March 02, 2016

SPELLING SENSITIVE KEYBOARD

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Recommended Citation
Barkai, Gilad, "SPELLING SENSITIVE KEYBOARD", Technical Disclosure Commons, (March 02, 2016)
http://www.tdcommons.org/dpubs_series/169

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SPELLING SENSITIVE KEYBOARD

ABSTRACT

A device and method reduce repetitive spelling mistakes due to mis-typing of neighboring keys. The disclosed keyboard device or application makes specific keys more visible to the user, thus adding a visual guide to the keys which are expected to be pressed according to predicted spelling. The spelling sensitive keyboard could result in good quality text by reducing the amount of spelling mistakes made by the user.

BACKGROUND

Users usually make repeated spelling mistakes or typographic errors, for example, clicking or typing a neighboring key to the intended key in a physical or virtual keyboard. This ‘shift’ in position is usually caused by holding the phone in a specific orientation, using only one hand to type, small screen size, etc. Current technology alerts the user about spelling mistakes in already typed text, for example by marking them with a red underline. But this solution would not prevent the same or repetitive spelling mistakes occurring while typing. This disclosure provides an efficient method of avoiding spelling mistakes by visually distinguishing neighboring keys in the keyboard.

DESCRIPTION

A device and method decrease repetitive spelling mistakes due to mis-typing of neighboring keys. The disclosed keyboard device or application makes specific keys more visible to the user by adding a visual guide to the keys which are expected to be pressed to spell a predicted word. The keyboard records and analyzes specific patterns of typographical errors.
made by the user over a period of time. Based on the recorded patterns, the application predicts the sequence of keys to be typed and provides a visual aid to clicking specific keys in preference to others by the user.

The spelling sensitive keyboard application uses the following processes to identify repetitive spelling mistakes:

A. Analyzing the text entered by the user. The text could be in the form of plain text or software code or contact names.
B. Finding patterns of repeated mistakes, e.g. in some instances, the letter R is typed instead of T.
C. Measuring the impact of different patterns over a period of time (e.g. a minute, a day, or a week).
D. Selecting the significant number of (“N”) such patterns.
E. Marking the keys based on the selected pattern, for example, by changing the foreground color, background color, boldness of the font, backlight, etc., so the correct keys could be made more visible or vivid for the user.

The disclosed device and method allow the user to pay more attention or focus on the problematic key combinations contributing to repetitive typographic errors. The spelling sensitive keyboard could result in good quality text by reducing the amount of spelling mistakes made by the user. It may also be an important aspect for visually impaired user as part of an accessibility package.