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Report on International Activities of IEICE Communications Society

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1.Introduction

This article reports two topics related to the international activities in the IEICE Communications Society (IEICE-CS). First topic is international conferences which were recently held or supported by the IEICE-CS. Second topic is recent status on sister society agreements which have been made as cooperation agreements between the IEICE-CS and foreign societies.

2.International Conferences

We think that many readers of this article have been to participate in international conferences. The IEICE-CS held or supported 45 international conferences from 2007 to 2009 in various technical fields [1]. In this section, the international conferences to which the IEICE-CS was related are introduced from various aspects.

First, the types of sponsorship in which the IEICE-CS participates in international conferences can be classified into the following four categories

- (a) Promoter ("Sponsor", etc.): The IEICE-CS assumes full responsibility for holding the conference, and is the sole promoter when the sponsoring parent body is the IEICE-CS alone. Responsibility for the practicalities of the event lies with the coordinating organization.
- (b) Joint promoter ("Cosponsor", etc.): The IEICE-CS assumes a level of responsibility proportional to the extent of its joint support for the conference, and is a joint promoter when there are joint sponsoring parent bodies. Responsibility for the practicalities of the event lies with the coordinating organization.
- (c) Participating promoter ("Technically cosponsor", etc.): The IEICE-CS does not assume responsibility for all the practicalities of the event, but takes on part of the burden of work relating to papers and dispatches from committee members to the coordinating organization or the like.
- (d) Supporting or backing roles ("Cooperation", etc.): The IEICE-CS does not assume responsibility for all the practicalities of the event, but cooperates on matters such as informing its members of the event proposals.

Table 1 is the number of each category about the 45 international conferences from 2007 to 2009. Especially, the international conferences for which the IEICE-CS was promoter or joint promoter are shown in

Table 2 and Table 3. From Table 2 and Table 3, you can find that many international conferences related to communications systems which were held in Japan were sponsored or cosponsored by the IEICE-CS.

Table 1 Number of international conferences classified to categories, 2007-2009

Categories	Number of conferences
Promoter	7
Joint promoter	7
Participating promoter	8
Supporting or backing roles	23

Table 2 International conferences for which the IEICE-CS was promoter (Sponsor), 2007-2009

Date	Conference Name	Location	
Aug. 2007	ISAP2007	Niigata, Japan	
Apr. 2008	APSITT2008	Bandos Island,	
		Maldives	
Aug. 2008	PS2008	Sapporo, Japan	
Oct. 2008	COINS2008	Tokyo, Japan	
Oct. 2008	APCC2008	Tokyo, Japan	
Jul. 2009	EMC'09/Kyoto	Kyoto, Japan	
Sep. 2009	SIIT2009	Tokyo, Japan	

Table 3 International conferences for which the IEICE-CS was joint promoter (Cosponsor), 2007-2009

Date	Conference Name	Location	
Jul. 2007	OECC/IOOC2007	Yokohama, Japan	
Oct. 2007	APNOMS2007	Sapporo, Japan	
Nov. 2007	UCS2007	Tokyo, Japan	
May. 2008	PPEMC'08	Tokyo, Japan	
Oct. 2008	APNOMS2008	Beijing, China	
Jul. 2009	ISADS2009	Athens, Greece	
Sep. 2009	APNOMS2009	Phoenix Island,	
		Korea	

Next, we investigated the 45 international conferences from 2007 to 2009 based on the location and date. Table 4 is the number of each region and Fig.1 is the number of each month. From Table 4, you can read that about 2/3 of international conferences was

held in overseas of Japan and the IEICE-CS is related to worldwide especially in Asia, Europe and North America. Fig.1 shows that the international conferences to which the IEICE-CS related tend to be held in autumn, especially October. When you look for international conferences you participate or research, this tendency might possibly be useful.

Table 4 Number of international conferences classified to regions, 2007-2009

Regions	Number of conferences	
Asia	28	
	(include 16 in Japan)	
Europe	12	
North America	5	
South America	0	
Africa	0	
Oceania	0	

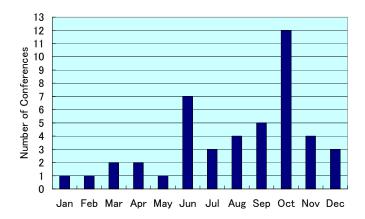
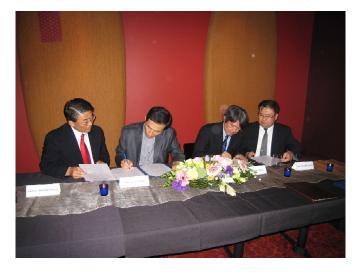


Fig. 1 Number of international conferences classified to months, 2007-2009



3. Sister Societies

To further friendly relations with foreign societies and improve international membership services, the IEICE-CS made the first "sister society" agreement with the IEEE Communications Society (ComSoc) in 1995. Afterwards, the number of sister society increased, and IEICE-CS is now concluding sister society agreements with five foreign societies [2]. Those societies are as follows:

- IEEE Communications Society (ComSoc)
- Korean Information and Communications Society (KICS)
- Korean Institute of Electromagnetic Engineering & Science (KIEES)
- Informationstechnische Gesellschaf within The Verband der Elektrotechnik Elektronik Informationstechnik (VDE/ITG)
 - China Institute of Communications (CIC)

Each sister society agreement includes stipulations related to privileges on registration/paper submissions to their held or supported international meetings/conferences, promotion of their publications, and cooperation with each other for mutual prosperity.

In January of this year, four sister society agreements, i.e. agreements with IEEE ComSoc, KICS, KIEES, and VDE/ITG were renewed, and regarding two societies among them, the signing ceremonies of the renewal agreement were held during GLOBECOM 2009 conference in Honolulu, Hawaii.

KICS/IEICE-CS agreement signing ceremony was held on 1St December, 2009, and those photos are shown in Fig. 2. The renewal agreement was signed by KICS president, Prof. Hyung Jin Choi and IEICE-CS vice president, Prof. Miki Yamamoto, with IEICE president, Prof. Tomonori Aoyama in attendance. This agreement is valid for three years, 2010 - 2012.



Fig. 2 Signing ceremony of KICS/IEICE-CS sister society agreement (From the left, KICS Director, Prof. James Won-Ki Hong and KICS President, Prof. Hyung Jin Choi, /IEICE-CS Vice President, Prof. Miki Yamamoto and IEICE-CS Director, Dr. Yukihiko Okumura)



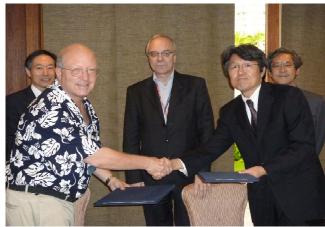


Fig. 3 Signing ceremony of IEEE ComSoc/IEICE-CS sister society agreement
(From the left of the right photo, ComSoc President-Elect, Dr. Byeong Gi Lee, ComSoc President, Dr. Douglas
Zuckerman, and ComSoc Sister Societies Chair, Dr. Roberto Saracco,
/IEICE-CS Vice President, Prof. Miki Yamamoto and IEICE President, Prof. Tomonori Aoyama)

IEEE ComSoc/IEICE-CS agreement signing ceremony was held on 3rd December, 2009, and those photos are shown in Fig. 3. The renewal agreement was signed by ComSoc president, Dr. Douglas Zuckerman and IEICE-CS vice president, Prof. Miki Yamamoto, with IEICE president, Prof. Tomonori Aoyama in attendance. This agreement is valid for four years, 2010 - 2013. Both of above signing ceremonies were held in a very friendly atmosphere.

As a part of international activities, IEICE-CS will continue to construct a close and mutually beneficial relationship between all sister societies in the future. The IEICE-CS hopes that many overseas members of "Sister Societies" would join in the IEICE-CS as a member and also participate in the IEICE-CS-organized international conferences/meetings.

4.Conclusion

This article reported recent topics related to the international activities of the IEICE Communications Society. By supporting international conferences and providing sister society privileges, the IEICE-CS supports all member's international activities in the field of communications technology.

5.Reference

- [1] IEICE-CS international conferences information web page:
 - http://www.ieice.org/cs/conf/calendar.html
- [2] IEICE-CS Sister Society information web page: http://www.ieice.org/cs/member/sister_society.htm

Report on the 23rd Optical Communication Systems Symposium

Prospects of novel global networking caused by paradigm shift in optical communications –

Technical Committee on Optical Communication Systems

1.Overview

The 23rd Optical Communication Systems (OCS) Symposium—sponsored by the IEICE **Technical** cooperation on OCS. in with Optoelectronic Industry and Technology Development Association (OITDA), IEEE Photonics Society Japan Chapter, Photonic Internet Forum, and the IEICE Technical Committee on Photonic Networks—was held on Dec. 10-11, 2009 at the Toray Human Resources Development Center in Mishima city. The symposium theme was "Prospects of a novel global networking caused by paradigm shift in optical communications". Table 1 portrays the symposium agenda. In all, 173 participants attended. This symposium also hosted poster presentations national projects related to optical communications and a product exhibition prepared by 13 companies in the lobby adjacent to the conference room.



Fig. 1 Keynote speaker, Mr. N. Murakami.

Table 1. Symposium Agenda

Date	Program
12/10	1. Opening Remarks
	2. Keynote Speech
	3. Presentation of Awards
	4. Workshop I
	5. Reception
	6. Rump Session
12/11	7. Invited Lectures
	8. IEEE Photonics Society Award Lecture
	9. Workshop II
	10. Closing Remarks

2.First day - Dec. 10

At the opening session of the symposium, Mr. Masatoshi Suzuki, the committee chair of IEICE OCS, gave the opening address. He reported activities of the OCS Technical Committee in 2009. He also explained the OCS homepage renewal and introduction of a vice-chair post in OCS from this year.

Technical sessions started with the keynote speech "Evolution of internet opened by information networks in smart grid" given by Mr. Norio Murakami of Google Inc. (Fig. 1). His talk included descriptions of (1) the mission of Google Inc., (2) Clear explanation for commitment of Google Inc. to "A Green New Deal", and (3) the concept of a "Smart Grid".

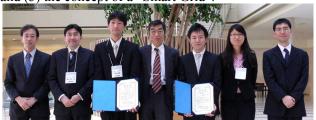


Fig. 2 OCS award-winners: from the left, Mr. H. Ichibangase Mr. S. Kametani, Mr. Y. Konishi, Mr. M. Suzuki (Presenter, center), Mr. R. Kudo, Ms. T. Inoue, Mr. K. Onohara.

The OCS award ceremony was held after the keynote speech (Fig. 2). The OCS Technical Committee presented two awards: the "IEICE Communication Society OCS Best Paper Award" and the "IEICE Communication Society OCS Young Researchers Award" for excellent presentations at OCS technical committee meetings throughout the year.

One paper was selected for the Best Paper Award.

"A study on advanced FEC for LDPC codes with soft-decision decoding" authored by Mr. Takashi Mizuochi, Mr. Yoshikuni Miyata, Mr. Toshiyuki Ichikawa, Mr. Yoshiaki Konishi, Mr. Tatsuya Kobayashi, Ms. Tomoka Inoue, Mr. Kiyoshi Onohara, Mr. Soichiro Kametani, Mr. Kazuo Kubo, Mr. Hideo Yoshida, Mr. Katsuhiro Shimizu, and Mr. Hiroshi Ichibangase (Mitsubishi Electric Corp.)

One researcher received the Young Researchers Award.

 Mr. Riichi Kudo (NTT Corp.): "Polarization mode dispersion compensation using frequency-domain equalization in optical coherent single carrier transmission"

The OCS chair presented a testimonial, a glass-trophy, and a book token to each award recipient.

After the award ceremony, Workshop I – "Challenges toward next generation broadband-services", was chaired by Mr. Munefumi Tsurusawa of KDDI R&D Labs. The workshop was aimed at discussion of optical communication technology at the next stage from a perspective of services and applications. The workshop included four invited talks

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(Fig. 3). The invited talks described (1) technology of the routers supporting 100G Ethernet, (2) Cloud Computing and virtualization techniques, (3) high-speed network implementation by the local government of the Asahi area of Niigata, and (4) presentation of the project combined with NGN technology and recent display technology.



Fig. 3 Presenters of Workshop I: from the left, Mr. T. Imai, Mr. T. Kudo, Mr. S. Shida, and Mr. R. Hatakeyama.

The rump session was opened after the reception. The title was "Dear Children, who shoulder the future destiny of optical communications". Mr. Yoshiaki Sato of NTT Corp. and Prof. Naoaki Yamanaka of Keio Univ. were invited as panelists. A handmade optical transceiver system was demonstrated by Prof. Yamanaka. Various opinions from attendees were presented as at the year-end party. The able chairing of Prof. Masanori Hanawa of Yamanashi Univ. produced a friendly atmosphere for this session, filled with fruitful discussion.

3.Second day – Dec. 11

The second day began with a technical session including presentations of four invited lecturers to cultivate participants' knowledge of the future of optical communications (Fig. 4). The first lecture was "Review of realization of digital signal processing technology for communications and future prospects" given by Mr. Hirohisa Gambe of Fujitsu Lab. He described the history over 30 years of the progress of digital signal processors, introducing past issues and their solutions. The second lecture was a "Facility management system using ICT technology for saving energy" given by Prof. Hiroshi Esaki of Univ. of Tokyo. He described contributions to the "Earth" using ICT technology including sensor networks and control networks, introducing the Green Campus Project in Faculty of Engineering of Univ. of Tokyo. The third lecture was on "International standardization in ITU-T" given by Mr. Yoichi Maeda of NTT-AT. He emphasized (1) the necessity of strategy for international standardization to reinforce our industrial competitiveness, (2) the necessity of raising the skill level of Japanese members for standardization and a long-range plans to cultivate human resources for that standardization, (3) the importance of understanding academic and business trends through activities for advance international standardization, based on his original experiences as a chairman of Studying Group 15 in ITU-T. The last lecture was sponsored by the IEEE Photonics Society Japan Chapter as an award lecture of the 2009 Distinguished Award. The lecture was given by Prof. Tetsuya Mizumoto of Tokyo Institute of Technology, entitled "Optical isolators – The progress toward integration". His lecture was a comprehensive review of optical isolators, including its principles and his recent work on waveguide isolators.

The final session was Workshop II, entitled "Recent progress on optical communications using digital coherent technology", in cooperation with OITDA, chaired by Prof. Kazuro Kikuchi of Univ. of Tokyo. This session specifically explained digital coherent optical fiber transmission. Five invited speakers presented (1) prospects for the next generation optical networks, (2) digital coherent receivers, (3) 10,000 km – 100 Gbps/ch optical fiber transmission using digital coherent technology, (4) recent progress in standardization of OIF on 100 Gbps – long-haul transmission, and (5) optical transceivers for 100Gbps Ethernet (Fig. 5).



Fig. 4 Presenters at the invited-lectures session: from the left, Mr. H. Gambe, Prof. H. Esaki, Mr. Y. Maeda, and Prof. T. Mizumoto.



Fig. 5 Workshop II Presenters (from the left): Top, Mr. S.L. Jansen, Mr. T. Hoshida, and Mr. E. Yamazaki; Bottom, Ms. S. Shioiri, and Mr. K. Hiramoto.

4.Conclusion

We believe that all participants were satisfied with the invitees' presentations and discussions related to the recent evolution of optical communication technologies at this symposium. Most participants might feel that the paradigm shift in optical communications can bring a greener ICT world with global networking.

It was our great pleasure that The Nobel Prize in Physics 2009 was awarded to Prof. Charles K. Kao for groundbreaking achievements concerning the transmission of light in fibers for optical communication. The news has to encourage all of us.

Finally, the technical committee on OCS would like to thank all speakers and participants for their outstanding efforts.

Report on the 7th QoS Workshop

Go HASEGAWA (Osaka University) Tomohiko OGISHI (KDDI R&D Laboratories) Secretary of the 7th QoS Workshop

1. Workshop and venue

The 7th QoS Workshop was held on November 20, 2009 at NICT headquarters, Koganei, Tokyo, Japan (Fig. 1). The workshop was organized by IEICE Technical Committee on Communication Quality (CQ), which covers a broad range of research topics on communication quality. This workshop focused on the hot topics on technology to investigate communication quality including measurement and visualization.

2. Technical and poster sessions

69 people participated in this workshop. The workshop consisted of a technical session, a poster session (22 posters) and a demonstration session (4 demos). In the technical session, we had 3 invited "Network presenting performance measurement in R&E networks" by Mr. Takatoshi Ikeda (NICT/KDDI), "Active measurement and its place in network evolution" by Prof. Marat Zhanikeev (Waseda Univ.) and "Operation and management of campus network" by Prof. Katsuyoshi Iida (Tokyo Inst. Tech.). Mr. Ikeda discussed examples of network operations in R&E networks and the deployment of measurement middleware at perfSONAR project. Prof. Zhanikeev discussed various active measurement techniques and problems on measuring parameters of NGN standards and inferring network topologies. Prof. Iida discussed actual situations of the operation and management of campus networks including security incidents and guidelines.

In the poster session, one-minute presentation was done by each poster presenter at the beginning of the session (Fig. 2, top). In the poster room, all the attendees had active discussions in a friendly atmosphere (Fig. 2, bottom). The poster session covers a broad range of communication quality, overlay networks, and network QoS control and measurement. One best poster and three excellent posters were selected based on the votes from the attendees (Fig. 3). The best poster award was given to Mr. Kei Takeshita with his poster "An evaluation of the TCP video classification method using the group information".

3. Conclusion

QoS and QoE related issues have been attracting more attentions in the research areas of new generation networks and future communications. The issues are growing into interdisciplinary areas of network and





human activities. The next QoS workshop will be held in autumn, 2010.



Fig.1 Workshop room



Fig.2 Poster session (Short presentation at workshop room and poster room, from top)



Fig.3 Award winners (Best poster winner and excellent poster winners, from left)

Report on FutureNet II Workshop and US/Japan Future Network Research Collaboration Workshop

Yoshiaki Kiriha

NICT, Strategic Headquarters for New Generation Network R&D

1.Introduction

 2^{nd} International workshop on the network of the future (FutureNet II) and 2^{nd} US/Japan Future Network research collaboration workshop were held in Honolulu Hawaii, on December 4^{th} and $5\text{-}6^{th}$, respectively.

Those workshops were technically supported and cooperated by the technical committee on New Generation Network (NWGN), IEICE Communications Society. Many committee members have served as TPC in FutureNet II and/or have participated and discussed in the US/Japan Future Network workshop.

2.FutureNet II Workshop

This international workshop, in conjunction with IEEE GLOBECOM2009 and in Cooperation with IEICE Communications Society, aims to discuss new ideas and state-of-the-art research results on both evolutionary and clean-slate approaches for redesign of the internet and new generation networks. Prof. Murata (Osaka University) and Dr. Kawamura (NTT/NICT) have served as a general co-chair and a TPC co-chair on behalf of Japanese community.

In the workshop, 2 keynotes and 12 papers were accepted and presented. Prof. Joe Touch (ISI) gave a very interesting talk on the past, present, and future of virtual networks, and Dr. Shinji Shimojo (NICT) reported application perspectives on Future Network research in Japan as well as up-to-date research activities. The below lists presented papers from Japan.

- Fumio Teraoka (Keio University), "Redesigning Layered Network Architecture for Next Generation Networks"
- Akeo Masuda (NTT), "Prototype Design for Scalable Support of Inter-domain Routes in a Single AS"
- Yudai Honma (Tokyo Metropolitan University), "A New Multi-path Routing Methodology Based on Logit Type Assignment"
- Sho Shimizu (Keio University), "Newly Structured Router Network Architecture using Cloud Control Plane and Forwarding Plane"
- Akihiro Nakao (University of Tokyo), "Modeling of Modern Router Architectures Supporting Network Virtualization"
- Suyong Eun (Osaka University), "Self-Organizing scale free topology for Peer-to-Peer Networks"

55 Participants, a largest number of registrations among GLOBECOM 2009 workshops, shared and discussed on fresh ideas which were extremely interesting,informative,and included new and forward-looking

ideas. http://www.futureinter.net//index.html is a workshop homepage, presentation materials will be available through this URL. This workshop is planned to be held in conjunction with GLOBECOM2010 at Miami Florida.

3.US/Japan Future Network Workshop

This workshop has planned by NSF and NICT, and aims to discuss research issues and collaboration possibilities on the future internet and new generation networks by totally around 60 invited-only US and Japanese leading researchers. The program was arranged by Dr. Harai (NICT) and Prof. Deep Medhi (UMKC) under the direction of Prof. Aoyama (Keio University) and Prof. Peter Freeman (Georgia Tech).

The workshop was mainly organized by four breakout sessions focused on major research challenges in future global networking: Future Networks and Architecture, Network Science, Substrates (Optical and Wireless), and Reliability & Security.

The followings are the part of collaboration research topics which should be discussed in more detail.

- Multilayer Virtual Node Architecture, Non-IP Routing over Network Virtualization, ...
- Global Properties of Large Network with Local Control, Economic Aspects of Virtualization, ...
- Bio-Inspired Network Designs, Kansei(US) and PIAX(Japan) Federation, ...
- Security Test-bed Federation, Cross-boundary Attribution, Attribution of Encrypted Traffic, ...

The common research challenges, impediments, overcoming impediments, and possible collaborations, which are discussed in this workshop, will be officially reported and opened through NSF NetSE homepage.

4.Summary

Both workshops were very successful and fruitful for encouraging new generation network related research activities in Japan. The technical committee on New Generation Network (NWGN) would like to continuously support this kind of international activities.



Fig. 1 2nd US/Japan Future Network Workshop Participants

Report on the 5th WSANE 2009 in Shanghai

Toneo Kawanishi Chair of IEICE SANE, JAROS

1. Introduction

Workshop Space, Aeronautical The for Navigational Electronics 2009 (WSANE2009) was held in Shanghai, China, from November 1st to 4th, 2009. It was the 5th memorial international workshop organized by the Technical Committee on Space, Aeronautical and (SANE) of the **Navigational** Electronics WSANE2009 Communications Society. The co-sponsored by Fudan University (host), the IEEE AESS JC, some Japanese institutes (JAXA, NICT, ENRI), etc. Also the IEEE GRSS Japan Chapter and Beijing Chapter, and the AIAA JFSC cooperated with the WSANE2009. The number of participants is about 70 from 5 countries (Japan, China, Korea, Australia and USA). Fig. 1 shows a group photo.



Fig.1 Group photo.

2. Sessions

The workshop started from a welcome remark by Prof. Ya-Qiu Jin in Fudan University who was a co-chairperson of this workshop (Fig. 2). The activities by the IEICE-SANE were also informed with a presentation by the SANE committee at this opening session. System-oriented broad scope is a feature of the WSANE: It covers satellite and space-station systems, remote sensing and observation technologies, radar, navigation, and communication systems. From such various fields, 55 presentations were given, including the following invited talks:

- Brief Introduction of Selenodetic Progress in Chang'E-1 Mission, Ping Jinsong and Huang Qiang (Shanghai Astronomical Observatory, CAS)
- Advancement of Polarimetric SAR and INSAR (Wolfgang-Martin Boerner, Univ. of Illinois at Chicago).
- NICT's Research and Development Plan in Space Communications Technology (Naoto Kadowaki, NICT)
- Experiment of Onboard Laser Time Transfer (Yang Fumin, Shanghai Astronomical Observatory, CAS)
- Wave Height Estimation by Velocity Bunching Simulation Using SAR Data (Chansu Yang, KORDI)
- Simulation of wave propagation through an atmosphere with a randomly varying refractive index (Brett D Nener, Univ. of Western Australia)

In every session, international researchers with different backgrounds were able to share knowledge and



Fig.2 Welcome remark by Prof. Ya-Qiu Jin.



Fig.3 Technical session.

understanding each other after fruitful discussion (Fig. 3).

3. Venue, banquet, and tour

The venue was Guang-Hua East Building in Fudan University, which is located just to the north of downtown Shanghai. The welcome banquet was held on the second day at Fudan University. In the last day, a tour for a beautiful campus of Fudan University was organized. Also in the farewell party on the afternoon of the last day, at Bacheng where is the famous for crab, all participants fully enjoyed Shanghai crabs at their best season. The WSANE established some awards including for the best paper. The awarding ceremony was held at the farewell party (Fig. 4).



Fig.4 Farewell party.

4. Conclusions

We really appreciate devoted cooperation of the local organizing committee including several students of Fudan University. The next workshop ICSANE2010, which is renamed, will be held in Jeju (TBD), Korea. Since a tentative schedule is considered as October 27th to 29th, 2010, shall we enjoy in a beautiful island?

Report on ISAP2009 and Reformation of ISAP Steering System toward Globalization

Tasuku Teshirogi (Anritsu Corporation) former ISAP ISC Chair



1. ISAP2009

2009 International Symposium on Antennas and Propagation (ISAP2009) was held at Imperial Queen's Park Hotel in Bangkok, Thailand from October 20 to 23. This was the fourth ISAP outside Japan since the symposium started to be held in Asia-Pacific region every year. The organizer was Electrical Engineering/ Electronics, Computer, Telecommunications Technology (ECTI) Association Information Thailand. Three academic organizations including IEICE supported as technical co-sponsors. As General Chair, Prof. Prayoot Akkaraekthalin, KMITNB, and as TPC (Technical Program Committee) Chair, Prof. Chuwong Phongcharoenpanich, KMITL, served.

Half a year before the symposium, many people in ISAP community had a great concern whether the symposium could be held peacefully and safely due to political turmoil in Thailand and world pandemic of new influenza. Fortunately, however, these worries had been cleared, consequently the size of the symposium reached the level of usual ISAP symposia as shown in Table 1. Papers were submitted from 32 countries /regions not only in Asia-Pacific but USA, ten European countries and others. Table 2 shows the ranking of the number of submission exceeding ten. In Table 2, it should be noted that submission from Malaysia increased rapidly this year comparing with a few papers in the last year.

In the last ISAP in Taiwan, ISAP International Steering Committee (ISC) decided an establishment of International Review System (IRS) constituted of review coordinators and reviewers nominated from member countries/regions to share review work of the submitted papers in cooperation with TPC of the Local Organizing Committee (LOC). ISAP2009 was the first symposium to benefit from the IRS. Approximately 150 reviewers contributed energetically multiple-review work in a limited time and supported TPC. This was an epoch making event in ISAP history.

In the period of ISAP2009, the ISC regular meeting was held. Members are shown in Fig. 2. As one of co-chairs, the author chaired the meeting with Prof. Prayoot and made several important decisions.

First, we officially decided ISAP2012 to be held at Nagoya Congress Center, from October 29 to November 2 in 2012. The general Chair will be Prof. Koichi Ito, Chiba University. For following symposia, Singapore and NanJing submitted competitively their



Fig.1 Opening ceremony

Table 1 Major statistics

Papers	Registered
accepted	participants
305	375
	accepted

Table 2 Number of paper submission

Tueste 2 i (unité et et paper succimission				
Japan	109			
Thailand	50			
Korea	44			
Malaysia	19			
Taiwan	17			
India	15			



Fig.2 ISC members at ISAP2009

proposals for ISAP2013, Taiwan proposed to invite ISAP2014 to Kaohsiung, Taiwan, furthermore, Malaysia showed an intention to host ISAP2015.

The second topic was change of ISC Chair. Because three years have passed since the author started to serve as ISC Chair, he offered to step down. All members approved the offer, and elected Prof. Kunio Sawaya, Tohoku University, as a new chair.

The third topic was decision to present ISAP Testimonials to three American scientists, Prof. Raj Mittra, Prof. W. Boerner, and Dr. R. Stone for their outstanding contributions to ISAP for a long time since the first ISAP in 1971. We appreciate for their assistances and encouragements that played important roles in enhancement of quality and globalization of ISAP. At the banquet, the author, as ISC Chair, presented them "Certificate of Appreciation" and replica-figures of their own as shown in Fig.3.

2. ISAP ISC and its activities

After the first ISAP in Sendai, nine symposia were held only in Japan at intervals of several years. However, since beginning of 21st century, R&D into antennas and propagation technologies is making great progress and more people are joining AP community, especially in Asia-Pacific region. Reflecting these trends, discussions arose in Japan to hold ISAP more frequently and to open them to Asia-Pacific region. In 2001, ISAP JSC (Japan Standing Committee) was organized in Communications Society of IEICE. The members were elected from AP community by voting. JSC started to sound possibilities of holding ISAP outside Japan and negotiate with several foreign leaders in potential countries. Consequently we decide the venue to be Seoul, Korea for ISAP2005, and Singapore for ISAP2006.

In order to hold ISAP continuously and smoothly, we established ISAP ISC during ISAP2006 with 9 countries/regions. Now the number has reached 11, - Australia, China, India, Hong Kong, Japan, Korea, Macao, Malaysia, Singapore, Taiwan, and Thailand. The mission of the committee is planning future ISAP and establishing operation rules to steer the symposia smoothly using international cooperation.

The organization of the overall ISC is shown in Fig.4. The committee is conducted under a co-chair system, one is General Chair of each ISAP and the other is JSC Chair taking account of achievement and experiences accumulated by Japan. Because of the same reason JSC is also responsible for providing secretary services for supporting ISC activities.

TAB (Technical Advisory Board) was also organized in ISC to support each LOC in technical matters with international cooperation, thus it contributes to maintain and enhance quality of papers and to reduce the burdens of LOC. One of concrete activities of TAB is establishment of IRS within TAB and as mentioned previously IRS started the first operation in the latest ISAP.

ISC also planned to set up ISAP Archives recording all papers presented at the previous ISAP. We owe the realization of online service to JSC greatly. At this moment all papers from the first ISAP in 1971 to ISAP2007 have been digitized and online, as a result everybody in the world AP community can access ISAP papers free of charge. This service will respond to expectations of AP specialists in the world and enhance motivations for Asian people to submit papers. **URL** of the **ISAP** Archives is http://ap-s.ei.tuat.ac.jp/isapx/ and the top page is shown in Fig. 5.



Fig.3 The author presented ISAP Testimonial to Prof. Raj Mittra, The Pennsylvania State University

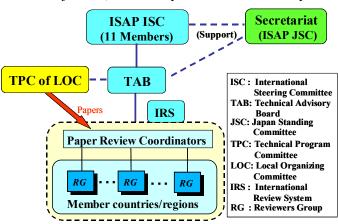


Fig.4 Organization of ISAP ISC



Fig.5 Top page of ISAP Archives

Welcome to the IEICE Overseas Membership Page URL: http://www.ieice.org/

Membership for Overseas Candidates: Overseas Members may opt to join one IEICE Society of their choice and may request to receive the IEICE Transactions of online version of that Society. Furthermore, Overseas Members may request to receive the IEICE Journal(written in Japanese) and Transactions (published in paper) at an additional cost. Similar services are available to Overseas Student Members. Voting privileges in the IEICE election do not apply to Overseas Members. Note that the Overseas Membership applies only to candidates who reside outside of Japan and who have citizenship in countries other than Japan.

OMDP (Overseas Membership Development Program): OMDP is provided for candidates from countries/areas in Asia(except Republic of Korea and Taiwan), Africa, Central America, and South America. This program is designed so that IEICE can contribute to and support the progress of science and technology throughout the world. Scientists and engineers in these countries/areas are encouraged to apply to the program.

IFICE Societies and Publications

• IEICE Societies		
Society	Transactions	Editorial Subject Indexes
A (Fundamentals of Electronics, Communications and Computer Sciences)	EA (English) A (Japanese)	Engineering Acoustics, Noise and Vibration, Speech and Hearing, Ultrasonics, Digital Signal Processing, Analog Signal Processing, Systems and Control, Nonlinear Problems, Circuit Theory, VLSI Design Technology and CAD, Numerical Analysis and Optimization, Algorithms and Data Structures, Graphs and Networks, Reliability, Maintainability and Safety Analysis, Cryptography and Information Security, Information Theory, Coding Theory, Communication Theory and Signals, Spread Spectrum Technologies and Applications, Mobile Information Network and Personal Communications, Intelligent Transport System, Image, Vision, Computer Graphics, Language, Thought, Knowledge and Intelligence, Human Communications, Neural Networks and Bioengineering, Multimedia Environment Technology, Communication Environment and Ethics, Concurrent Systems, Measurement Technology, General Fundamentals and Boundaries
B (Communications)	EB (English) B (Japanese)	Fundamental Theories for Communications, Devices/Circuits for Communications, Transmission Systems and Transmission Equipment for Communications, Optical Fiber for Communications, Fiber-Optic Transmission for Communications, Switching for Communications, Switching for Mobile Communications, Network, Network Management/Operation, Internet, Wireless Communication Technologies, Terrestrial Radio Communications, Satellite Communications, Optical Wireless Communications, Antennas and Propagation, Electromagnetic Compatibility (EMC), Sensing, Navigation, Guidance and Control Systems, Energy in Electronics Communications, Terminals for Communications, Multimedia Systems for Communications, Broadcast Systems, Integrated Systems for Communications, Space Utilization Systems for Communications
C (Electronics)	EC (English) C (Japanese)	Electromagnetic Theory, Lasers, Quantum Electronics, Optoelectronics, Microwaves, Millimeter-Waves, Ultrasonic Electronics, Electronic Circuits, Electronic Materials, Organic Molecular Electronics, Electronic Components, Electromechanical Devices and Components, Semiconductor Materials and Devices, Integrated Electronics, Electron Tubes, Vacuum and Beam Technology, Electronic Displays, Superconducting Electronics, Storage Technology, Electronic Instrumentation and Control
D (Information and Systems)	ED (English) D (Japanese)	Computation and Computational Models, Automata and Formal Language Theory, Algorithm Theory, Complexity Theory, Computer Components, VLSI Systems, Computer Systems, Fundamentals of Software and Theory of Programs, System Programs, Software Engineering, Database, Contents Technology and Web Information Systems, Data Mining, Networks, Dependable Computing, Application Information Security, Distributed Cooperation and Agents, Artificial Intelligence and Cognitive Science, Human-computer Interaction, Office Information Systems, e-Business Modeling, Educational Technology, Rehabilitation Engineering and Assistive Technology, Pattern Recognition, Speech and Hearing, Image Processing and Video Processing, Image Recognition, Computer Vision, Computer Graphics, Multimedia Pattern Processing, Natural Language Processing, Biocybernetics, Neurocomputing, Biological Engineering, Music Information Processing, Kansei Information Processing, Affective Information Processing
Journal of IEICE	(written in Ja	apanese only)

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	charge		societies (includes its online version transactions)	(written in Japanese)	(In one s	ociety)
		,		Japan Josep	One title	Two titles
Member (overseas)	1,400	7,000	3,500 / 1society	6,000	4,000	10,000
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Student member (overseas)	-	2,000	2,000 / 1society	6,000		
Student member (overseas) with OMDP*	-	1,000	1,500 / 1society	5,000		

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Example: If you want to subscribe to Transaction of EA, please check Society Registration as "A", and your membership fee amounts to 7,000 yen / 5,000 yen.

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3. If you want to subscribe to one Transaction of paper version,, please check "Additional Transaction subscription (published in paper)". Example: If you want to subscribe to Transaction of EC in paper version additionally, please check Society Registration as "A", and Additional Transaction subscription (in paper version) as "C" or as "EC". Your membership fee amounts to 7,000+4,000 yen / 5,000+4,500 yen.

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Areas	Air mail	SAL mail
Asia; Guam; Midway islands	5,600 yen	3,200 yen
Oceania; Near & Middle East; North & Central America; Europe	7,800 yen	4,400 yen
Africa: South America	11.000 ven	5.600 ven

Endorser's name

IEICE Overseas Membership Application Form

URL http://www.ieice.org/eng/member/OM-appli.html E-mail member@ieice.org FAX +81-3-3433-6659

Please type or print in English. The deadline for submitting application form is the 1st day of every month. Personal Information □Male □Female Full name: Nationality: Middle name First name Last name \square Prof. \square Dr. \square Mr. \square Ms. Place of birth: Date of birth: Day Month Mailing Address ☐Home ☐Office Name of Company/School/College Department/Section State/Province Street Country Postal code TEL E-mail Academic Background The highest academic degree: □Ph.D. □Masters □Bachelors □Others: _ University/college/school of the highest academic degree Month & year of graduation (For Student Member) Academic degree which will be conferred on you Month & year when the degree will be conferred on you Application Information Membership: I want to apply for the following membership (check one item!) ☐ Member (Overseas) ☐ Student Member (Overseas) ♦ If you want to apply for OMDP, please check; □OMDP (Overseas Membership Development Program) Society registration (Membership fee includes one Society of Transaction of Online version.): □A: Engineering Sciences □B: Communications □C: Electronics □D: Information and Systems □ A: Engineering Sciences □ B: Communications □ C: Electronics □ D: Information and Systems Additional Society (optional): Additional Transactions of paper version (optional): ☐EA: Fundamentals ☐EB: Communications ☐EC: Electronics □ED: Information and Systems □A: Fundamentals (Japanese) □B: Communications (Japanese) ☐C: Electronics (Japanese) ☐D: Information and Systems (Japanese) **Journal subscription (optional):** \Box (Japanese) Remittance Remittance is available only in Japanese yen by a credit card. Journal subscription (optional).....¥ Admission charge.....¥ Annual charge.....¥_ Mailing option: □Air mail.....¥ ___ Additional Society (optional) ¥ □SAL mail....¥ Total.....¥ Additional Transactions (optional).....¥ \square VISA \Box JCB Credit Card: □UC ☐ Master Card ☐ American Express Card number: Credit Card Holder: Endorsement Endorsements by one IEICE Member application is required. If it is difficult to find endorsers, please contact the IEICE Membership Activities Section by sending this sheet, and we will help you. I recommend this applicant for IEICE membership.

Membership number

Date

Endorser's signature

From Editor's Desk

● IEICE General Conference in Sendai

The IEICE General Conference is coming. The next conference is held at Tohoku University in Sendai from March 16(Tue.) to 19(Fri.).

Sendai is the capital city of Miyagi Prefecture, and it has a lot of greens everywhere. So, this town is called "Mori no Miyako", which means "Chief Town of Greenery". Sendai is famous for gourmet food, too. Especially, Sendai is a beef tongue dish birthplace, and there are a lot of popular beef tongue restaurants in the town. In most restaurants, we can eat the beef tongue with rice boiled with barley and the oxtail soup. They are very tasty. When I visit to Sendai, I always eat and enjoy them.

We hope many of you attend the conference and enjoy nature and food in Sendai!

IEICE Global News Letter Editorial Staff

Editorial Staffs of this issue

No special order is observed



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Call for Papers

----- Special Section on Wireless Distributed Networks -----

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Wireless Distributed Networks" in **December 2010.**

Recently, there are a lot of research works on Wireless Distributed Networks (WDN) such as wireless multi-hop/mesh networks, coordinated cellular networks, cognitive networks, and etc., where the distributed wireless nodes cooperate with each other. Application fields of these wireless networks are different; however, principle theories and element technology are common, especially spectrum sharing technology, cooperative communication technology, and radio resource management for network optimization. Further development of these technology are indispensible of future wireless networks. Because of such reasons, a special section is being planned (scheduled to appear in the December 2010 issue) to further promote research and development in these fields.

1. Scope

This special section aims at timely dissemination of research in areas of wireless distributed networks. Possible topics include:

- Principle theories and their application to WDN
- ◆Multi-port information theory ◆Array signal processing ◆Bayes theorem ◆Graph theory ◆Convex optimization ◆Game theory
- Element technology for WDN
- ◆Distributed synchronization ◆Multi-hop relay ◆Cooperative relay ◆Distributed Coding ◆Network coding
- ◆Fusion ◆Network MIMO ◆Cooperative sensing ◆Distributed resource management ◆Load balancing ◆Network handover
- Applications of WDN
- ◆Multi-hop/mesh networks ◆Coordinated cellular networks ◆Cognitive networks ◆Heterogeneous networks
- ◆Self-organized networks

2. Submission Instructions

The standard number of pages is 8 for a PAPER and 2 for a LETTER. The maximum number of pages for the initial submission of a LETTER is 4. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the "Information for Authors". The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_cs.html. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for regular issues (60 days) because of the tight review schedule.

This special section will accept only papers by electronic submission. Prospective authors are requested to follow carefully the submission process described below.

- 1. Submit a manuscript and electronic source files (TeX/Word files, figures, authors' photos and biography) for publishing using the IEICE Web site https://review.ieice.org/regist_e.aspx https://r
- 2. Send "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" by E-mail, FAX or postal mail to the following address (guest editor of the special section) by the above due date. There is a possibility that we shall withdraw the manuscript without receiving them by the due date, even if we have received the manuscript by electronic submission. For additional guidelines on manuscript preparation, please visit the web-page: http://www.ieice.org/eng/shiori/mokuji_cs.html

Submission to:

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IEICE/IEEE Joint Special Section on

Autonomous Decentralized Systems Technologies and Their Application to Networked Systems

The IEICE Transactions on Communications and Transactions on Information and Systems announce a forthcoming IEICE/IEEE Joint Special Section on "Autonomous Decentralized Systems Technologies and Their Application to Networked Systems" to be published in <u>January 2011</u>.

The Autonomous Decentralized Systems (ADS), born in Japan 30 years ago, have technologically evolved in communication networks, information systems, and control systems. It has been applied in many actual systems, and it has progressed in standardization activities. IEICE and IEEE published joint Special Sections on "Autonomous Decentralized Systems" in May 2000, October 2001, December 2005, and September 2008 cooperating with the International Symposium on Autonomous Decentralized Systems (ISADS). However, after that, ADS technology has been making drastic improvement, and innovative new research is being reported successively.

Recently, assurance systems are widely noticed as new system technology. Assurance system yields synergistic effects by cooperation of heterogeneous systems, which satisfy heterogeneity of requirements and adaptability to change of circumstances. Research meeting on Assurance System has been started in June 2000 under the Technical Group on Dependable Computing. In the United States, IEEE, DARPA, industries and universities established High-Assurance Systems Engineering Symposium (HASE). In July 2002 some members from Technical Group on Information Networks and Technical Group on Dependable Computing founded the International Workshop on Assurance in Distributed Systems and Networks (ADSN). The first ADSN was held in July 2002, and the workshop was anally held. In addition, the 9th ISADS 2009 was held at Athena in Greek in March 2009. It is very challenging to realize Assurance Systems with conventional Fault Tolerance Technology and High Reliability Technology. Hence, ADS is expected to be promising as the core technology for Assurance Systems substituting conventional technologies.

The objective of this Special Section is to discuss new technologies in the field of Autonomous Decentralized System through papers. The Special Section solicits paper submissions not only from people who presented new technologies in the International Symposium on Autonomous Decentralized Systems (ISADS 2009) in March 2009 but also from people who are interested in this field.

NOTE: The same paper presented in ISADS 2009 cannot be accepted because IEEE owns the copyrights to all papers in the conference proceedings. If it was originally appeared in ISADS2009, the submitted paper has to be revised substantially. It must have a different title and contain new results opening up new vistas. In this case, it is required to place a footnote indicating it clearly, for example, "This work is based on "(full title)", by (authors' names) which appeared in Proc. IEEE International Symposium on Autonomous Decentralized Systems (ISADS 2009), Athena Greek, March 2009, ©2009 IEEE." The accepted papers in this IEICE/IEEE Joint Special Section will be published in IEICE Transactions Online, but not included in the IEEE Xplore.

1. Interesting topics

- Autonomous decentralized systems, Autonomous decentralized control;
- Information service system architecture; Heterogeneous distributed information / control systems;
- Mobile ad hoc networks, Sensor networks, P2P;
- > Intelligent network, The Internet, Ubiquitous network; Mobile agents, computer-supported cooperative works;
- Fault tolerance, on-line expansion and on-line maintenance; Distributed software development and maintenance;
- Object management architecture / design pattern / application framework;
- Novel applications: electronic commerce, production systems, supply chain management, intelligent transport systems, traffic and transportation control, aerospace systems, logistics systems, medical systems, electronic government, Cyber-physical system, etc.
- 2. Papers submission and process

The submitted papers will be reviewed by referees according to the ordinary rules of the Editorial Committee. Manuscript should be prepared according to the guideline in the "Information for Authors". The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_cs.html. The length of the paper should be within eight printed pages for a PAPER and two printed pages for a LETTER in principle. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for other issues (60 days) because of the tight review schedule. In this special section, electronic submission is adopted. Prospective authors are requested to follow carefully the submission process described below.

- 1. Submit a manuscript and electronic source files (TeX/Word files, figures, authors' photos and biography) for publishing using the IEICE Web site https://review.ieice.org/regist_e.aspx. Authors should choose the [Special-EB] or [Special-ED] Autonomous Decentralized Systems Technologies and Their Application to Networked Systems as a "Type of Issue (section) / Category of Transactions" on the online screen. Do not choose [Regular-EB] or [Regular-ED].
- 2. "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" must be sent by E-mail, FAX, or postal mail to the following address (the secretary of this section) by the above due date. There is a possibility that we shall withdraw the manuscript without receiving them by the deadline, even if we have received the manuscript by electronic submission.
- * Authors select the transaction that carries the paper. Editorial committee, however, may change it.
- 3. Submission Deadline April 25, 2010 (Hard deadline)
- 4. Mailing and/or inquiry

Tomovuki Ohta

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