## Table of Contents

2001 Symposium on Applications and the Internet – Workshops (SAINT 2001 Workshops)

**Reviewers**

---

**Panel on Federal Networking Research Programs**

*Chair: Tatsuya Suda*

- Marjory Johnson from NASA
- Doug Schmidt from DARPA
- Program Director from DARPA: TBA
- Taieb Znati, NSF Networking Research Program Director

**Workshop on Highly Distributed Systems**

*Organizer: Tatsuya Suda*

- A Trend to Super-Distributed System and Standardization Activity in OMG
  
  *S. Sameshima, K. Kawano, and M. Funabashi*  
  
  - 5

- Adaptive Networking Architecture for Service Emergence
  
  *T. Ito, T. Suda, T. Nakamura, and M. Matsuo*  
  
  - 9

- Discovery Mechanisms for Highly Distributed Systems
  
  *M. Wang*

- The Design of Service Synthesizer on the Net
  
  *M. Minami and T. Aoyama*

**Panel on Highly Distributed Systems**

*Panelists: Katsumi Kawano, Hitachi*

- Michael Wang, UCI
- Hirayuki Morikawa, Tokyo University
- Tomoko Ito, NTT

**Workshop on Internet Supported Education**

*Organizers: Steve Seidman and Willis King*

- MANIC: An Open-Source System to Create and Deliver Courses over the Internet
  
  *A. Schapira, K. De Vries, and C. Pedregal-Martin*  
  
  - 21
Aspects of IntelligentBox as an Internet-Supported Tutoring System .......................................................... 27
Y. Okada and E. Itoh

Design and Implementation of Mini-Webs for Educational Uses ........................................................... 33
N. Hatzigeorgiu, G. Carayannis, and I. Antoniou-Kritikou

NACSIS-ILL WWW Based Training Course ......................................................................................... 39
T. Inoue and H. Ueno

Study on Caching, Mirroring, and Pre-fetch Methods for Educational Internet .............................................................. 45
M. Suzuki, H. Yokoyama, T. Mizuike, S. Muramatsu, K. Matsumoto, and K. Hashimoto

The Internet as a Resource for Teaching Non-Internet Topics .............................................................. 51
X. Faulkner and F. Culwin

Using the Internet to Help Meet Learning Goals in a Conventional University Environment — Some Experiences ................................................................. 56
I. Newman

The Evaluation of Educational Service Integration in Integrated Virtual Courses .............................................. 61
C. Pahl

Comparison Using AHP of Web-Based Learning with Classroom Learning ...................................................... 67
H. Murakoshi, T. Kawarasaki, and K. Ochimizu

Student Evaluation in an International Collaborative Project Course ...................................................... 74
A. Pears, M. Daniels, A. Berglund, and C. Erickson

Workshop on Software Engineering on the Internet
Organizers: Joseph Urban, James Isaak, Patrick Bobbie

Agent Based Requirements Evolution over the Internet ............................................................................. 83
C. Chang and L. Cai

Establishing a Measurement Program for the World Wide Web ............................................................. 89
C. Boldyreff, C. Gaskell, A. Marshall, and P. Warren
Workshop on Global Telehealth/Telemedicine & the Internet
Organizers: Frank Ferrante and Helga Rippen

Keynote Presentations: US and International Perspective on Telemedicine/Telehealth

HHS Perspective on Telemedicine and Telehealth
   D. Puskin

World Health Organization Perspective on Telemedicine and Telehealth in Today's Internet Environment
   Speaker TBD

Global Activities in Telemedicine

Can Territorial Health Information Support Strategic Decision Making?
   The Approach by Objects for the Internet-Based Health Solution
   R. Bernardon

Collaborative Activity in Health Care and Implications for Technology
   R. Rajani

Telemedicine Projects in India
   S. Sood

Convergence of Medical Devices, Telehealth and eDisease Management:
   Emerging Successful Business and Clinical Models
   V. Kuraitis

The MEDICO Program: An Internet-Based Telemedicine Model in Zimbabwe
   W. Kohn

Keynote Panel: Security for Telehealth — Global Activities

International Protection of Health Information
   Speaker TBD

Ensuring Privacy and Security of Healthcare Information to Meet HIPAA Regulations
   H. Hsiung; alternate F. Ferrante

PAHO Perspective on eHealth
   B. Rodrigues
Regulation vs. Self-Regulation on the Internet and Its Impact on Telemedicine/Telehealth

Internet Regulation Impact on Telemedicine
   A. Risk

Industry's Response to Self-Regulation
   M. Rozen

Regulations
   R. Cleland

Technology Assessment and Outcomes

Assessment and Medical Outcomes Using Wireless Technology and Internet
   J. Svetz

Assessment of Call Center Technology in Healthcare Environment
   H. Bernett

Steps to Successful Data Warehousing for Telehealth/Telemedicine
   J. Ostling and R. Cintron-Alben

Keynote Panel: State of the Art in Telemedicine

State of the Art in Telemedicine
   L. Kun

DoD Perspective of eHealth
   F. Peters

Medical Standards - TBD

FDA Regulatory Perspective on Telehealth
   M. Colón-Pullano

How to for Tele-Med/Health — Training Session Presentations

Collaboration for an Effective Telehealth Project
   C. Bruno

Human Infrastructure — Health Management Systems
   Speaker TBD

Funding Opportunities in Telemedicine
   H. Russo

viii
Telemedicine in the New Millennium — Medical/Technical Advances Using Internet

Tomorrow's Tools for the Elderly and How Technology Helps
A. Kinsella

E-Care: Made Possible by Technologic Convergence .......................................................... 127
R. Pion

Using a Pocket PC to Implement Telemedicine for Homecare ........................................... 129
L. Ruffino

Telehealth Applications at a Burn Center
L. Solem

Workshop on Digital Libraries
Organizer: Hiroyuki Tarumi

Efficient Similarity-Based Retrieval of Temporal Structures ............................................ 133
P. Yamuna and K. Candan

Interactive Movie-Based Walk-through System for Internet Users ................................ 139
M. Hara and K. Kunieda

Representation of Reuse Mechanisms for Digital Work with Multiple
Right-Holders ....................................................................................................................... 145
M. Kumazawa, A. Yamada, H. Hoshino, Y. Kambayashi, 
and M. Mohania

Versioning the Dublin Core across Multiple Languages and over Time ........................... 151
S. Sugimoto, T. Baker, M. Nagamori, T. Sakaguchi, 
and K. Tabata

Workshop on Intelligent Transport Systems
Organizer: Ryuji Kohno

Intelligent Parking Reservation Service on the Internet ...................................................... 159
K. Inaba, M. Shibui, T. Naganawa, M. Ogihara, 
and N. Yoshikai

Advanced DSRC System for Supporting Mobile IP .......................................................... 165
H. Choi, C. Yim, and D. Oh

A Study of Info-Communication Technologies Required in ITS
Networks .............................................................................................................................. 171
T. Munaka, Y. Ito, and S. Kubota
Towards Unconstrained Mobility

M. Angermann, U.-C. Fiebig, and P. Robertson

177

Workshop on Mobile Internet

Organizer: Kazuo Imai

Some Issues for 4G
A. Campbell

185

Mobile System Technologies beyond Current 3G
T. Koljonen

Meeting Demands of Mobile Internet Applications
J. Stekas

Toward Mobile Multimedia in Next Generation Networks
A. Takeshita

194

Workshop on Multimedia Internet

Organizer: Shiro Sakata

Virtual Video Frameworks for Generic Video Applications on Internet
K. Okamura, M. Arikawa, Y. Yoshimura, and M. Murao

201

Template-Based, Format-Extensible Authoring for BS Digital Data
Broadcast Service
R. Ogawa, K. Yanoo, and D. Taguchi

207

ENICOM'S Bandwidth Broker
M. Hashmani and M. Yoshida

213

Author Index

221