ABSTRACT

SYSTEM AND METHOD FOR DISTRIBUTED TEXT-TO-SPEECH SYNTHESIS AND INTELLIGIBILITY

A method and system for distributed text-to-speech synthesis and intelligibility, and more particularly to distributed text-to-speech synthesis on handheld portable computing devices that can be used for example to generate intelligible audio prompts that help a user interact with a user interface of the handheld portable computing device. The text-to-speech distributed system 70 receives a text string from the guest devices and comprises a text analyzer 72, a prosody analyzer 74, a database 14 that the text analyzer and prosody analyzer refer to, and a speech synthesizer 80. Elements of the speech synthesizer 80 are resident on the host device and the guest device and an audio index representation of the audio file associated with the text string is produced at the host device and transmitted to the guest device for producing the audio file at the guest device.

FIG. 4