# Time Table

## April 13 2005 (Wed)

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**Program**

**April 13 (Wednesday)**

**13:00-13:15** Opening Session  
General Chair: **Yasuo Hirata** (KDDI R&D Laboratories, Japan)

**13:15-14:00** Keynote Speech  
**Toward Future Innovation of Mobile Communication Systems**  
— Current Requirements for Research —  
**Prof. Teruo Higashino** (Osaka University, Japan)

**14:00-14:15** Coffee Break

**14:15-15:45** Session 1: Ad hoc Network Routing  
Session Chair: **Takamichi Tateoka** (University of Electro-Communications, Japan)

- **A Link-Connectivity-Prediction-Based Location-Aided Routing Protocol for Hybrid Wired-Wireless Networks**  
  **Mintao Wu** (National University of Singapore, Singapore), Winston K.G. Seah, Lawrence W.C. Wong  
  (Agency for Science Technology and Research, National University of Singapore, Singapore)

- **VANS: Visual Ad hoc Network Simulator**  
  **Masako Shinohara**, Hideki Hayashi, Takahiro Hara, Akimitsu Kanzaki, Shojiro Nishio (Osaka University, Japan)

- **Dynamic Topology Control to Reduce Interference in MANETs**  
  **Hwee Xian TAN** (National University of Singapore, Agency for Science Technology and Research, Singapore), Winston K. G. SEAH (Agency for Science Technology and Research, National University of Singapore, Singapore)

**15:45-16:00** Coffee Break

**16:00-17:30** Session 2: Security  
Session Chair: **Miki Yamamoto** (Osaka University, Japan)

- **Less Power Security Techniques for Sensor Networks**  
  **Junaid Majeed** (Hamdard University, Pakistan)

- **Design and Implementation of Wireless Payment System using GVM and MobileC**  
  **Sung-Lim Yun**, Eun-Bae Eom (Dongguk University, Korea), Jung-Sook Kim (Sahmyook College, Korea),  
  and Se-Man Oh (Dongguk University, Korea)

- **The Electronic ID and the Voting Admission using a Cell Phone**  
  **Tetsuji KOBAYASHI**, Jaewook KIM and Norifumi MACHIDA (Nippon Institute of Technology, Japan)
April 14 (Thursday)

9:00-10:00  **Keynote Speech**  
Evolution of Mobile Communications toward Ubiquitous Network Society  
*Yasuo Hirata (KDDI R&D Laboratories, Japan)*

10:00-10:15  **Coffee Break**

10:15-11:45  **Session 3: Ubiquitous Infrastructure**  
*Session Chair: Masugi Inoue* (National Institute of Information and Communications Technology, Japan)

- Directional NAV Indicators for Smart Antenna Based Ad Hoc Networks  
  *Masanori Sekido, Masanori Takata, Masaki Bandai, and Takashi Watanabe (Shizuoka University, Japan)*

- Performance Analysis of IEEE 802.11 MAC Protocols over WLANs with Capture Effect  
  *Xiaolong Li and Qing-An Zeng (University of Cincinnati, USA)*

- Performance Analysis of a Directional MAC for Location Information Staleness in Ad Hoc Networks  
  *Masanori Takata, Masaki Bandai and Takashi Watanabe (Shizuoka University, Japan)*

11:45-13:00  **Lunch Break**

13:00-14:45  **Panel Discussion**  
Ubiquitous computing technologies in the world  
*Session Chair: Masahiro Kuroda* (National Institute of Information and Communications Technology, Japan)

*Panelists:*  
Prof. Hideyuki Nakashima (Future University-Hakodate, Japan)  
Prof. Chai-Keong Toh (Queen Mary University of London, UK)  
Prof. We-Duke Cho (Ajou University, Korea)

14:45-15:00  **Coffee Break**

15:00-16:00  **Session 4: Information Delivery**  
*Session Chair: Susumu Ishihara* (Shizuoka University, Japan)

- A Broadcasting Scheme for Continuous Media Data with Restrictions in Data Division  
  *Tomoki Yoshihisa (Osaka University, Japan), Masahiko Tsukamoto (Kobe University, Japan), and Shojiro Nishio (Osaka University, Japan)*

- MODE for Mobile – An Efficient Overlay Multicast Protocol for Heterogeneous Users –  
  *Thilme M. Baduge, Hirozumi Yamaguchi, Teruo Higashino (Osaka University, Japan)*
17:30-19:30  Banquet
Executive Co-chair  Osamu Takahashi
The conference banquet will be held in Senri Hankyu Hotel.  See “Banquet” section for details.

April 15 (Friday)

9:00-10:30  Session 5: Location Dependent Processing
Session Chair: Hidetoshi Yokota (KDDI R&D Laboratories, Japan)

- A Personal Navigation System with a Schedule Planning Facility Based on Multi-Objective Criteria
  Takayuki SHIRAISHI, Munenobu NAGATA (Nara Institute of Science and Technology, Japan), Naoki SHIBATA (Shiga University, Japan), Yoshihiro MURATA, Keiichi YASUMOTO, and Minoru ITO (Nara Institute of Science and Technology, Japan)

- Location Web: Proposal and implementation of location-based Web content search and creation using the mobile phone
  Misato Sasaki (KDDI R&D Laboratories, Japan), Christian Noack (Brandenburg University of Technology, Germany), Hidetoshi Yokota, and Akira Idoue (KDDI R&D Laboratories, Japan)

- Evaluation of a replication method for data associated with location in mobile ad hoc networks
  Gen Tsuchida (Shizuoka University, Japan), Tomoyuki Okino (Mitsubishi Electric Information Network Corporation, Japan), Tadanori Mizuno, and Susumu Ishihara (Shizuoka University, Japan)

10:30-10:45  Coffee Break

10:45-12:15  Session 6: Handover Management
Session Chair: Hiroshi Shigeno (Keio University, Japan)

- Traffic Modeling and Analysis of Wireless and Mobile Cellular Systems Using Smart Antennas
  Wei Shen, Huazhou Liu, and Qing-An Zeng (University of Cincinnati, USA)

- Reliable Multicast Protocol with Packet Forwarding in Wireless Internet
  Taku NOGUCHI (Ritsumeikan University, Japan), Toru YOSHIKAWA, and Miki YAMAMOTO (Osaka University, Japan)

- A Predictive Low Latency Handover Scheme for Mobile IP
  N. Van den Wijngaert and C. Blondia (University of Antwerp, Belgium)

12:15-13:30  Lunch Break
13:30-14:30  Session 7: Quality of Service
Session Chair: Gen Kitagata (Tohoku University, Japan)

● A multi-hop MANET demonstrator tested on real-time applications
  Giorgio Mulas, Alessandro La Piana, Fabio Cau, Pierluigi Iodice, Andrea Tamoni, and Simone Antonini
  (CEFRIEL, Italy)

● Software Agent (SA) to guarantee QoS for multi constrain applications in all-IP networks
  Kazi Khaled Al-Zahid Kaniz Akter and Mitsuji Matsumoto (Waseda University, Japan)

14:30-14:45  Coffee Break

14:45-15:45  Session 8: Sensor Networks
Session Chair: Keisuke Suwa (Musashi Institute of Technology, Japan)

● UPnP-Based Sensor Network Management Architecture
  Hyungjoo Song and Daeyoung Kim (Information and Communications University, Korea)

● Prolonging Network Lifetime via Intra-Cluster Routing in Wireless Sensor Networks
  Trong Thua Huynh and Choong Seon Hong (Kyung Hee University, Korea)

15:45-16:00  Closing
  Executive Co-chair  Tadanori Mizuno
Keynote Speech

Toward Future Innovation of Mobile Communication Systems
— Current Requirements for Research —

Professor Teruo Higashino
Department of Information Networking
Graduate School of Information Science and Technology
Osaka University

Speaker’s Biography
Teruo Higashino is a professor in the department of Information Networking, Graduate School of Information Science and Technology, Osaka University, Japan. He received the B.E., M.E., and Ph.D. degrees in Information and Computer Sciences from Osaka University, Osaka, Japan, in 1979, 1981 and 1984, respectively. He joined the faculty of Osaka University in 1984, and he has been a professor from 1999. His current research interests include mobile computing, distributed computing systems, communication protocols, and formal description techniques. He is a fellow of Information Processing Society of Japan (IPSJ), and serves on the chair of the IPSJ Special Interest Group on Distributed Processing System (SIG-DPS). He is a senior member of IEEE, and a member of IFIP TC6/WG6.1.
Keynote Speech

Evolution of Mobile Communications Toward Ubiquitous Network Society

Yasuo Hirata, Dr. Eng.
Chairman
KDDI R&D Laboratories Inc.

Speaker’s Biography

Dr. Yasuo Hirata is currently Chairman of the Board of KDDI R&D Laboratories Inc. He received the B.S. M.S. and Ph. D. Degrees from Kyoto University in 1965, 1967 and 1977, respectively. In 1967, he joined KDD (currently KDDI), where he has been engaged in research and development on key digital technologies and completed system design for digital mobile satellite communication systems. His significant research is on the highly efficient forward error correction (FEC) technology.

He has also been active in the areas of standardization. He has been a vice chairperson of ITU-R Study Group 8 which deals with mobile communications and has taken a chairmanship of IWP8/7, IWP8/14 and Working Party 8D of SG8 over twelve years to support the advance of mobile satellite communications.

Since Jun, 1994 to October, 2000, he was Member of the Board, Executive Managing Director of KDD. From October, 2000 to June, 2003, he was Member of the Board, Senior Vice President of KDDI Corporation. He is now an IEEE fellow and an IEICE fellow.
Banquet information

Conference banquet will be held in Jurin of Senri Hankyu Hotel, one of the official hotels of ICMU2005, in the second day evening (4/14 17:30 to 19:30). The program committee has prepared a courtesy bus to take you to the hotel. It will leave the conference hall at 16:15. Please take care not to be late for the bus.

Venue

The conference will be held at Osaka University Convention Center. This center is located at Suita Campus of Osaka University. Osaka University, a National University founded in 1931, has traditionally attached high value to liberal ways of thinking, novelty, foresight and advanced academic research. The University now boasts ten schools and faculties, 14 graduate schools, the Liberal Arts and Sciences Organization, the Faculty of Language and Culture, the School of Health and Sport Sciences, and five research institutes, as well as libraries, two hospitals, and over 30 research facilities.
The University has an enrollment of about 20,000 students and a staff of some 4,500. The University has two campuses, Toyonaka and Suita, with a total land area of 1.5 million square meters (370 acres). The University has actively promoted international exchange, as demonstrated by the fact that about 1,000 overseas students are now enrolled in the University and some 1,400 international researchers stay at or visit the University annually. In addition, Osaka University has concluded Memorandum for student exchange with many universities and colleges around the world for both inter-university and inter-faculty exchanges, and the number of universities and colleges that have signed such agreements with Osaka University has increased remarkably over the past few years.

**Address**

Osaka University  
1-1 Yamadaoka Suita, Osaka 565-0871 Japan

**Access from the Nearest Stations**

- **Kita-Senri Station (Hankyu Senri Line)**  
  20 min. walk east from Kita-Senri Station on the Hankyu Senri Line.

- **Handai Byoin Mae (Monorail)**  
  15 min. walk from Handai Byoin Mae Station on the Osaka Monorail.

- **Senri-Chuo Station (Subway)**  
  Take the Osaka Monorail to Handai Byoin Mae.
  
  or

  Get on the bus bound for "Handai Honbu Mae" or "Ibaraki Mihogaoka" from Senri-Chuo Station. Get off at Handai Honbu Mae and walk about 5 minutes.
Senri-Chuo Station Bus Terminal

Hankyū Bus Terminal 6
Get on [100], [101], [103], [105] or [164]
Get off at “Handai Honbu Mae” (inside the campus)

Senri-Hankyū Hotel (banquet)

Hankyū Department Store

Subway Midosuji Line (Senri-chuo Station)

Senri-Chuo Station Bus Terminal

Osaka Monorail (Senri-chuo Station)

to Osaka/Itami Airport (domestic)

to Banpaku Kinen Koen

gas station
Detailed campus map is available from http://www.osaka-u.ac.jp/eng/campus/suita.html.