

Title: Mobile-Phone based Learning Paradigms

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Abstract:

The rapid development of ICT (Information and Communication Technology) has made it possible to build new Learning Paradigms; Ubiquitous Learning Paradigms where learners can learn anytime and anywhere. Among these paradigms, Mobile-Phone based Learning Paradigm has attracted the attention of people in the world, not only in the developed countries, but also in the developing countries. We introduce several activities on developing Chinese Language Learning System, with special emphasis on Mobile-Phone based Learning System, at Waseda University.

Due largely to recent China's advancement as a leading country for trade, the number of people studying Chinese Language has dramatically increased. At Waseda University, about 30,000 students learn Chinese as a second foreign language, for example. Considering this situation, Waseda University has challenged to develop effective learning paradigms; CALL (Computer Assisted Language Learning).

In 2002, the Department of Letters, Arts and Science started a CD-Rom based Chinese Language Learning System (Dig.) focusing on listening drills and showed its effective in large classroom environment.

Based on these trials, we have developed a web-based (On-Demand) version of Dig., with which students can conduct self-learning via the Internet anytime and anywhere.

Learning materials for Web-based Dig., include multimedia such as video, animation, voice and text clip which are synchronized and displayed like TV program through the web-browsers. A mark-up Language: LML has newly been developed to easily handle these multimedia-based materials.

We finally have developed Mobile-based Chinese Language Learning System: Mobile-based Dig.. Actually, in Japan, mobile phone service with flat charge system has getting so popular among young people. One of the key technologies is the display method of Chinese Fonts. Another key is the concept of a software agent: Virtual Assistant which assists learners to communicate with instructors and give them good hints for effective self-learning, with keeping high motivation for mastering Chinese Language. The system has already been carefully evaluated from the various points of views to show its effectiveness in learning Chinese Language.

Curriculum Vitae:

1. Name: Yoshiyori Urano
2. Date of Birth: January 10, 1942
3. Current Position: Professor, Graduate School of Global Information and Telecommunication Studies, Waseda University
Director, Waseda University Middle East General Research Institute
4. Degree: Doctor of Engineering
5. Educational Background:
 - March 1965: B.E., School of Science and Engineering, Waseda University
 - March 1967: M.E, Graduate School of Science and Engineering, Waseda University
 - March 1970: Doctor of Engineering, Waseda University
6. Field of Specialization Information and Communication Technology, Educational Technology
7. Job Experiences and Academic Appointments
 - April 1970: Researcher, Kokusai Denshin Denwa Company, Ltd. (KDD)
 - March 1993: Director, Research and Development Laboratories, KDD
 - April 1996: Professor, Research Institute for Science and Engineering, Waseda University
 - June 1998: Professor, Global Information and Telecommunication Research Institute (GITI), Waseda University
 - April 2000: Professor, Graduate School of Global Information and Telecommunication Studies (GITS), Waseda University

8. Administrative Appointments at Waseda University:

September 2004-September 2008 Dean, GITS
September 2004-September 2008 Director, GITI

9. Publications:

(Books)

[1]Yoshiyori Urano, "Introduction of Multimedia Communications (in Japanese)", OHM Press, May 1990

[2]Yoshiyori Urano, "Next Generation Network and its Applications(in Japanese)", Frontier Media and Science of Human Beings, Edited by Kawai Takeshi, Takeshi Shibata, e-Human Laboratory, Waseda University, Chapter 5, pp.89-110, March 2006

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[4]Kouich Kishida, Masanori Teramoto, Koji Torii, Yoshiyori Urano, "Quality-Assurance Technology in Japan", IEEE Software, pp.11-18, September 1987

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- [11]Hidehiro Kanemitsu, Yoshiyori Urano, "On the method for realizing globally and locally accessible resource management for WS-Gram", Proceeding of IEEE International Conference on Web Service(IEEE ICWS 2007), pp.1201-1204, July 2007
- [12]Ye Kyaw Thu, Yoshiyori Urano, "Positional Mapping Myanmar Text Input Scheme for Mobile Devices", Proceeding of the International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI07), pp.153-160, July 2007
- [13]MD. Monzur Morshed, Ye Kyaw Thu, Yoshiyori Urano, "Frequency Based Two-Layer Multitap Bangla Input Method for Mobile Phones", Proceeding of the 10th International Conference on Computer and Information Technology(ICCCIT2007), pp.313-319, 2007
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10. Awards:

- (1) Ministry of Science and Engineering Award(April 1988)
- (2) Achievement Award, IEICE(May 1993)
- (3) Achievement Award, ITU Association of Japan(May 2000)
- (4) Ministry of Internal Affairs and Communications Award(May 2008)