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(57) Abstract :

SYSTEM AND METHOD FOR VISUAL RENDERING BASED LEARNING AID FOR HEARING IMPAIRED STUDENTS

Learning environment for the hearing impaired students is more challenging. Hearing impaired students, commonly acquire the same level of mental capability as the normal hearing students in terms of learning ability and lack only in their hearing ability. This visual rendering based learning aid provides a computer based integrated learning environment through which the hearing impaired students can view, understand and learn the subjects. Classroom live lecture of the teacher is converted into text using speech-to-text conversion and displayed in the text frame; Images and videos related to the topic of discussion can be uploaded in the image and video frames to support the teacher to explain the topic with ease and to aid the hearing impaired students to understand the contents. This system supports multiple spoken languages that can be selected by the teacher for a particular session. Converted text and the associated summary generated by the system are saved in the database in text format for later reference by the teacher and the hearing impaired students. Students with hearing disability can understand and learn better with the assistance of visual aids.

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