

Title	漢字形状記憶の損失を防ぐ漢字入力方式に関する研究
Author(s)	魏, 建寧
Citation	
Issue Date	2013-03
Type	Thesis or Dissertation
Text version	author
URL	http://hdl.handle.net/10119/11286
Rights	
Description	Supervisor: 西本一志, 知識科学研究科, 修士

An Input Method of Chinese Characters for Preventing Character Amnesia

Jianning Wei

School of Knowledge Science,
Japan Advanced Institute of Science and Technology
March 2013

Keywords: input method, character amnesia, replace, fake font, benefit of inconvenience

In the digital era, there is almost no opportunity for us to do handwriting. Instead, we do it on the electronic input systems installed in computers and mobile phones. The Chinese character input system is different from that of segmental script like English. The main input system we are using is based on Pinyin, which converts pronounce into character. Since we overly depend on this system, it causes the problem of forgetting or wrong memory of the exact shape of a Chinese character. As a result, the character amnesia problem is becoming more and more serious.

To solve the problem, I propose a new input system based on the design policy of “benefit of inconvenience”. In this system, it provides not only the right character fonts but also the fake ones. However fake fonts here are not the existing fonts, but the one created by using TTEdit, which has subtle difference from the right font, like “駐輪場” and “駐輪場”. By doing this, I want to achieve two aims; one is to break our over-reliance on the input method, the other is to force user to verify the characters he has inputted.

As it is difficult to change functions of input system itself, like MS-IME, I propose a system based on text-editor named Gestalt Imprinting Method (G-IM). On which I append a function to replace the confirmed character to the fake font

randomly which has the same Character code as the right one. If user realizes it, he can delete and retype it, then the fake font will turn to the right one. If user doesn't realize there is still a fake font, system will warn you and even before you totally correct the fake fonts, you cannot save this article.

In order to evaluate the effectiveness of the proposed system, I made a comparison experiment during G-IM group, regular input method group and handwriting group. I evaluate the Chinese character test scores between before and after using the three methods. As a result, the grade point average of G-IM group is much better than other groups. Besides, from the questionnaire I evaluate that users pay more attention on the character by using G-IM far more than by using the regular input method. Therefore I conclude the efficacy of G-IM for preventing character amnesia.