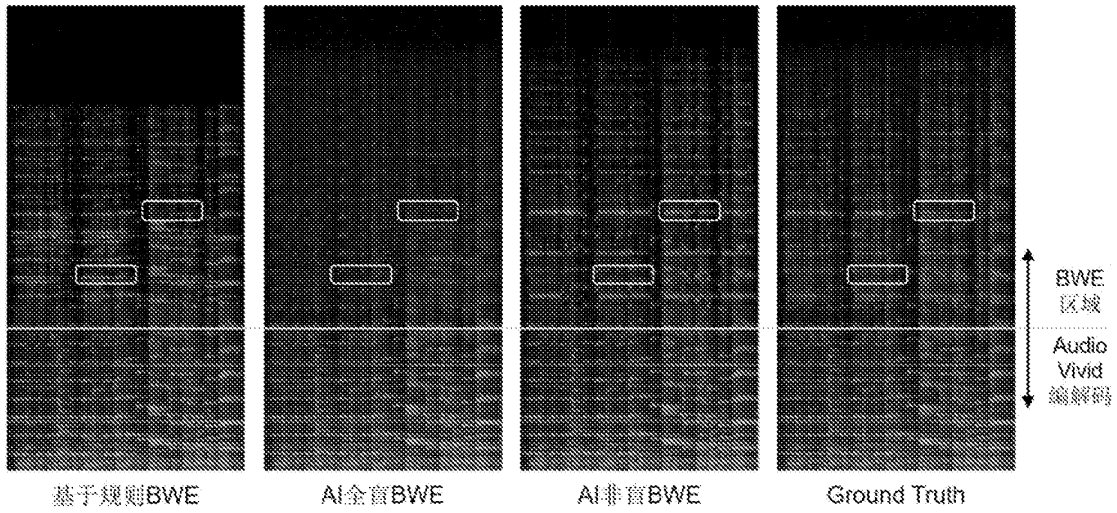
[图19]


边信息
特征组1
特征组2
频谱
频带包络
归一化频谱
频带归一化
神经网络

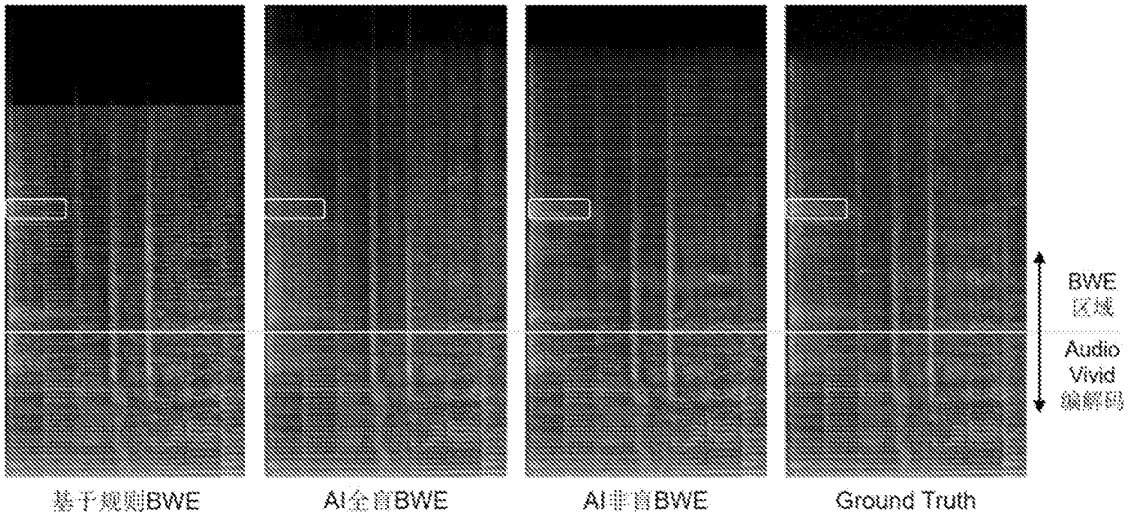
[图20]


机器学习部分
频谱
频谱
频谱
频谱
边信息处理模型
特征组2
特征组1

[图21]

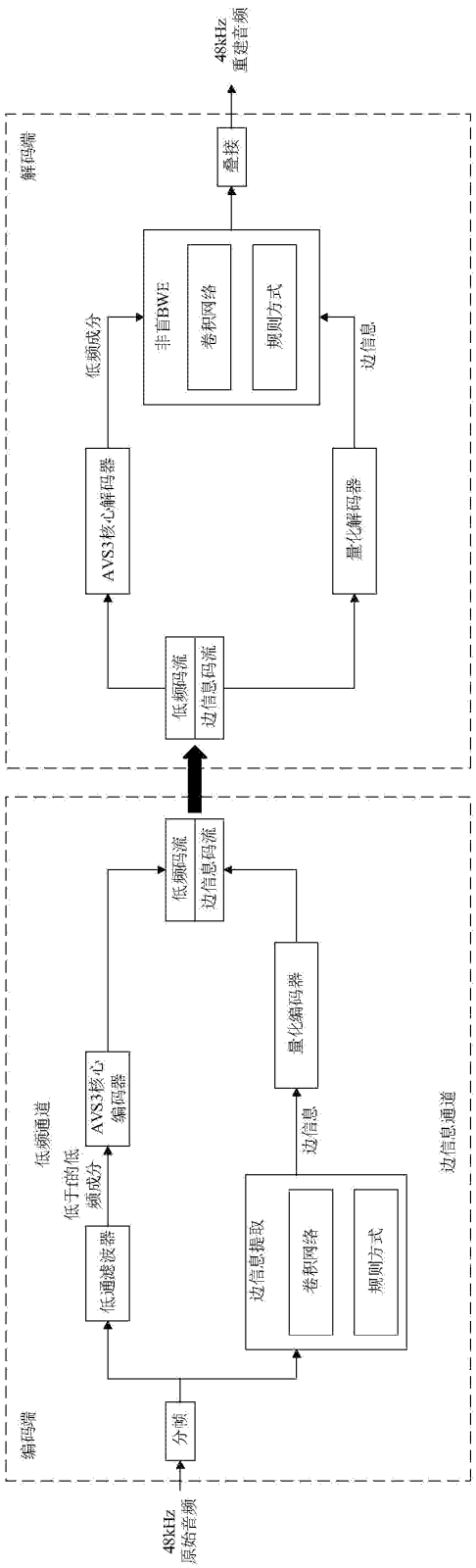

BWE
区域
Audio
Vivid
编解码
基于规则BWE
AI全盲BWE
AI非盲BWE
Ground Truth

[图22]

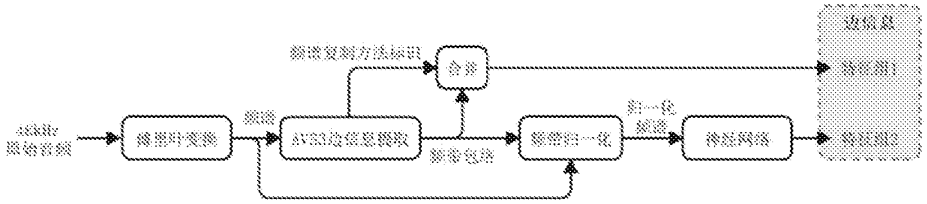

BWE
区域
Audio
Vivid
编解码
基于规则BWE
AI全音BWE
AI非音BWE
Ground Truth

细则 26,
02.12.2024

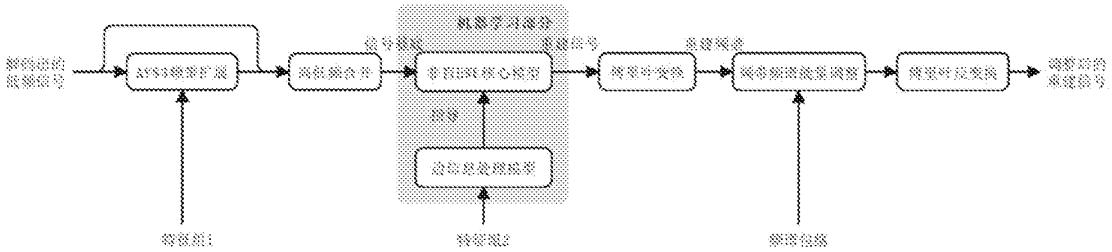
[图23]



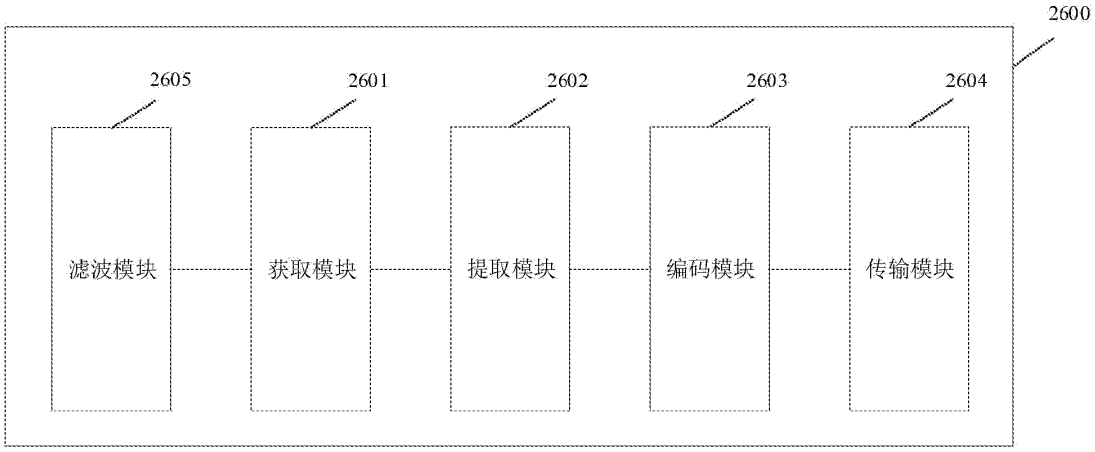
[图24]



[图25]



[图26]



[图27]

