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May 2021

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Defensive Publication

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Recommended Citation

Publication, Defensive, "Signaling and Displaying Emotion and Other Intent with CLOSED CAPTIONING", Technical Disclosure Commons, (May 25, 2021)
https://www.tdcommons.org/dpubs_series/4320



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5/20/2021

Signaling and Displaying Emotion and Other Intent with CLOSED CAPTIONING

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SYP337182

ABSTRACT

This invention uses newly defined mechanisms, fields and character glyphs that enable closed captioning to convey emotional and other intent.

BACKGROUND

Captioning can convey the words spoken, but there are no tools that can be used to convey the emphasis, emotional content, and other features of language usage beyond simple word choice. A lot of the communication nuances are lost.

DESCRIPTION

The invention uses newly defined mechanisms, fields and character glyphs that enable closed captioning to convey emotional and other intent.

The captioning data extension is described in this disclosure.

See RELATED INNOVATION #1 below, in addition to the mechanisms described there, since closed captioning is already text. It is envisioned that some of the emotional data could be displayed as punctuation, font color and style, as well as symbols, and emojis (as disclosed in Innovation #1 below).

The invention can benefit from SPEECH SYNTHESIS MARKUP LANGUAGE (SSML). Instead of sending this to a speech synthesizer, the mark-up will need to display something in the text for the user to

see. The mark-up itself is not displayed. Among other things, the SSML is used by the speech synthesizer to add 1) prosody, 2) emphasis, 3) pauses, etc... To show these things visually instead of announcing them through the speech synthesizer, the following could be done: The boldness of words could be adjusted to convey sound volume... VERY BOLD, BOLD, NORMAL, THIN. This can be done through different character sets - Arial, Arial Bold, Arial lite, etc. . . Emphasis on certain vowels or consonants could be accomplished by doing the same thing to certain letters of a word. Pauses could be announced and written as {pause} in the closed captioning window. Other text that might be used could {sigh}, {German accent}, {heavy breathing}, {slow breathing}; etc. ...

In lieu of modifying the text, as an alternative, it is possible that a type of emoji could be used to signal loudness, normal, or softness in sound volume. Existing emojis could be used or developed for the other nuances conveyed.