

# ISO/IEC JTC 1/SC 2 N 4160

DATE: 2010-10-06

**ISO/IEC JTC 1/SC 2  
Coded Character Sets  
Secretariat: [Japan \(JISC\)](#)**

<b>DOC. TYPE</b>	Officer's Contribution						
<b>TITLE</b>	SC 2 Chairman's Presentation to the November 2010 JTC 1 Plenary Meeting in Belfast[JTC 1 N 10253]						
<b>SOURCE</b>	Prof. Yoshiki Mikami, SC 2 Acting Chairman						
<b>PROJECT</b>							
<b>STATUS</b>	This document has been circulated to JTC 1 National Bodies for review and consideration at the November 2010 JTC 1 Plenary meeting in Belfast. It is circulated to the SC 2 members for information.						
<b>ACTION ID</b>	FYI						
<b>DUE DATE</b>							
<b>DISTRIBUTION</b>	P, O and L Members of ISO/IEC JTC 1/SC 2 ; ISO/IEC JTC 1 Secretariat; ISO/IEC ITTF						
<b>ACCESS LEVEL</b>	Open						
<b>ISSUE NO.</b>	366						
<b>FILE</b>	<table><tr><td><b>NAME</b></td><td>02n4160.pdf</td></tr><tr><td><b>SIZE (KB)</b></td><td></td></tr><tr><td><b>PAGES</b></td><td>11</td></tr></table>	<b>NAME</b>	02n4160.pdf	<b>SIZE (KB)</b>		<b>PAGES</b>	11
<b>NAME</b>	02n4160.pdf						
<b>SIZE (KB)</b>							
<b>PAGES</b>	11						

Secretariat ISO/IEC JTC 1/SC 2 - IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)\* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 Japan \*Standard Organization Accredited by JISC  
Telephone: +81-3-3431-2808 ; Facsimile: +81-3-3431-6493; E-mail: [kimura@itscj.ipsj.or.jp](mailto:kimura@itscj.ipsj.or.jp)

---

ISO/IEC JTC 1  
Information technology  
Secretariat: ANSI

**Document type:** Officer's Contribution

**Title:** SC 2 Chairman's Presentation to the November 2010 JTC 1 Plenary Meeting in Belfast

**Status:** This document is circulated to JTC 1 National Bodies for review and consideration at the November 2010 JTC 1 Plenary meeting in Belfast.

**Date of document:** 2010-10-04

**Source:** SC 2 Chairman

**Expected action:** ACT

**Email of secretary:** [lrajchel@ansi.org](mailto:lrajchel@ansi.org)

**Committee URL:** <http://isotc.iso.org/livelink/livelink/open/jtc1>



# ISO/IEC JTC 1 SC 2

---

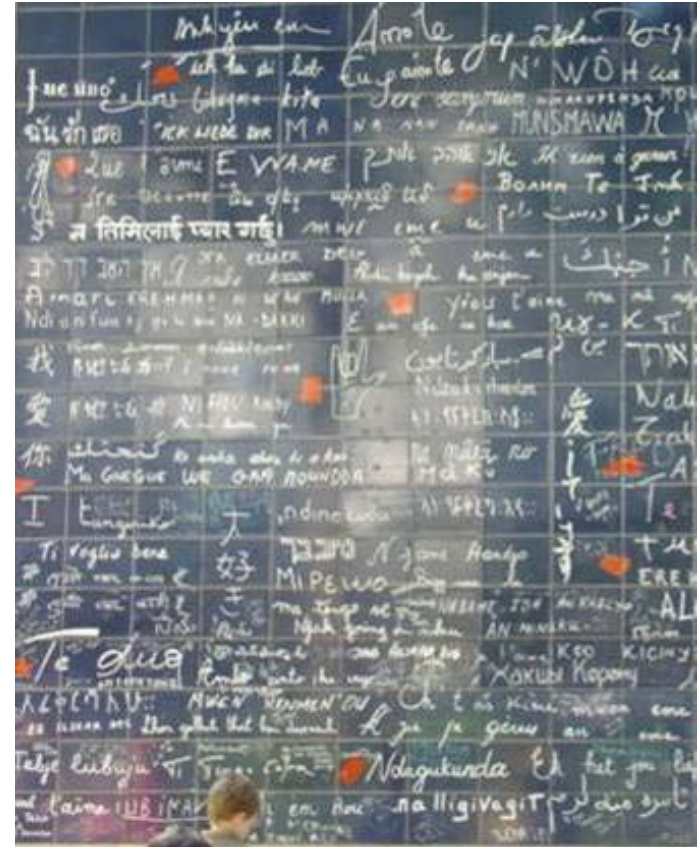
Yoshiki MIKAMI, SC 2 acting Chair

Toshiko KIMURA, SC 2 Secretariat

2010 JTC 1 Plenary

# what is new

- Work items
  - **ISO/IEC 10646**
    - 1<sup>st</sup> ed. (2003): **96,378**
    - 2<sup>nd</sup> ed. (2011): **109,379**
    - 3<sup>rd</sup> ed. (CD): **110,094**
  - **ISO/IEC 14651/Amd. 2**
- participants ( ): last plenary
  - P-member: 29 (28)  
+1: Sri Lanka
  - O-member: 22 (21)  
+1: Bosnia & Herzegovina
- Liaisons
  - No change from the last plenary



The wall at Jehan Rectus square, Paris written in 300 different languages



# user engagement

---

## ■ Participation

- SC2, SC2/WG2 are continuously keeping contact with user communities of the scripts
- Established liaison with UC Berkeley in the field of particular minority and historic scripts

## ■ Requirements addressed

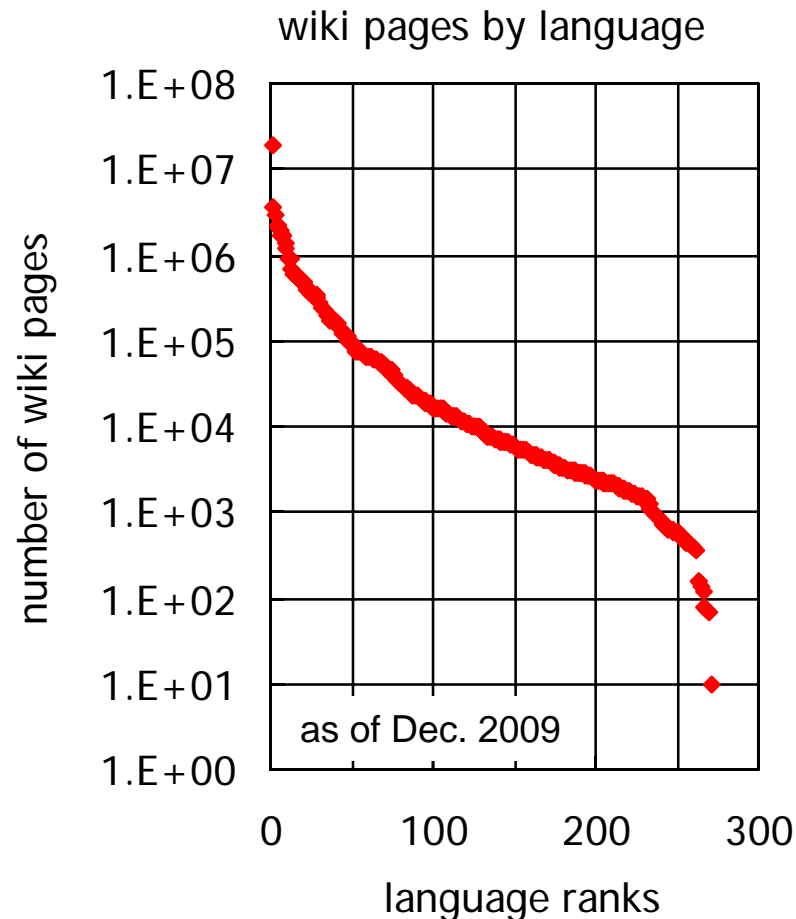
- New wave: EMOJI (pictogram for mobile comm.)
- Minorities: Bamum, Meetei Mayek, Lisu, etc.
- Historians: New extensions to ideographs, Brahmi, etc.

## ■ Challenges

- No explicit challenges from outside of SC2 or JTC1
- Harmonization of national standards with ISO/IEC 10646

# known implementations

- Web pages
  - 271 languages found at wiki
  - BBC delivers online news in 36 languages
  - Domain Names ... IDNs
- Search Engines
  - Locate more than 50 language pages with more than 130 interface languages
- Word-processing, printing
  - Typical software can handle almost all scripts encoded
  - IVS\* in Windows 7, Acrobat 9
    - \*: Ideographic Variation Sequence



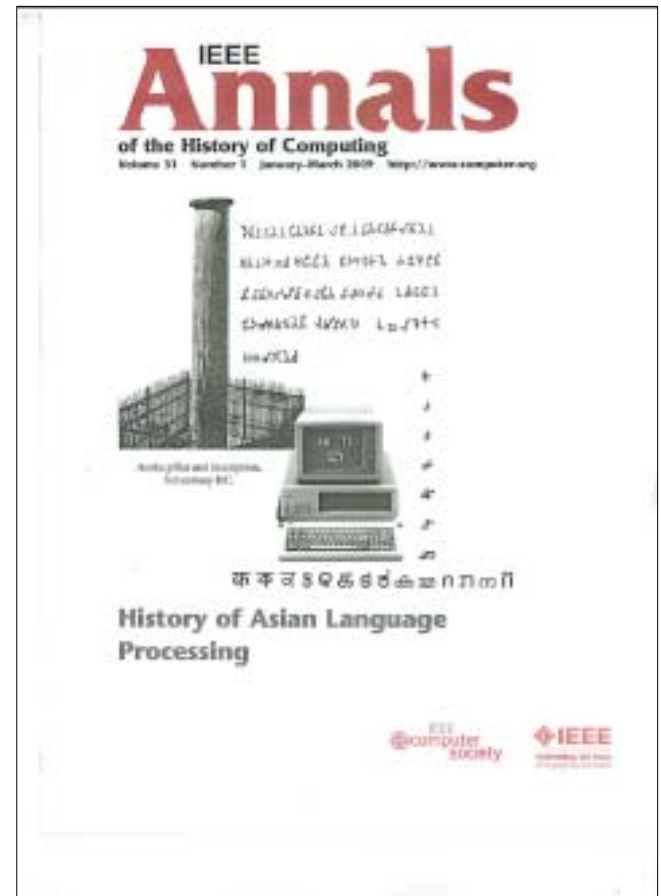
# Outreach - Articles

- “Global text communication via e-mail, on Web pages, cell phones, and in word-processing documents can now be reliably sent, received and located by search engines, thanks to a single character encoding standard, ISO/IEC 10646, that ensures interoperability.”
- By Deborah Anderson  
ISO Focus+, Feb. 2010



# Outreach – Citings by external

- “The inclusion of the Sinhala code page in UCS/Unicode has made it possible to globally connect the Sinhala community in cyberspace.”
- S. T. Nandasara  
IEEE Annals of the History of Computing, 31(1) 32-45.



# challenges

- Potential requests from user groups of minority and historic scripts are still strong and increasing
- Implementation of UCS: Standard is not the goal but the start line for their actual usage ...  
How can we accelerate implementation process



**world summit**  
on the **information society**  
Geneva 2003 - Tunis 2005

## **WSIS Action Lines C8.**

- Cultural and linguistic diversity is essential to the development of an Information Society ...
- Governments should promote the development of ... standard character sets, electronic dictionaries, multilingual search engines, machine translation tools, IDNs, etc.

# issues or needs

## ■ Resource constraints

- Total number of P-/O-members > 50
- Developing world members often lack resources to participate & implement
- Many countries have no official membership status, but have scripts to be coded

## ■ Assistance needed

- collaboration with DEVCO ... to be explored



# 2011

- Directions  
Strategic characteristics

- Interoperability
- Portability
- Cultural & linguistic adaptability
- Accessibility

ISO/IEC Directives  
JTC1 Supplement 2.1.2

- SC 2 Plenary Meeting:  
2011-06-06/10, Helsinki,  
Finland



International Mother Language Day (February 21) demonstrators Bangladesh