

Topics in SAINT Symposium and Workshops

- Review Past and Think Future -

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SAINT in the Past 5 Years

	Number of Participants	Number of Countries	Number of Submitted Papers	Number of Accepted/ Presented Papers
SAINT2001 (San Diego)	167	?	135	25
SAINT2002 (Nara)	211	16	70	26 (+12 short papers)
SAINT2003 (Orlando)	218	24	149	43 (+13 short papers)
SAINT2004 (Tokyo)	323	16	105	29 (+13 short papers)
SAINT2005 (Trento)	252	32	179	56 (all regular papers)

Symposium Titles in SAINT

	SAINT2002 (Nara)	SAINT2003 (Orlando)	SAINT2004 (Tokyo)	SAINT2005 (Trento)
Networking (QoS, Performance, Protocol)	- Network architecture - Protocol, performance	- Protocol - Performance x 3	- Protocol x 2	- Protocol, architecture - Performance
Security	- Internet security	- Internet security	- Internet security	- Security architecture - Fighting with SPAM
Ubiquitous, P2P, Mobile		- Mobile, agents - P2P	- Mobile communication	- P2P networks
Service oriented, Metadata		- Information Retrieval		- Content delivery mngt
Collaboration, Groupware	- Internet communities	- Collaboration x 2	- Collaborative systems	- Collaborative systems
Web-services, E-business	- Web engineering x 2	- Web caching		- Web services x 2
Others	- Agent technology - Knowledge mngt	- Internet computing models		- Distributed systems - Storage management

No data for SAINT2001 (San Diego)

Workshop Themes in SAINT

	SAINT2002 (Nara)	SAINT2003 (Orlando)	SAINT2004 (Tokyo)	SAINT2005 (Trento)
Networking (QoS, Performance, Protocol)	- Measurement	- IPv6 and application - Satellite internet	- IPv6 and application	- IPv6 and application - QoS
Security		- Security in ad-hoc		- Network security
Ubiquitous, P2P			- Ubiquitous - P2P internetworking	- Ubiquitous - Mobile, Context-aware
Service oriented, Metadata		- Service-oriented - Metadata application	- Service-oriented - Metadata application	
Collaboration, Groupware	- Collaboration			- Team-ware
Web-services, E-business	- Web service	- E-business	- E-business	- E-business
Others	- Linux and applications	- Emergency support - AI application	- Social welfare support - Cyberspace Tech - Grid computing	- Cyberspace Tech - Computer intelligence

Workshops are effective for specific market and business area, while Symposium sessions are organized mainly for technologies.

SAINT2005 Workshops

- Summary -

SAINT2005 Introduced the explicit guideline for Workshop proposals and GO/CANCEL each Workshops.

- Number of proposed Workshops : 11

- Number of accepted Workshops : 10

One Workshop had not received sufficient number of papers.

- Number of submitted papers for 10 Workshops : 150

- Number of accepted papers for 10 Workshops : 113

Workshops papers are limited to 4 pages, and 4 papers are presented per a session (the same as that for short paper).

10 Workshops in SAINT2005

- W1 - IPv6 Deployment Status and Challenges
- W2 - Network Security Threats and Countermeasures
- W3 - Next Generation IP-based Service Platforms for Future Mobile Systems
- W4 - Context-aware Adaptation and Personalization for the Mobile Internet
- W5 - Ubiquitous networking and enablers to context aware services
- W6 - Teamware: supporting scalable virtual teams in multi-organizational settings
- W7 - Modelling and Performance Evaluation for Quality of Service in Next Generation Internet
- W8 - Computer Intelligence for Exabyte Scale Data Explosion
- W9 - E-business, E-negotiations and Auctions
- W10 - Cyberspace Technologies and Societies

W1 - IPv6 Deployment Status and Challenges

Organizers: Jordi Palet, Consulintel + Review Team (6)

Number of Participants: (average) 35

Hot Topics in this SAINT2005?

- Security
- Deployment Experiences
- Transition
- Applications and Services

Forthcoming Topics/Issues in this Area?

- Security will be a high-relevant topic for years (new paradigms because end-to-end model), and relation with mobility.
- Transition in real deployment scenarios will be also key, specially considering the issue of “reverse-transition” (soon will have more IPv6 core and access networks, and a few IPv4 or dual stack end-sites, so tunneling of IPv4 in IPv6 will be required).
- Clearly the more interesting topic will be new applications and services, which are now still not mature enough to take advantage of IPv6.

W2 - Network Security Threats and Countermeasures

Organizer: Eric Chen (NTT, Japan)

Number of Participants: 35

Hot Topics in this SAINT2005?

- Intrusion detection system and attacker behavior analysis
- DDoS attacks and IP traceback
- Spam mail filtering, ability authentication etc

Forthcoming Topics/Issues in this Area?

- Anomaly-based **detection of unknown attacks**
- **Self-learning algorithms** for tuning detection parameters
- Effective defense strategies against DDoS attacks

W3 - Next Generation IP-based Service Platforms for Future Mobile Systems 1/2

Organizers:

- Stefan Arbanowski, Fraunhofer FOKUS, Germany,
- Wolfgang Kellerer, DoCoMo Euro-Labs, Germany,
- Masayoshi Ohashi, KDDI R&D Laboratories, Japan,
- Mitsuru Uesugi, Panasonic Mobile Comm., Japan

Organizers are representatives of

- Mobile IT Forum, **mITF**, Japan
- Wireless World Research Forum, **WWRF**

Number of Participants: 33



W3 - Next Generation IP-based Service Platforms for Future Mobile Systems 2/2

Hot Topics in this SAINT2005?

- Advanced support of the mobile user: personalization, context awareness, simple & seamless application access
- Mobile service platform: Service description and architectural design principles
- (Context) **ontology handling**

Forthcoming Topics/Issues in this Area?

- **Service Platform** for ubiquitous communication and P2P
- **Privacy and trust**
- Mobile service platform prototypes and evaluation

W4 - Context-aware Adaptation and Personalization for the Mobile Internet

Organizers: C. Bettini (U. of Milan, Italy) C. Becker (U. of Stuttgart, Germany)

Number of Participants: about 25

Hot Topics in this SAINT2005 workshop:

- Middleware architectures for mobile services adaptation
- **Learning and modeling user behavior** in the mobile context
- Software engineering techniques for adaptive applications
- New models for access control and **trustedness**

Forthcoming Topics/Issues in this Area?

- **Efficiency issues in ontological reasoning** for context-awareness
- **Privacy issues** in context-aware adaptation
- Scalability issues in adaptation architectures
- User centered negotiation schemas

W5 - Ubiquitous networking and enablers to context aware services

Organizers: H. Morikawa, K. Imai, K. Yamazaki, M. Takemoto

Number of Participants: 35-40!!!

Hot Topics in this SAINT2005?

- Common facilities or middleware for context-aware services.

Forthcoming Topics/Issues in this Area?

- **Security topics** (authentication, privacy, etc.) for context-aware services in ubiquitous computing environments.



W6 - Teamware: supporting scalable virtual teams in multi-organizational settings

Organizers: Dustdar/Georgakopoulos/Godart

Number of Participants: 22

Hot Topics in this SAINT2005

- Awareness in Collaboration settings
- Process modeling and enactment
- Context for awareness and processes

Forthcoming Topics/Issues in this Area?

- More contextualization of everything
- Social networks and analysis

W7 - Modelling and Performance Evaluation for Quality of Service in Next Generation Internet

Organizers: Nihal Pekergin (University of Versailles),
Tadeusz Czachorski, (Polish Academy of Sciences)

Number of Participants: 14 papers (25 attendees)

Hot Topics in this SAINT2005?

- performance analysis of new QoS mechanisms for next generation Internet
- new approaches in rare event simulations,
- the use of stochastic bounds in QoS modelling
- performance studies of routing protocols in all-optical networks
- analysis of traffic self-similarity effects on QoS mechanisms

Forthcoming Topics/Issues in this Area?

- the need of new modelling and analysis techniques
- development of software and special architectures for performance studies
- performance studies for all-optical core networks
- studies on network evolution subject to non-cooperative behaviours

W8 - Computer Intelligence for Exabyte Scale Data Explosion

Background:

The rapid deployment of the internet has been realized the **large scale data transfer and accumulation** among the world.

Computer systems are expected to be **intelligent and strong enough to cope with the exabyte scale data** as the infrastructure of the society with large scale data.

Topics:

Computer intelligence for exabyte scale data explosion.

Organizers:

Carl K. Chang, Iowa State University, USA

Shinji Shimojo, Osaka University, Japan

Takahira Yamaguchi, Keio University, Japan

Kenichi Yoshida, University of Tsukuba, Tokyo

W8 - Computer Intelligence for Exabyte Scale Data Explosion

- ~30 Attendant
- 10 presentations out of 15 submissions
 - 2 papers on **system architecture to handle huge data**
 - 4 papers on **algorithm to analyze**
 - 4 papers on applications
 - We found at least **two papers bridging computer intelligence and grid community**

W9 - E-business, E-negotiations and Auctions

Organizers: Prof. JM Sahut, Ass. Prof. H. Okada, Ass. Prof. W. Picard

Number of Participants: 26

Hot Topics in this SAINT2005?

- Application of Web Services Security
- Patents and Open Source software
- Auction Mechanisms
- Quality of electronic services
- **3D visualization of auctions**

Forthcoming Topics/Issues in this Area?

- Security and e-business development, E-business **regulations and user protection**
- **Quality of services included several merchants or intermediaries**
- Experimental research of e-negotiation and auction markets

W10 - Cyberspace Technologies and Societies

Organizers:

Masaki Minami, Naofumi Yoshida, Masayuki Iwai, Hiroyuki Yoshida, Nobuo Saito, Hideyuki Tokuda, Yasushi Kiyoki, Jun Murai

Number of Participants: 30 – 40

Hot Topics in this SAINT2005?

- Next-Generation Cyberspace Application, Knowledge, Infrastructure and Governance
- Privacy and Security awareness Application
- Image / Video Stream Analysis and Operation using Metadata

Forthcoming Topics/Issues in this Area?

- **Privacy and Security**
- **Intellectual Property** on Digital Infrastructure
- Large-scale IP Multicast on Broadcast Media
- Lamda Internet
- **Latency sensitive** Routing Technologies

Conclusions

- Theme of SAINT -

Until 2005 : The Evolving Internet

2006 : Pervasiveness and Diversity of the Internet

The evolved Internet has identified the need to support a diverse range of communications and to accommodate a wide variety of information, services, people, communities, and cultures.

The Internet is also becoming to be ubiquitous and pervasive; accessible and usable from any device and through any network, including wireless and mobile.

SAINT focuses on emerging and future Internet applications and their enabling technologies.

See you in Phoenix for SAINT2006

January 23-27, 2006

**You can enjoy
a western atmosphere of USA**

<http://www.saintconference.org>