SAINT-2003 SYMPOSIUM PROGRAM

Refreshments will be provided during both the morning breaks and afternoon breaks in all five days. No lunch will be provided.

Monday, 27 January 2003

SESSION W4-1 - IPv6 and Applications I
SALON E 9:00-17:30
Organizer: Hiroshi Esaki, University of Tokyo, Japan

SESSION W1 - Satellite Internet Collaboration: Our Challenge in Asian Internet Interconnection Initiatives
SAWGRASS 9:00-17:30
Organizers: Jun Murai, Keio University, Japan; Suguru Yamaguchi, Nara Advanced Institute of Science and Technology, Japan; Shoko Mikawa, Keio University, Japan; Achmad Husni Thamrin, Keio University, Japan

SESSION W2 - Service-Oriented Computing: Models, Architectures and Applications
OLEANDER 9:00-15:00
Organizers: Vincenzo D’Andrea, University of Trento, Italy; Mike Papazoglou, Tilburg University, Netherlands & University of Trento, Italy; Paolo Travasco, IRST, Italy; Christoph Bussler, Oracle Corporation, USA; Barbara Pernici, Politecnico di Milano, Italy; Jian Yang, Tilburg University, Netherlands; Maria E Orlowska, Univ. of Queensland, ITEE, Australia

SESSION W5 - AI Applications of the Internet
OLEANDER 15:30-17:30
Organizers: Kenichi Yoshida, University of Tsukuba, Japan; Kazuo Hashimoto, KDDI LABS USA Inc., USA

Tuesday, 28 January 2003

SESSION W4-2 - IPv6 and Applications II
SALON E 9:00-17:30
Organizer: Hiroshi Esaki, University of Tokyo, Japan

SESSION W7 - Security and Assurance in Ad hoc Networks
OLEANDER 9:00-15:00
Organizers: Alec Yasinsac, Florida State University, USA; Mike Burmester, Florida State University, USA

SESSION W6 - Emergency and Lifeline Support of the Internet
OLEANDER 15:30-17:30
Organizers: Hideki Sumahara, Nara Institute of Science and Technology, Japan; Katsuyuki Yamazaki, KDDI Labs, Japan

SESSION T1 - Tutorial "Towards a Global Information Society"
SAFON C/D 9:00-12:00
Speaker: Wojciech Cellary, Department of Information Technology, The Poznan University of Economics, POLAND

SESSION T2 - Tutorial "Internet Electronic Business and Web Services Architecture and Applications"
SAFON C/D 13:30-17:00
Speaker: Jen-Yao Chung, Institute for Advanced Commerce, IBM T. J. Watson Research Center, Yorktown Heights, New York, USA

WELCOME RECEPTION
SAWGRASS 17:30-19:30

Wednesday, 29 January 2003

SESSION K1 Keynote: "Challenges for Next-generation Internet"
SAFON C/D 8:45-10:15
Chair: Carl Chang, Iowa State Univ., USA
Speaker: Krishan Sabnani, Senior Vice President, Networking and Multimedia Communications Research, Bell Labs, USA

SESSION P1 Mobile Internet
SAFON C 10:45-12:15
Chair: Tadanobu Okada, NTT Lab., Japan

• A Generalized Target-driven Cache Replacement Policy for Mobile Environments: L. Yin, G. Cao, Y. Cai, Pennsylvania State University, USA

• Context Attributes: An Approach to Enable Context-Awareness for Services Discovery: C. Lee, S. Helal, University of Florida, USA

• Environment Adaptive XML Transformation and its Application to Content Delivery: A. Kimno, Y. Yonemoto, M. Morioka, M. Etoh, NTT DoCoMo Multimedia Laboratories, Japan

SESSION P2 Collaboration Technology I
SAFON D 10:45-12:15
Chair: Wojciech Cellary, Poznan Univ. of Economics, Poland

• Human Network based Filtering: The Information Propagation Model Based on Word-of-Mouth communication: S. Takeuchi, Osaka University, Japan; J. Kamahara, Kobe University of Mercantile Marine, Japan; S. Shimojo, H. Miyahara, Osaka University, Japan

• Virtual Collaboration Spaces: The EVE Community: C. Bouras, E. Giannaka, T. Tsialtos, University of Patras, Greece

• Experimenting a Flexible Awareness Management Abstraction for Virtual Collaboration Spaces: R. Jota, J. Martins, A. Ristolva, J. Pereira, INESC-ID/Technical University of Lisbon, Portugal

SESSION N1 Panel “Broadband Contents Distribution Service and Technologies”
SAFON E 10:45-12:15
Chair: M. Imase, Osaka University, Japan
Panelists: Hiroyuki Fuchigami, NEC Corporation, Japan; Michio Kurata, Dai Nippon Printing Co., Ltd., Japan; Eiji Kuwana, NTT Broadband Initiative Inc, Japan; Scott Stevens, Juniper Networks, Inc., Japan; Xin Wang, ContentGuard Inc, USA

SESSION P3 Internet Computing Models
SAFON C 13:30-15:00
Chair: Nayeem Islam, DoCoMo Communi. Lab. USA, USA

• A Scalable Protocol for Deadlock and Livelihood Free Co-Allocation of Resources in Internet Computing: J. Park, Pennsylvania State University, USA

• Demonstrating the ABLES System Using Real-World Scenario: J. Murphy, A. Mills-Tetley, L. Wilson, G. Johnston, B. Xie, Dartmouth College, USA


SESSION P4 Collaboration Technology II
SAFON D 13:30-15:00
Chair: Ly Sauer, Sandia National Labs, USA

• An Exclusive Version Locking Scheme in Internet-based Real-time Group Editors: L. Xue, M. Orgun, Macquarie University, Australia
Thursday, 30 January 2003

SESSION V8 - Metadata Applications for the Next Generation Internet
SALON E 13:30-17:30
Organizers: Ray Atarashi, CRL, Japan; Shigeo Sugimoto, Tsukuba Univ., Japan; Jay Kishigami, NTT, Japan

SESSION V5 Internet Operation and Performance
SALON C 15:30-17:00
Chair: Linda Wilson, Dartmouth University, USA

SESSION V6 Internet Applications
SALON D 15:30-17:00
Chair: Golden G. Richard III, University of New Orleans, USA

CONFERENCE BANQUET
SALON A 17:30-20:00
BANQUET SPEECH: "Higher Education and the Internet" (tentative)
SALON A 18:00-19:00
Speaker: Charles E. Young, President, University of Florida, Gainesville, FL

SESSION K2 Keynote: "Creating Magic through Technology"
SALON C/D 8:45-10:15
Chair: Sumi Helal, Univ. of Florida, USA
Speaker: Andy Schwilch, Director New Technology, Walt Disney World, USA

SESSION P7 Web Caching
SALON C 10:45-12:15
Chair: Kanichana Kanchanasat, AIT, Thailand

SESSION P8 Internet Security
SALON D 10:45-12:15
Chair: James Davis, Iowa State University, USA

SESSION P9 Peer-to-Peer Models
SALON C 13:30-15:00
Chair: Naoki Wakamiya, Osaka Univ., Japan

SESSION P10 Network Measurements and Their Applications
SALON D 13:30-15:00
Chair: Katsuyuki Yamazaki, KDDI Lab., Japan

SESSION W3 - E-Business
OLEANDER 13:30-17:30
Organizers: Hitoshi Okada, National Institute of Informatics, Japan; Jean-Michel Sahut, RESFIN Laboratory Institut National des Telecommunications, France; Nobuhiko Sugiura, Financial Services Agency of Japanese Government, Japan

SESSION P11 Network and Protocol Architecture
SALON C 15:30-17:00
Chair: Katsuyuki Yamazaki, KDDI Lab., Japan

SESSION W2 - Panel "Comparing Web Services in the .NET Framework with Java's J2EE and Related Technologies"
OLEANDER 10:45-12:15
Chair: Tim Lindquist, Arizona State University East, USA
Panelists: Steve Jones and Steve Meyfroidt, Architecture & Development, Netdecisions, UK; Joseph William, Sun Microsystems, USA; Gerry Miller, Microsoft, USA

SESSION W4 - Panel "Adapted Content Delivery for Different Contexts"
OLEANDER 10:45-12:15
Chair: Tim Lindquist, Arizona State University East, USA
Panelists: Steve Jones and Steve Meyfroidt, Architecture & Development, Netdecisions, UK; Joseph William, Sun Microsystems, USA; Gerry Miller, Microsoft, USA

SESSION W5 - Panel "Exploiting Both Pattern Relationships for Intrusion Detection"
OLEANDER 10:45-12:15
Chair: Tim Lindquist, Arizona State University East, USA
Panelists: Steve Jones and Steve Meyfroidt, Architecture & Development, Netdecisions, UK; Joseph William, Sun Microsystems, USA; Gerry Miller, Microsoft, USA
Osaka University, Japan; K. Matsumoto, Nara Institute of Science and Technology, Japan; T. Kikuno, Osaka University, Japan

SESSION P12 Performance Evaluation
SALON D 15:30-17:00
Chair: Jingsha He, Fujitsu Lab. of America, USA
• Delay and jitter Minimization in Active Diffusion Computing: S. Yang, J. Khan, Kent State University, USA
• Enabling Compatibility between TCP Reno and TCP Vegas: W. Feng, S. Vanichpun, Los Alamos National Laboratory, USA
• Steady State and Transient Behavior Analyses of TCP Connections Considering Interactions between TCP Connections and Network: H. Hisamatsu, H. Ohsuki, M. Murata, Osaka University, Japan

Friday, 31 January 2003

SESSION K3 Keynote: “Folding Space: Learning through Collaboration and Immersion”
SALON C/D 8:45-10:15
Chair: Yuji Oie, Kyushu Inst. of Tech., Japan
Speaker: James C. Oliverio, Professor and Director, Digital Worlds Institute, University of Florida, USA

SESSION P13 Information Retrieval and Fusion
SALON C 10:45-12:15
Chair: Kenichi Yoshida, Tsukuba Univ., Japan
• Towards Semantics-Based Prefetching to Reduce Web Access Latency: C. Xu, T. Ibrahimm, Wayne State University, USA
• Extracting Spatial Knowledge from the Web: Y. Morimoto, M. Aono, M. Houlle, IBM Tokyo Research Laboratory, Japan; K. McCurley, IBM Almaden Research Center, USA
• Service oriented programming: P. Nandi, S. Kumarman, T. Heath, IBM T.J. Watson Research Center, USA; K. Bhaskaran, R. Das, IBM Software Group, USA

SHORT PAPERS I E-services
SALON D 10:45-12:15
Chair: Yasuo Okabe, Kyoto Univ., Japan
• Mediating Heterogeneous Web Services: P. Pires, M. Mattoso, M. Benevides, Federal University of Rio de Janeiro, Brazil
• Conversational Multi-modal browser: An Integrated Multi-Modal Browser and Dialog Manager: A. Tiwari, R. Hosn, S. Maes, IBM T.J. Watson Research Center, USA
• Bilateral E-Services Negotiation Under Uncertainty: G. Yee, L. Korba, National Research Council, Canada
• NTM-Agent: Text Mining Agent for Net Auction: Y. Kusumura, Y. Hijiikata, S. Nishida, Osaka University, Japan

SHORT PAPERS I14 Mobile and Internet Agents
SALON C 13:30-15:00
Chair: Giacomo Cabrini, University of Modena, Italy
• Mobile Agent Based Realization of a Distance Evaluation System: V. Janwai, S. Iyer, IIT Bombay, India
• A Policy-based Mobile Agent Infrastructure: R. Montanari, G. Tonti, Universita di Bologna; C. Stefanelli, Universita di Ferrara, Italy
• Implementing Role-based Interactions for Internet Agents: G. Cabrini, L. Leonardi, F. Zambonelli, University of Modena, Italy

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SHORT PAPERS II Issues in Emerging Networks
SALON D 13:30-15:15
Chair: Katsunori Yamaoka, Tokyo Institute of Technology, Japan
• A Reliable Multicast Protocol for Unidirectional Satellite Link: R. Basu, K. Kanchanasat, Asian Institute of Technology, Thailand

Friday, 31 January 2003

SHORT PAPERS III Web Related Technology
OLEANDER 13:30-15:15
Chair: Hiroshi Esaki, Tokyo Univ., Japan
• Mock-up driven Fast-Prototyping Methodology for Web Application Development: J. Zhang, infINET Solutions, USA; J. Chung, IBM T.J. Watson Research Center, USA
• Design Considerations for Hierarchical Web Proxy Server using iSCF: H. Lin, Dongseo University, Korea; D. Du, University of Minnesota, USA
• WebDigest: Layout-preserving Visually Enhanced Web Pages: J. Maeda, K. Fukuda, H. Takagi, C. Asakawa, IBM Tokyo Research Laboratory, Japan
• An XML/Xpath Query Language and Xmark Performance Study: K. Davis, Y. Zhan, University of Cincinnati, USA; R. Davis, Miami University, USA

CONCLUDING PANEL
SALON C 15:30-16:30

SAINT-2003 Workshops

Workshop 1: Satellite Internet: Technology, Application and Operation in Asia Pacific
Organizers: J. Murai, Keio University, Japan; S. Yamaguchi, Nara Advanced Institute of Science and Technology, Japan; S. Mikawa, Keio University, Japan; A. Thamrin, Keio University, Japan

Session 1: Satellite Internet activities in Asia Pacific
Chair: J. Murai
• Satellite Communication in the Internet: It’s history and the Technology: J. Takei and J. Murai
• Steps beyond Internet Collaboration: our challenges in Asian Internet Interconnection Initiatives: S. Yamaguchi, T. Baba, and J. Murai
• The deployment of UDL network on satellite circuit with training workshop: Y. Tsuchimoto, S. Mikawa, and K. Okawa

Session 2: Satellite Internet technologies
Chair: K. Kanchanasat
• Dynamic Bandwidth Configuration System for Satellite Internet: H. Watanabe and A. Thamrin
• An ATM Network Test bench over a C-Band Satellite System: S. Lim, Y. Pang, H. Cheng, and Y. Loh
• PIM-SM Configuration and Scalability on Satellite Unidirectional Links: A. Thamrin, H. Izumiya, and H. Kusumoto

Session 3: Operating Satellite Internet environments
Chair: S. Yamaguchi

• Pixel Navigator - A Simple Mobile Internet Paradigm : P. Ong, A. Rana, F. Battaglia, Lucent Technologies, USA
• Out-of-Sequence in Packet Arrivals due to Layer 2 ARQ and Its Impact on TCP Performance in W-CDMA Networks: H. Koga, T. Ikenaga, Kyushu Institute of Technology, Japan; Y. Horii, Kyushu Institute of Design, Japan; Y. Oie, Kyushu Institute of Technology, Japan
• Measurement and Analysis of Multimedia Application and IPv6 ADSL Internet Access Network: S. Katsuno, Telecommunication Advancement Organization of Japan, Japan; T. Kubo, K. Yamazaki, KDDI R&D Laboratories, Japan; H. Esaki, University of Tokyo, Japan
• Web-Based Feature Reduction System: A Case Study: H. In, T. Foster, J. Surprise, S. Jung, D. Simmons, Texas A&M, USA; H. Fujihara, Hewlett Packard, USA
Session 4: Applications of Satellite Internet
Chair: T. Baba
- A Multicast Push Caching System over a UDLR Satellite Link: P. Basu
- The Design and Implementation of Data Dissemination Application Using Multicast over Satellite Network: M. Nishida, K. Okawa, and J. Murai
- Satellite Bandwidth Requirements for an MCS Based Multimedia Conference: R. Sureswaran, R. Budiarto, and V. Siva
- Establishment of a lecture environment using Internet Technology over satellite communication in Asian Countries: S. Mikawa, K. Okawa, and J. Murai

Workshop 2: Service Oriented Computing: Models, Architectures and Applications
Organizers: V. D’Andrea, University of Trento, Italy; M. Papazoglou, Tilburg University, Netherlands & University of Trento, Italy; P. Traverso, RST, Italy; C. Bussler, Oracle Corporation, USA; B. Pernici, Politecnico di Milano, Italy; J. Yang, Tilburg University, Netherlands; M. Orlowska, Univ. of Queensland, ITEE, Australia

Session 1: Interaction and Collaboration of Services (I)
Chair: C. Bussler
- Data Storage Requirements for the Service Oriented Computing: T. Risse and P. Knežević
- Planning for Web Services the Hard Way: M. Carman and L. Serafini
- Formalizing Governance in Virtual Districts: E. Colombo and C. Francelanci

Session 2: Interaction and Collaboration of Services (II)
Chair: P. Traverso
- UDDIe: An Extended Registry for Web Services: A. ShaikhAli, O.F. Rana, R. Al-Al and D.W. Walker
- When and Where is a Service? Investigating Temporal and Locative Service Properties: J. O’Sullivan and D. Edmond
- An Approach to Web Service Compatibility in Cooperative Processes: V. De Antonellis, M. Melchiori and P. Plebani

Session 3: Service Oriented Architectures, Frameworks and Models
Chair: V. D’Andrea
- Service Oriented Architectures for Supporting Environments in eGovernment Applications: M. Marchese
- Web-Services Modeling for E-Marketplace: P. Tiako
- Service Oriented Architecture: R. Perrey and M. Lycett

Workshop 3: E-business
Organizers: H. Okada, National Institute of Informatics, Japan; J. Sahut, RESFIN Laboratory Institut National des Telecommunications, France; N. Sugiuara, Financial Services Agency of Japanese Government, Japan

Session 1: New trends and Conditions of E-business
Chair: J. Sahut

- Implementation and Operation of Satellite Based Broadcast IP Network: H. Izumiyama and H. Kusumoto
- Data Link Monitoring on the Satellite Based Network in the Internet: K. Kataoka, H. Watanabe, and J. Murai
- Characterization, Analysis, and Visualization of traffic in the Asian Internet Interconnection Initiatives (ASi)’s Satellite-based Research Network Test Bed: E. Vinas and T. Baba
- The Survey of the Mobile Internet, Usage and Awareness, Study for M-Commerce: K. Naruse
- Pricing and Price Dispersion in e-commerce: B. Leloup and R. Waldeck
- Intelligent Agent Stakes for E-Commerce: M. Galuswaska and J. Sahut
- Licenses: strategic tools for software publishers? An application to E-Business: L. Muselli
- Financing for dot.com: J. Lantz
- Virtual incubators: J. Arolto

Session 2: E-business Regulations/User Protection and Confidence
Chair: H. Okada
- A Comparative Study of Personal Data Protection Bill in Japan with UK Data Protection Act 1998: I. Takahashi
- An Insight for Consequences of E-Business: Possible Case of Cross Border Trading without Using Hard Currency: S. Uesugi

Chair: N. Sugiuara
Panelist: H. Okada, J. Sahut

Workshop 4: IPv6 and Applications
Organizer: H. Esaki, the University of Tokyo, Japan

IPv6 testbed
- Results and Plans of the IPv6 Testbed Initiatives within the European Commission IST Programme: T. Chown and J. Palet
- IPv6 initiatives within the European National Research and Education Networks (NRENs): T. Chown
- IPv6 Deployment in China: C. Li, J. Wu, Y. You and M. Chen
- The IPv6 Testbed and Projects in Taiwan: N.F. Huang, H.C. Chao, R.C. Wang and A. Chen

Infrastructure
- The DNS and IPv6: B. Manning

Applications
- Problems and Tentative Solutions in InternetCAR Testing with IPv6: K. Uehara, H. Sunahara, and J. Murai
- From IPv4 to IPv6: The Case of OpenH323 Library: C. Bouras, A. Gkamas, and K. Stamos
Workshop 7: Security and Assurance in Ad hoc Networks
Organizers: A. Yasinsac, Florida State University; M. Burmester, Florida State University
Session 1: Authentication and Applications I
Chair: D. Evans
- Defining Authorization Domains using Virtual Devices: S. Sovio, N. Asokan, and K. Nyberg
- Certificate Management in Ad hoc Networks: M. C. Morogan and S. Muftic

Session 2: Authentication and Applications II
Chair: P. Papadimitratos
- Distributed Authentication for Peer to Peer Networks: P. Dasgupta and S. Gokhale
- Securing Authentication and Privacy in Ad hoc Partitioned Networks: S. Kalaperumal

Chair: R. Henning
Panelists: U. Mattsson, C. Ko, G. Suarez, T. Bashara, R. Henning
- Vulnerability Assessment in Wireless Networks: R. Henning

Session 4: Intrusion Protection and Applications
Chair: A. Khalili
- Challenges in Intrusion Detection for Wireless Ad hoc Networks: P. Brutch and C. Ko
- On Ubiquitous Network Security and Anomaly Detection: C. Van Dyke and C. Koç
- Secure Link State Routing for Mobile Ad hoc Networks: P. Papadimitratos and Z. J. Haas
- Secure Aggregation for Wireless Networks: L. Hu and D. Evans

Workshop 8: Workshop on Metadata Applications for the Next Generation Internet
Organizers: Hideki Sunahara, Nara Institute of Science and Technology, Japan; Shigeo Sugimoto, University of Tsukuba, Japan; Jay Kishigami, NTT Service Integration Laboratories, Japan
Session 1: Metadata and Related Technologies
Chair: R. Atarashi
- Metadata and new challenge: R. Atarashi, J. Kishigami and S. Sugimoto
- Next Generation Internet Technology and requirements for application: M. Wasserman
- RDF deployment for Next Generation Internet: G. Klyne

Session 2: Metadata Applications
Chair: K. Kodori
- An Overview of Metadata for E-Learning. Focusing on the Gateway to Educational Materials and Activities of the Dublin Core Education Working Group: N. Morgan
- TV Anytime: T. Kurioka
- Metadata for Broadcasting: F. Bien
- A Video Metadata Application and Its Verification Test Using MPEG-7 Description and Watermarked Content ID: Y. Ishibashi, S. Watabe, M. Ito, T. Kogure, H. Hiki, Y. Tanno, M. Kawabata, H. Mishima, C.-C. Hsu, and F. Hasegawa