Universal Multiple-Octet Coded Character Set UCS

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1. Management Regulation on the Use of Languages in Information Technology Products

The Ministry of Education of PRC is formulating the *Management Regulations on the Use of Languages in Information Technology Products*. The internal consultation of the draft was completed.

The *Regulations* shall apply to information technology products with features of information processing and content editing of languages, manufactured, distributed and sold in the mainland of China. The Products include language information processing products and digital publishing products. These products must conform to the provisions of relevant laws and standards, or, shall not be produced, sold or imported.

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

2.1 Future Submissions

The Project keeps researching characters used for place and person names in the Twenty-Four Dynasty Histories (廿四史). There are more than 50,000 head characters collected also, from more than 100 different kind of ancient dictionaries. 20% of them, i.e. 10,000 or so are picked out and will be submitted in batches.

The Chinese Character Repertoire and China National Committee for Terms in Sciences and Technologies are collaboratively working with the

Project.

After checking scientific and technological documents and databases of traditional Chinese medicine, zoology and botany, 235 new characters have been found out, and 23 glyphs are proposed to be added to the code chats as horizontal extension.

2.2 Fonts

There will be 760 thousand out of 1 million Hanzi fonts made by the end of 2019.

3. A Method for Generating New Fonts

The Peking University designed a method for automatically generating new fonts based on IDS information and existing fonts. By this method, combined with machine learning and the rules of computer graphics, the computer automatically handles sizes, positions, and stroke interleavings of adjacent components. The experimental results showed that the quality of the generated glyphs is significantly better than the previous results of similar systems. This method can be used to create fonts of new coded characters.

END.