

Finland TUT-KEIO SFC Seminar

on Meta-level Knowledge Base Systems for Integrating Cultural, Social, and Natural Sciences

October 5th, 2005, KEIO SFC, JAPAN

Abstract

The important objective of this study is to develop a meta-level knowledge base system for realizing a creative environment in new research fields by integrating information resources in the cultural, social, and natural sciences. The meta-level knowledge base system leads to highly creative activities for human beings over various research fields by sharing, retrieving, editing and integrating databases through wide-area computer networks.

A number of legacy databases for individual scientific research fields are connected to wide-area computer networks. In such a heterogeneous database environment, semantic heterogeneity poses problems in integrating different databases. Knowledge sharing, semantic retrieving and integrating those databases are essentially important for dynamically creating new research fields over various research fields. The meta-level knowledge base system realizes an intelligent knowledge integration environment for future scientific research.

Schedule

9:50-10:00 Opening the Seminar at *Tau 12*

Prof. Yasushi Kiyoki, Keio University
Prof. Hannu Jaakkola, Tampere University of Technology

10:00-11:20 Session 1 at *Tau 12*

"New directions to IT technology and business"
Prof. Yoshiyasu Takefuji (KEIO Univ., SFC)

11:30-12:30 Session 2 at *Tau 12* for (1) and *Tau 41* for (2)

- (1) "Mobile and ubiquitous computing environments"
Prof. Hideyuki Tokuda (KEIO Univ., SFC)
- (2) "Mobile and ubiquitous computing environments" research demonstration
Prof. Masayuki Iwai (KEIO Univ., SFC)

13:00-14:20 Session 3 at *Tau 12*

"Human resource management and development systems in Japan"
Prof. Mitsuyo Hanada (KEIO Univ., SFC)

14:30-15:40 Session 4 at *Tau 12*

- (1) "Knowledge management systems for multimedia databases"
Prof. Yasushi Kiyoki (KEIO Univ., SFC)
- (2) "Multimedia Knowledge base system demonstrations"
Prof. Naofumi Yoshida (KEIO Univ., SFC)
Prof. Shiori Sasaki (KEIO Univ., SFC)

15:50-16:20 Session 5 at *Tau 12*

"Spatial and mobile Systems"
Prof. Yoshihide, Hosokawa (Nagoya Institute of Technology)

16:20-16:50 Session 6 at *Tau 12*

- (1) "Information retrieval systems for Images"
 - (2) "Cultural considerations in Oriental countries"
- Prof. Yukio Chen (Kanagawa Institute of Technology)

16:50-17:20 Session 7 at *Tau 12*

"Steganography technology"
Prof. Eiji Kawaguchi (Keio Univ.)

17:20-17:50 KEIO SFC Tour

18:00-19:00 Discussions with dinner