INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: INFORMATION STRUCTRES, DOCUMENTATION AND GRAPHICAL SYMBOLS

TC 3 Workshop 2008

Proposal of a new graphical user interface (GUI) to IEC 60417 – graphical symbols search by a handwritten shape

In collaboration with Higaki Lab., Chiba University, a new GUI had been developed for an additional user interface for searching a collection of graphical symbols. The GUI was proposed to be incorporated as future added value in such as IEC 60417, if it were appropriate.

Objectives
It was aiming at disposal by ordinary users who might have less knowledge on the collection and technical details on graphical symbols search.

Technical outlines
The GUI had been made available on ordinary personal computers with a Web browser Flash Player added on, which provided a virtual tablet to be used for depicting a shape of graphical symbols to be searched. Retrieval process from a server of graphical symbols was dynamic and hierarchical search was possible.

Behind the curtain, such components were activated when the GUI was invoked:

- A database of features in XML format extracted from the target collection of graphical symbols;
- A software module in SWF (shock wave flash) format downloaded from the server; and
- A search engine as extension and customization of an open source called Tomoe

1. A handwritten search engine, an abbreviation of “Tegaki Online MOji-ninshiki Engine” or handwritten online character recognition engine.

Several configurations would be possible for an actual application in terms of a server and a GUI terminal (PC) collaboration. Without the server configuration was also possible, where CD-ROM on PC might be used.

Brief demonstration at TC 3 Workshop 2008
It was planned to make a demonstration of the GUI using a restricted and limited version prepared only for demonstration purposes, in agreement with secretariat SC 3C, placed at http://gss.yas.tu.chiba-u.ac.jp/

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