FUJITSU Software

Inspirium handwriting recognition library

Recognizing Chinese/Japanese handwriting even in a rough way

Interface for Chinese/Japanese handwriting input on touchscreen

Features

Highly-accurate recognition.
- High accuracy is achieved by the hybrid method of recognizing character shape/stroke order, and the automatic correction with context probability of correlation between previous or next character.

One character in a frame area, and multiple characters in 1 line (*1).
- Two types are available: recognition for handwriting strokes in a frame area as one letter, and for multiple characters handwritten in one line.

Variety of implementation examples.
- Smartphones, tablets, single-board devices (with no OS).

(*1) “Multiple characters in 1 line” type of handwriting recognition is only for Japanese language.

Application examples

Inspirium handwriting recognition library is applicable to the following devices.
- Portable devices, such as smartphones, tablet terminals, e-book browsers, and electronic dictionaries.
- Car navigation system
- Commercial equipments such as MFDs, handy terminals, ticket machines, and POS terminals.

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Functions/configuration

Inspirium handwriting recognition library improves usability in application programs with the following functions.

- Learning function:
  The function memorizes user-input characters and their expected recognition result. Even if initially recognized incorrectly, it is recognized correctly next.
- Context sensitive adjustment function:
  High accurate recognition is achieved by correcting words automatically based on the context correlation between previous or the next character.
- Word prediction function:
  In cooperation with the predictive text-input function in Kana-Kanji conversion, handwriting operation is reduced by showing candidate words when one character is input.

Diagram below depicts the configuration of the system in which the product is embedded.

Specifications

| Platforms          | Applicable to any OS and CPU.  
|                   | [Applicable OS]: Android, iOS, Windows Mobile®, etc.  
|                   | [Applicable CPU]: ARM, etc.  
| Resource requirement | Japanese - Standard version --- Approx. 2MB  
|                   | [Recognition:341KB, dictionary:1.2MB(JIS 1+2), contextual process:476KB, and work area]  
|                   | Japanese - Memory saving version --- Approx. 1.4MB  
|                   | [Recognition:341KB, dictionary:0.7MB(JIS1), contextual process:476KB, and work area]  
|                   | Chinese version --- Approx. 9.5MB  
|                   | [Recognition:550KB, dictionary:8.3MB(GBK), contextual process:525KB, and work area]  
|                   | For memory, adjustment is available in accordance with device's requirement.  
|                   | Japanese/Chinese version --- Approx. 10.7MB  
|                   | [Recognition:550KB, dictionary:9.5MB(JIS level-1/-2 + GBK), and work area]  
| Support languages | Japanese: Kanji characters(JIS level-1/-2 Kanji sets), Hiragana, Katakana, alphanumeric characters  
|                   | Chinese: Traditional and simplified Chinese(GBK22,866 characters), alphanumeric characters  
|                   | JIS level-3/-4 Kanji sets and picture characters(emoticons) are available by customized support.  

Product and service

Consulting, services for customizing, and customized support is available.

| Software development kit | We offer a set of software needed for implementing Inspirium handwriting recognition library to operate on customer's devices, and development license.  
| Runtime license | License necessary to deliver devices equipped with Inspirium handwriting recognition library.  
| Customization | We offer Inspirium handwriting recognition library which is customized in accordance with customer's devices and requirements.  
| Support | Support for the product’s fault (if any) and Q&As, etc.  

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Contact

Fujitsu Limited
Shin-Yokohama TECH Bldg. 3-9-18 Shin-Yokohama, Kohoku-ku , Yokohama  222-0033, Japan
E-mail:inspirium@cs.jp.fujitsu.com