

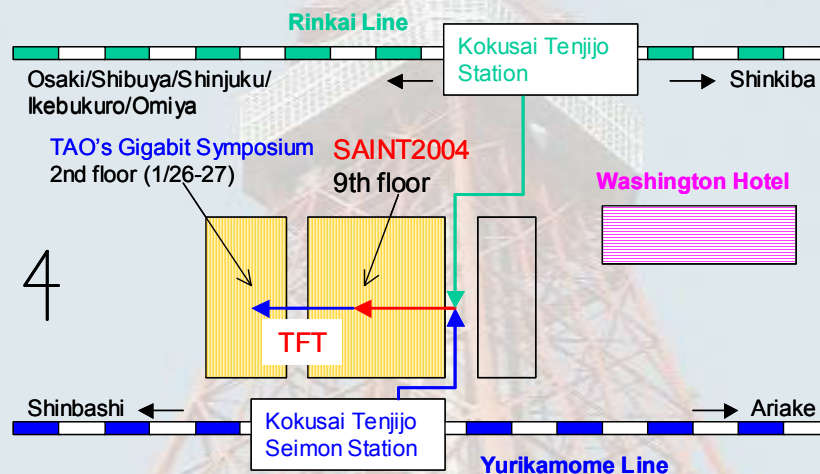
SAINT

SAINT2004

The 2004 Symposium on Applications & the Internet

Tokyo, Japan
January 26 - 30, 2004

FINAL PROGRAM



Co-sponsored by the IEEE Computer Society (IEEE-CS) and the Information Processing Society of Japan (IPSJ).

In cooperation with Japan's Telecommunication Advancement Organization (TAO), and Communications Society (CS) and Information and Systems Society (ISS) of The Institute of Electronics, Information and Communication Engineers (IEICE).



Information Processing Society of Japan

SYMPOSIUM - Keynotes and Paper Sessions

Wednesday, 28 January 2004

Opening

ROOM 904 09:30-09:45

Keynote 1

ROOM 904 09:45-11:00

Speaker: To be appeared on the web

Paper 1 Mobile Communication and Application

ROOM 904 11:30-13:00

Chair: Shigeru Miyake, Hitachi Ltd., Japan

AOE: A Mobile Operating Environment for Web-Based Applications

N. Islam, D. Zhou, S. Shoaib, A. Ismael, and S. Kizhakkiniyil

Performance Measurement of Mobile Ad Hoc Network for Application
to Internet-ITS (Intelligent Transportation System)

T. Osafune, K. Monden, S. Fukuzawa, and S. Matsui

Twin Agents: Network-Assisted Disconnected Operation and Distributed
Processing for Mobile Communication

D. Ochi and K. Yamazaki

Paper 2 Collaborative System

ROOM 904 14:00-15:30

Chair: Sumi Helal, University of Florida, USA

A Novel Hierarchical Community Architecture with End-to-End Delay Awareness
for Communication Delay Enhancement

K. Ragab, N. Kaji, K. Anwar, Y. Horikoshi, H. Kuriyama, and K. Mori

A High Presence Shared Space Communication System Using 2D Background and 3D
Avatar

K. Yoshikawa, T. Machida, K. Kiyokawa, and H. Takemura

e-MulCS: Multi-Party Conference System with Virtual Space and the Intuitive
Input Interface

K. Honda, K. Fukui, H. Shigeno, and K. Okada

Paper 3 Web Services

ROOM 904 16:00-17:30

Chair: Erich Neuhold, Fraunhofer-IPSI, Germany

Interacting the Edutella/JXTA Peer-to-Peer Network with Web Services

C. Qu and W. Nejd

Interactively Adding Web Service Interfaces to Existing Web Applications

R. Baumgartner, G. Gottlob, M. Herzog, and W. Slany

Thread-Aware Garbage Collection for Server Applications

W. J. Kim, K. Kim, J. Han, K. Park, and D. Park

Paper 4 Internet Operation and Performance

ROOM 905 11:30-13:00

Chair: Jonghun Park, Korea Advanced Institute of Science & Technology, Korea

A Distributed Real-Time Tool for IP-Flow Measurement

Y. Kitatsuji and K. Yamazaki

On the Characteristics of Internet Traffic Variability: Spikes and Elephants

T. Mori, R. Kawahara, S. Naito, and S. Goto

HTTP Performance Analysis over Multi-Hops Satellite Communication System

H. Obata, K. Ishida, J. Funasaka, S. Takeuchi, K. Hirose, and K. Yamazaki

Paper 5 Broadband Services

ROOM 905 14:00-15:30

Chair: Ying Cai, Iowa State University, USA

JSP Splitting for Improving Execution Performance

T. Nakaike, G. Kondoh, H. Nakamura, F. Kitayama, and S. Hirose

A Case for a Generalized Periodic Broadcast Server: Design, Analysis, and Implementation

M. Tran, W. Putthividhya, W. Tavanapong, and J. Wong

Implementation and Evaluation of the Robust High-Quality Video Transfer System on the Broadband Internet

T. Kondo, K. Nishimura, and R. Aibara

Thursday, 29 January 2004

Keynote 2

ROOM 904 09:45-11:00

Speaker: To be appeared on the web

Paper 6 Internet Applications I

ROOM 904 11:30-13:00

Chair: Wallapak Tavanapong, Iowa State University, USA

A Distributed File System for Java Applet Based Distance Learning

M. Uehara

An Adaptive Programming Framework for Web Applications

P.-H. Chang, W. Kim, and G. Agha

XML Data Integration with OWL: Experiences and Challenges

P. Lehti and P. Fankhauser

Paper 7 Internet Applications II

ROOM 904 14:00-15:30

Chair: Wojciech Cellary, Poznan U., Poland

Leveraging Broadband Access for True On-Demand Delivery of Internet Videos

Y. Cai, Z. Chen, and J. Wong

Change Discovery of Hierarchically Structured, Order-Sensitive Data in HTML/XML Documents

S. Lim and Y.-K. Ng

Handling Catastrophic Failures in Scalable Internet Applications

M. Haungs, R. Pandey, and E. Barr

Paper 8 Internet Security

ROOM 904 16:00-17:30

Chair: Johnny Wong, Iowa State University, USA

Single Sign On Architecture with Dynamic Tokens

F. Satoh and T. Itoh

Malicious Sniffing Systems Detection Platform

Z. Trabelsi, H. Rahmani, K. Kaouech, and M. Frikha

Performance Analysis of Content Matching Intrusion Detection Systems

S. Antonatos, K. G. Anagnostakis, E. P. Markatos, and M. Polychronakis

Short Paper I

ROOM 905 11:30-13:00

Chair: Katsuyuki Yamazaki, KDDI Labs., Japan

Traffic Analysis and Worldwide Operation of Open 6to4 Relays for IPv6 Deployment

Y. Hei and K. Yamazaki

Endpoint Admission Control Enhanced Systems for VoIP Networks

A. A. Bilhaj and K. Mase

Path Selection Using Active Measurement in Multi-Homed Wireless Networks
S. Kashihara, T. Nishiyama, K. Iida, H. Koga, Y. Kadobayashi, and S. Yamaguchi

Introducing Grammar of the Film Language into Automatic Shooting for Face-to-Face Meetings
A. Inoue, H. Shigeno, K. Okada, and Y. Matsushita

Short Paper II

ROOM 905 14:00-15:30

Chair: Shinji Shimojo, Osaka Univ., Japan

MAS and Fault-Management

P. Xu and R. Deters

Metadata Driven Seamless Content Handover in Ubiquitous Environment

M. Kawarasaki, K. Ooto, T. Nakanishi, and H. Suzuki

A Method of Appliance Detection Based on Features of Power Waveform

M. Ito, R. Uda, S. Ichimura, K. Tago, T. Hoshi, and Y. Matsushita

A Teleconferencing System with High-Speed Stream Mixing for Voice over IP

K. Ohshima, Y. Tajima, and M. Terada

Friday, 30 January 2004

Paper 9 Protocol I

ROOM 904 09:30-11:00

Chair: Kenichi Baba, Osaka Univ., Japan

DNS: Disk-to-Network Splicing for Network Driven Data Transferring

S. S. Lim and K. H. Park

Multicast Routers Cooperating with Channel Announcement System

H. Asaeda and W. Dabbous

MGMS/GML-Towards a New Policy Specification Framework for Multicast Group Integrity

A. Meissner, S. B. Musunoori, and L. Wolf

Paper 10 Protocol II

ROOM 904 11:30-13:00

Chair: Yuji Oie, Kyushu Institute of Tech., Japan

Realizing High Mobility through an End-to-End Network Architecture with IP Diversity Support for Real Time Internet Applications

R. Inayat, R. Aibara, K. Nishimura, T. Fujita, and K. Maeda

A Multi-Dimensional Packet Classifier for NP-Based Firewalls

M. J. Rashti, H. R. Rabiee, A. Foroutan, and M. Lavasani

A Transparent Session Migration and Transparent Fail-Over Protocol for PPPoE Server Cluster

A. Saitoh and H. Masuda

Short Paper III

ROOM 904 14:00-15:30

Chair: Hiroshi Esaki, Univ. of Tokyo, Japan

Design and Implementation of Adaptive Service Disconnect/Reconnect Support Mechanism

T. Nagata, N. Nishio, and H. Tokuda

Clustering Search Engine Query Log Containing Noisy Clickthroughs

W. S. Chan, W. T. Leung, and D. L. Lee

Remote Visualization Using Resource Monitoring Technique for Volume Rendering of Large Datasets

Y. Ebara, Y. Watashiba, K. Koyamada, K. Sakai, and A. Doi

The Design of Virtual Private Network Topology for Migrating to IPv6 World

E. Kimura, T. Norihiko, and K. Ishihara

SYMPOSIUM - Panels

Wednesday, 28 January 2004

Panel 1 The Future of the Internet Architecture

ROOM 906 11:30-13:00

Chair: Jun-Ichiro Hagino

Panelists:

James Kempf
Dave Crocker
Pekka Nikander
Hiroshi Esaki

Evolving the Internet Addressing Architecture

J. Kempf

Multiple Address Service for Transport (MAST)

D. Crocker

Applying Host Identity Protocol to the Internet Addressing Architecture

P. Nikander

Multi-Homing and Multi-Path Architecture Using Mobile IP and NEMO Framework

H. Esaki

Thursday, 29 January 2004

Panel 2 Ubiquitous Services and Networking

ROOM 906 11:30-13:00

Chair: Hiroyuki Morikawa

Panelists:

Roy H. Campbell
Albert Krohn
Venu Vasudevan
Kei Suzuki
Kenichi Yamazaki

Ubiquitous Computing and the Internet

A. Krohn

Ensembleware: Contextual Service Provisioning in an Ubiquitous Services World

V. Vasudevan

Ubiquitous Services and Networking: Monitoring the Real World

K. Suzuki

Research Directions for Ubiquitous Services

K. Yamazaki

SYMPOSIUM - Tutorials

Tuesday, 27 January 2004

Tutorial 1 (in English)

ROOM 906 09:30-13:00

IP-Oriented QoS in the Next Generation Networks: application to wireless networks

Dr. Pascal Lorenz
Professor
The University of Haute-Alsace

Tutorial 2 (in Japanese)

ROOM 906 14:00-17:30

802.11 Security -- Past, Today, and the Future ---

Mr. Motonori Shindo
Chief Technology Officer
Data Control, Ltd.

Workshops

Monday, 26 January 2004

Workshop 1 E-Business

ROOM 904 09:30-17:30

Organizers:

Hitoshi Okada, National Institute of Informatics, Japan
Jean-Michel Sahut, Institut National des Telecommunications, Evry, France
Nobuhiko Sugiura, Financial Services Agency, Japan
Shiro Uesugi, Matsuyama University

Session 1: Technologies and Law Enforcement about Electronic Payment Systems

Chair: Mr. Sugiura

Co-Chair: Prof. Sahut

Electronic Payment Market: A Non-Optimal Equilibrium

J.- M. Sahut and M. Galuszewska

How Does Propagational Investment Currency System Change the World?

K. Suzuki

On a Digital Signature Based Cyber Local Money System

S. Yamasaki

The Legal Nature of Information Transactions—A Perspective of Information License Contracts in Japan

H.-S. Seo

Session 2: Valorization Policy and Venture Capitals for E-Business

Chair: Prof. Sahut

Co-Chair: Mr. Sugiura

ICT Acceptation: The Case of CRM Project

M. Jegham and J.- M. Sahut

Responsibility of ICT in the Variance of Decision Making

A. Levy

Session 3: Technologies and Social Aspects of E-Business Implementations

Chair: Dr. Uesugi

Co-Chair: Dr. Okada

Suggestions on How to Implement Supply Chain Management: From the Perspective of Japanese Business Relations

K. Kikuchi

Issues of E-Business Implementation from Enterprise Architecture Viewpoint

T. Kamogawa and H. Okada

On Speculation about Difference and Similarity between a Company, a University, and a Sightseeing City from the Aspect of Business Schemes on Digital Intellectual Assets

K. Nakano

A Remote Lecture System with Laser Pointer for the Internet and Broadband Networks

S. Sugawara and T. Miki

E-Technologies, Enabler of Innovation Process; Some Case Studies Based on Government and Local Authorities Policy

B. Salgues

Session 4: P2P Networks Will Change the Community

Chair: Dr. Okada

Co-Chair: Dr. Uesugi

Legal System and Computer Forensics Business

I. Takahashi

The Evaluation System of Research Findings on the Web

Y. Sakata

Model Analysis of Digital Copyright Piracy on P2P Networks

Y. Itakura, M. Yokozawa, and T. Shinohara

E-Business for Depopulated Areas: Why Not "Re-bundle" Local Loops?

S. Uesugi

Workshop 5 Service Oriented Computing Workshop

ROOM 905 09:30-17:30

Organizers:

Tatsuya Suda, University of California, Irvine, USA

Satoshi Tanaka, NTT, Japan

Tomoko Itao, NTT, Japan

Atsushi Yamamoto, NTT, Japan

Session 1: Visions of Future Applications

Chair: Tomoko Itao, NTT

Real-World Oriented Entertainment Applications

T. Itao, A. Yamamoto, S. Tanaka, and T. Suda

Wearable Computing in Daily Life

M. Tsukamoto

The Design and Implementation of Context-Aware Services

H. Morikawa

The Demonstration of Network-Assisted Disconnected Operation for Mobile Communication

D. Ochi and K. Yamazaki

Session 2: Service Creation Frameworks

Chair: Hiroyuki Morikawa, University of Tokyo

The Design of Naming-Based Service Composition System for Ubiquitous Computing Applications

M. Minami, H. Morikawa, and T. Aoyama

A Service-Composition and Service-Emergence Framework for
Ubiquitous-Computing Environments

M. Takemoto, T. Oh-ishi, T. Iwata, Y. Yamato, Y. Tanaka, K. Shinno, S.
Tokumoto, and N. Shimamoto

A Service Selection Method Based on Context Types for a Ubiquitous Service
System in a Public Space

H. Kawamichi, S. Sameshima, H. Kato, and K. Kawano

Implementation and Evaluation of Message Delegation Middleware for ITS
Application

G. Hattori, C. Ono, S. Nishiyama, and H. Horiuchi

Extended Web Services Framework to Meet Non-Functional Requirements

Z. U. Singhera

Session 3: Autonomous Components for Service Creation

Chair: Katsumi Kawano, Hitachi

SDO Model and Its Standardization Activity

K. Kawakami, S. Sameshima, K. Kawano, J. Suzuki, T. Suda, S. Steglich, and
S. Shin

Component Service Model with Semantics (CoSMoS): A New Component Model for
Dynamic Service Composition

K. Fujii and T. Suda

Towards the Automatic Composition of Co-Business Processes

J. Park

Evolution and Adaptation of Distributed Network Services

T. Nakano and T. Suda

Session 4: Platforms and Middleware for Service Creation

Chair: Raymond Klefstad, University of California, Irvine

The Design and Implementation of Service Emergence Platform Software

S. Tanaka, T. Iato, A. Yamamoto, T. Suda, and S. Yamada

Middleware Support for Super Distributed Autonomic Services in Pervasive
Networks

J. Suzuki and T. Suda

ZEUS: A CORBA Framework for Service Location and Creation

N. Shankaran and R. Klefstad

Session 5: P2P Support for Service Creation

Chair: Hirotoishi Iwasaki, Denso IT Laboratory

Distributed Pagerank: A Distributed Reputation Model for Open Peer-to-Peer
Networks

A. Yamamoto, D. Asahara, T. Ito, S. Tanaka, and T. Suda

Distributed and Adaptive Discovery Using Preference

R. Egashira, A. Enomoto, and T. Suda

Adaptable Peer-to-Peer Discovery of Objects that Match Multiple Keywords

M. Moore and T. Suda

Simulation of Information Propagation for Vehicles in Physical Communication
Network Models

H. Sasaki, H. Iwasaki, and T. Suda

Workshop 2 IPv6: Technology and Deployment

ROOM 906 09:30-17:30

Organizers:

Hiroshi Esaki, The University of Tokyo, Japan

Program Committee Members:

Jun Murai, Keio University, Japan

Akira Kato, The University of Tokyo, Japan

Hideki Sunahara, NAIST, Japan

Yoichi Shinoda, JAIST, Japan

Suguru Yamaguchi, NAIST, Japan

Satoshi Katsuno, TAO., Japan

Session 1: IPv6 Infrastructure

Chair: Hiroshi Esaki

IPv6 R&D and Commercial Activities in Europe

J. Palet and T. Chown

IPv6 Test-Bed Networks and R&D in China

H. Ning

Transition Mechanism in IP-Based Wireless Networks

S. Thakolsri, C. Prehofer, and W. Kellerer

6POWER, How to Reach All the Planet with IP

J. Palet

Session 2: Applications

Chair: Hiroshi Esaki

A Tele-Control Project over IPv6 in Technical High Schools

Y. Takamori, K. Tsukamoto, T. Nakamura, S. Yamada, T. Yamashita, T. Suetsugu,
T. Ogata, M. Mizoguchi, R. Nishimura, M. Otani, H. Egashira, H. Tanaka, K.
Watanabe, and H. Kondo

An Experiment Using JGN v6 at Tottori University of Environmental Studies

M. Imai and R. Atarashi

Multimedia and Routing Specific Applications on IPv6 Networks

Y. Hiranaka, M. Ohnuma, A. Yoshida, T. Taketa, T. Hosokawa, T. Yamagata,
S. Okoma, Y. Hirose, T. Yoneda, S. Takeda, T. Arashida, H. Nakagawa, T.
Kudaira, and K. Tanaka

Session 3: Implementation

Chair: Hiroshi Esaki

DNS Transport Size Issues in IPv6 Environment

K. Rikitake, H. Nogawa, T. Tanaka, K. Nakao, and S. Shimojo

An Evaluation of IPv6 Multicast Router in JGN IPv6 Networks

Y. Mikamo, H. Hayashi, T. Miyake, S. Katsuno, K. Kobayashi, and H. Esaki

High-Speed IPv6 Router/Switch Architecture

T. Yazaki, T. Kanetake, S. Akahane, Y. Sakata, K. Sugai, and H. Yano

USAGI IPv6 IPsec Development for Linux

M. Kanda, K. Miyazawa, and H. Esaki

Session 4: Network Architecture

Chair: Hideki Sunahara

Design and Implementation of Overlaying Multi-Homing Architecture

S. Uda, N. Ogashiwa, K. Nagami, K. Kondo, I. Nakagawa, Y. Shinoda, and H.
Esaki

Providing Network Services with Multiple Prefix Delegation

S. Suzuki

Session 5: Mobile

Chair: Hideki Sunahara

Active Packetization and Priority Description for Scalable Video over IPv6
Based Wireless Networks

C.-C. Lee, S.-W. Chen, and P.-C. Chang

Multihoming in Nested Mobile Networking

N. Montavont, T. Noel, and T. Ernst

Mobile IPv6 and AAA Architecture Based on WLAN

R. I. Chen, R.-C. Wang, and H.-C. Chao

Tuesday, 27 January 2004

Workshop 6 Cyberspace Technologies and Societies

ROOM 904 09:30-17:30

Workshop Chair: Nobuo Saito, Keio University

Program Co-Chairs:

Hideyuki Tokuda, Keio University

Yasushi Kiyoki, Keio University

Jun Murai, keio University

Organizers:

Naoki Ishibashi, Keio University
Masaki Minami, Keio University
Naofumi Yoshida, Keio University
Jun'ichi Yura, Keio University

Session 1: Computing and Networking in Cyberspace

Improving Security for Ubiquitous Campus Applications
K. Matsumiya, S. Tamaru, G. Suzuki, J. Nakazawa, K. Takashio, and H. Tokuda
SF2: Smart Furniture for Creating Ubiquitous Applications
H. Tokuda, K. Takashio, J. Nakazawa, K. Matsumiya, M. Ito, and M. Saito
The Design of OSPF Extension for Handling Unidirectional-Links
S. Fujieda, H. Kusumoto, Y. Ohara, and J. Murai
Shared Questionnaire System for School Community Management
H. Kubo, H. Ohashi, M. Tamamura, T. Kowata, and I. Kaneko
An Automatic Generation Method of 3D Visualization for Holistic and Detail Relationships on E-Learning Environment
N. Yoshida, K. Hirata, and J. Miyazaki

Panel Session 1

Cyber Infrastructure and Governance of Next Decades
H. Tokuda, T. Hagino, J. Murai, Y. Sone, and M. Umegaki

Session 2: Knowledge and Multimedia in Cyberspace

A Prototype Implementation of Metadata Generation for Image Retrieval
H. Sasaki and Y. Kiyoki
Smart-Media Design Process with Scenario Based Modeling
K. Kuroda, K. Ochiai, M. Hori, and N. Okude
Smart-Media Applications Created by Scenario Based Modeling
T. Matsumoto, Y. Wada, M. Norimatsu, and N. Okude
Content-Based Filtering System for Music Data
K. Iwahama, Y. Hijikata, and S. Nishida
An Implementation of a Semantic Associative Search Space for Medical Document Databases
M. Kawamoto, Y. Kiyoki, N. Yoshida, S. Fujishima, and S. Aiso

Panel Session 2

Future Directions for Cyber Knowledge and Databases
Y. Kiyoki, M. Inakage, M. Satoh, and M. Tomita

Session 3: Multimedia Applications in Cyberspace

HTTP-Proxy-Assisted Automatic Video Indexing for E-Learning
Y. Tanaka, T. Itamiya, T. Hagino, and H. Chiyokura
DACs: Distance Aware Collaboration System for Face-to-Face Meetings
H. Egi, N. Ohsuga, A. Nakada, H. Shigeno, and K. Okada
Meta-Chronicle: A Spatial and Temporal Multidatabase System and Its Application to Histories
N. Ishibashi and Y. Kiyoki
A Meta-Level Career-Design Support System for Connecting Educational and Occupational Databases
Y. Takahashi and Y. Kiyoki

Panel Session 3

Cyber Applications for Next Societies
J. Murai, Y. Hibata, K. Kumasaka, A. Maeda, H. Ohiwa, N. Saito, and H. Shimizu

Workshop 8 High Performance Grid Computing and Networking

ROOM 905 09:30-17:30

Organizers:

Satoshi Matsuoka, Tokyo Institute of Technology
Kento Aida, Tokyo Institute of Technology

Session 1: Application 1

Chair: Katsuki Fujisawa

A Prototype toward Japanese Virtual Observatory (JVO)

M. Ohishi, Y. Mizumoto, N. Yasuda, Y. Shirasaki, M. Tanaka, S. Honda, and Y. Masunaga

A Proposal of Pipelined Image Processing in a Grid Environment

T. Akiyama, H. Yamashita, T. Hara, S. Kato, S. Shimojo, and S. Nishio

The Second Trans-Pacific Grid Datafarm Testbed and Experiments for SC2003

O. Tatebe, H. Ogawa, Y. Kodama, T. Kudoh, S. Sekiguchi, S. Matsuoka, K. Aida, T. Boku, M. Sato, Y. Morita, Y. Kitatsuji, J. Williams, and J. Hicks

A Remote Operation System for the 3MV Electron Microscope with a Both-Direction Conversation Capability

H. Mori, K. Yoshida, S. Shimojo, H. Nogawa, T. Akiyama, H. Takahashi, and T. Shibayama

Session 2: Application 2

Chair: Satoshi Matsuoka

High Performance Grid and Cluster Computing for Some Optimization Problems

K. Fujisawa, M. Kojima, A. Takeda, and M. Yamashita

Grid-Enabled Applications in Molecular Dynamics Simulations Using a Cluster of Dedicated Computers

T. Amisaki and S.-I. Fujiwara

Heterogeneous Remote Computing System for Computational Astrophysics with OmniRPC

K. Onuma, T. Boku, M. Sato, D. Takahashi, H. Susa, and M. Umemura

Programming Environment Based on Distributed Shared arrays for High-Performance Scientific Computing

A. Nomoto, W. Kaneko, T. Terada, S. Nakamura, and K. Shimizu

Session 3: Networking and Tool

Chair: Toyokazu Akiyama

On Modeling GridFTP Using Fluid-Flow Approximation for High Speed Grid Networking

H. Ohsaki and M. Imase

Transport Protocols for Fast Long-Distance Networks: Comparison of Their Performances in JGN

K. Kumazoe, Y. Hori, M. Tsuru, and Y. Oie

Autonomous Configuration of Grid Monitoring Systems

K. Shirose, S. Matsuoka, H. Nakada, and H. Ogawa

Performance Evaluation of OmniRPC in a Grid Environment

Y. Nakajima, M. Sato, T. Boku, D. Takahashi, and H. Gotoh

Session 4: Task Allocation

Chair: Hidemoto Nakada

A New Task Scheduling Method for Distributed Programs Which Require Memory Management in Grids

H. Koide and Y. Oie

A Comparison among Grid Scheduling Algorithms for Independent Coarse-Grained Tasks

N. Fujimoto and K. Hagihara

Logical Cluster Construction in a Grid Environment for Similar Protein Retrieval

T. Ohkawa, Y. Nonomura, and K. Inoue

Wednesday, 28 January 2004

Workshop 4 Metadata Applications on the Broadband Network

ROOM 906 14:00-17:30

Organizers:

Ray Atarashi, IIJ, Japan

Junichi Kishigami, NTT, Japan

Shigeo Sugimoto, Tsukuba University, Japan
Hiroshi Yasuda, The University of Tokyo, Japan

Session 1: Metadata Applications

Chair: Ray Atarashi, IIJ

A Metadata Framework for Generating Web-Based Learning Materials
Y. Shirota

An XQuery Engine for Digital Library Systems that Support XML Data
J.-H. Kang, C.-S. Kim, and E.-J. Ko

A Study on Information Media Symmetry Based on Data Types
K. Ohno

Session 2: Metadata, Communications and Ubiquitous

Chair: Junichi Kishigami, NTT

An Approach to Integrated Access for a Variety of Museum Information
A. Yamada, F. Adachi, Y. Komachi, and R. Atarashi

Policy Based Content Delivery Management Using Metadata
M. Kawarasaki and R. Atarashi

Rendezvous Enhancement for Conference Support System Based on RFID
Y. Kawakita, O. Nakamura, S. Wakayama, J. Murai, and H. Hada

Thursday, 29 January 2004

Workshop 9 Ubiquitous Services and Networking

ROOM 906 14:00-17:30

Organizers:

Junichi Kishigami, NTT, Japan
Kazuo Imai, NTT DoCoMo, Japan

An Evolutionary Approach towards Ubiquitous Communications: A Security
Perspective

A. R. Prasad, P. Schoo, and H. Wang

Security and Trust Issues in Ubiquitous Environments—The Business-to-Employee
Dimension

T. Walter, L. Bussard, P. Robinson, and Y. Roudier

Context Spaces Architectural Framework

A. Tarlano and W. Kellerer

A Display Centric Ubiquitous Information System—"Dokodemo-Display"

T. Sekiguchi, S. Iguchi, M. Ishii, J. Maeoka, A. Ito, and T. Furuhashi

Friday, 30 January 2004

Workshop 3 Internet to Support Social Welfare

ROOM 905 09:30-15:30

Organizers:

Sumi Heral, University of Florida
Hideki Sunahara, NAIIST
Katsuyuki Yamazaki, KDDI Labs.

Session 1: Healthcare, Tele-medicine and IAA (I Am Alive) System

Chair: Katsuyuki Yamazaki

Remote Healthcare Education Based on Synchronous and Asynchronous High Quality
Video Application

Y. Shibata and Y. Sasaki

Experiment of Internet-Based Tele-medicine in Amami Rural Islands

A. Isechi, C. Oda, R. Shinkura, S. Akiba, H. Fujikawa, and K. Yamazaki

Accessibility Guidelines for Victim Information Registration and Retrieval
Systems

T. Ebina and H. Ohno

Session 2: Emergency and Lifeline Support

Chair: Hideki Sunahara

Standardization Activity on Emergency Telecommunication System in ITU-T

I. Murase, M. Murano, and H. Ohno

Disaster Information System and Its Wireless Recovery Protocol

N. Uchida, H. Asahi, and Y. Shibata

QoS Support for VoIP Traffic to Prepare Emergency

M. Noro, T. Kikuchi, K. Baba, H. Sunahara, and S. Shimojo

Lifeline Communication System in the Internet

T. Kikuchi, M. Noro, K. Yamazaki, H. Sunahara, and S. Shimojo

Session 3: Post ICADI Workshop

Chair: Sumi Helal

Pervasive Computing Research on Aging, Disability and Independence

W. C. Mann and S. Helal

Workshop 7 Peer-to-Peer Internetworking

ROOM 906 09:30-15:30

Organizers:

Yusuke Doi, Toshiba Corporation, Japan

Youki Kadobayashi, PhD, Nara Institute of Science and Technology, Japan

Yuichi Kawasaki, Jnutella.org, Japan

Hiroyuki Morikawa, PhD, University of Tokyo, Japan

Fumio Teraoka, PhD, Keio University, Japan

Session 1: Routing in Overlay Networks

Chair: Kenji Saito

Mitigating Routing Misbehaviour of Rational Nodes in CHORD

M. Portmann, S. Ardon, and A. Seneviratne

Achieving Heterogeneity and Fairness in Kademlia

Y. Kadobayashi

Peer Group Rendezvous Using Intersection among Peer Groups on DHT

Y. Doi

Session 2: Mobility and Overlay Networks

Chair: Yusuke Doi

Content Cruising System under Sparse Movements of Nodes

T. Ishida, S. Hisamatsu, K. Saito, M. Minami, and J. Murai

P2P Platform Implementation on PDAs Organizing Ad Hoc Wireless Network

T. Iwata, S. Miyazaki, M. Takemoto, K. Ueda, and H. Sunaga

Session 3: Collaboration and Trust in Peer-to-Peer Applications

Chair: Youki Kadobayashi

Vineyard: A Collaborative Filtering Service Platform in Distributed Environment

T. Oka, H. Morikawa, and T. Aoyama

Maintaining Trust in Peer-to-Peer Barter Relationships

K. Saito