Universal Multiple-Octet Coded Character Set UCS

ISO/IEC JTC1/SC2/WG2 IRG N2249
Date: 2017-10-13

Source:	China
Meeting:	IRG#49, San Jose, USA
Title:	Activity Report
Status:	Member's submission
Actions required:	FYI
Distribution:	IRG
Medium:	Electronic
Pages:	2

1. Hosting IRG#50 in Beijing

The Peking University confirms to host the IRG#50 in Beijing, 2018-05-21/25. (IRGN2266)

2. Submission of WS2017

China submitted 969 characters，390 of them are Zhuang characters (壯字), the others are used for place names, person names, terms in Sciences and Technologies, etc. (IRGN2228)

3. Progress of the Project "Chinese Characters Repertoire" (中華字庫)

The intermediate fonts of the production of 1 million hanzi characters in the Project "Chinese Characters Repertoire" continue its large-scale operation and promotion, 6 batches of the intermediate fonts were completed in the past 4 months. Therefore, nearly 570 thousand characters are completed so far. The developers of these fonts believe they gained rich experience of normalizing character shapes following related regularizations of Chinese mainland.

4. Technical progress of ISO 10646 implementation

a) Cloud based font service
Funded by The Project Chinese Characters Repertoire, the Institute of

Software of Chinese Academy of Sciences (ISCAS) has achieved full supporting for the plane 0 - 16 and IVS of UCS. ISCAS has constructed a font service mechanism based on cloud computing. By using this font service mechanism, any application and web page can get Chinese font data from the cloud by calling a particular API without having to install the fonts locally.

b) Handwriting fonts

The Peking University proposed a style-learning based automatic generation algorithm for Chinese handwriting fonts. Given a small number (less than 400) of handwritten samples of a user, the proposed algorithm can automatically generate the complete font contains all character of CJK and Ext. A, B in the user's similar handwriting style. At the same time, the corresponding compressed font with tiny quality loss, which only requires 25% storage of the original font, can also be automatically built.