

5th Workshop on Web Technology & Computer Science
Oct. 15-16, 2003
University of Tsukuba

The 5th Joint AEARU Workshop on Web Technology and Computer Science (30-year anniversary of University of Tsukuba)

October 15-16, 2003

University Hall, University of Tsukuba, Tsukuba, JAPAN

Organized by

Institute of Information Sciences and Electronics



Date: October 15-16, 2003

Host: Institute of Information Sciences and Electronics,
University of Tsukuba, Japan

Venue: Tennodai 1-1-1, Tsukuba Science City, Japan

Workshop Organizers:

Workshop Chair: Yoshihiko EBIHARA, Professor, IISE

Local Arrangement: [WT]: Shigetomo KIMURA, Assoc. Prof., IISE
[CS]: Jie LI, Assoc. Prof., IISE

Number of Participants: 80

Program:

October 15 (Wednesday)

13:00-13:30 Opening ceremony

(13:30-17:15) Presentations on web technology

13:30-15:30 SESSION WT-1

- *Design of a Web Query Language TWebSQL*
Cai Zhi, Zhu Meng-Xiao, and Xu-Fa Wang
University of Science and Technology of China
- *Web Image Annotation Based On Latent Semantic Analysis*

Lu Chao, Zhu Zhengwen, Song Fangmin, and Chen Junliang
Nanjing University

- *Ising Information Retrieval Search Model by Web Structure Mining*
Hiroyuki KAWANO
Kyoto University
- *Implementation and Evaluation of Proxy Caching System for MPEG-4 Video Streaming with Quality Adjustment Mechanism*
Yoshiaki Taniguchi¹, Atsushi Ueoka², Naoki Wakamiya¹, Masayuki Murata¹,
and Fumio Noda²
(1: Osaka University, 2: Hitachi Ltd.)

15:30-15:45 Coffee Break

15:45-17:15 SESSION WT-2

- *Analysis of IPv6 over Search Engine*
Yue Li, Hui Liu, Gang Zhu, Shaozhi Ye, and Xing Li
Tsinghua University
- *A Proposal of DNS-Based Adaptive Load Balancing Method for Mirror Server Systems and Its Implementation*
Hiroshi Yokota, Shigetomo Kimura, and Yoshihiko Ebihara
University of Tsukuba
- *Transparent Mail Check System in the University of Tokyo*
Fumitaka Nakamura, and Hiroyuki Sajima
University of Tokyo

17:15- Dinner

October 16 (Thursday)

(8:45-12:00) Presentations on computer science

8:45-10:05 SESSION CS-1

- *Data Mining with Optimized Two-Dimensional Association Rules*
ACM Transactions on Database Systems (TODS), vol. 26, Issue 2, June 2001
Takeshi Fukuda, Yasuhiko Morimoto, Shimichi Morishita, and Takeshi Tokuyama
(to be presented by Prof. Tokuyama, Tohoku University, Japan)
- *Paradoxes in distributed decisions on optimal load balancing for networks of homogeneous computers*
Journal of the ACM, vol. 49, no. 3, pp.407-433, 2002
H. Kameda, and O. Pourtallier,
(To be presented by Prof. Kameda, University of Tsukuba, Japan)
- *Optimal dynamic mobility management for PCS networks*
IEEE/ACM Trans. on Networking, vol. 8, no. 3, pp. 319-327, June, 2000
J. Li, H. Kameda, and K. Li
(To be presented by Dr. Li, University of Tsukuba, Japan)

- *Persistently Cached B-Trees*
IEEE Transactions on Knowledge and Data Engineering, vol. 15, no. 3, pp. 706-720, May/June 2003
K. Kato
(to be presented by Dr. Kato, University of Tsukuba, Japan)

10:05-10:20 Coffee Break

10:20-12:00 SESSION CS-2

- *Adaptive Slot Allocation for DOCSIS-based CATV Networks*
IEEE Transactions on Multimedia (accepted)
Wanjiun Liao and Huei-Jiun Ju
(to be presented by Prof. Liao, National Taiwan University, Taiwan)
- *A Bipartition-Codec Architecture to Reduce Power in Pipelined Circuits*
IEEE Transactions on CAD, vol. 20, no. 2, pp. 343-348, February 2001
Shanq-Jang Ruan, Rung-Ji Shang, Feipei Lai and Kun-Lin Tsai
(to be presented by Prof. Lai, National Taiwan University, Taiwan)
- *3D-List: A Data Structure for Efficient Video Query Processing*
IEEE Transactions on Knowledge and Data Engineering (EI,SCI), vol. 14, no. 1, pp.106-122, January/February 2002
C.C. Liu and A.L.P. Chen
(to be presented by Prof. Chen, National Tsing Hua University, Taiwan)
- *Constructing edge-disjoint spanning trees in product networks*
IEEE Transactions on Parallel and Distributed Systems, vol. 14, no. 3, March 2003
S.-C. Ku, B.-F. Wang, and T.-K. Hung
(to be presented by Prof. B. -F. Wang, National Tsing Hua University, Taiwan)
- *An Efficient Cell Scheduling Algorithm for Multicast ATM Switching Systems*
W. T. Chen, Chun-Fu Huang, Yi-Luang, and Wu-Yuin Hwang
IEEE/ACM Transactions on Networking, vol. 8, no. 4, pp.517-525, August 2000
(to be presented by Prof. W. T. Chen, National Tsing Hua University, Taiwan)

12:00-12:30 Closing ceremony
12:30-13:30 Lunch
13:30- Optional tour in Tsukuba Science City

Comments by the organization committee:

The The 5th Joint AEARU Workshop on Web Technology and Computer Science was held at the international conference room of University hall,

Univerisity of Tsukuba, Japan on October 15-16, 2003, in conjunction with the 30-year anniversary of University of Tsukuba. This forum of this year is organized by the Insititute of Information Sciences and Electronics, University of Tsukuba. The delegates, who came from 9 member universities, not only presented excellent research results, but also exchanged different opinions and experience in education and research in Web Technology and Computer Sciences.

We look forward to the next forum of the AEARU Workshop on Web Technology and Computer Science. However, there is no agreement on the host of the next AEARU Workshop, which will be discussed among the AEARU member universities later.