

# ***IEICE Communications Society* GLOBAL NEWSLETTER Vol. 11**

## **Contents**

- Message from Voice President
  - [Enhancing Activities and Services of IEICE-CS Technical Committees for Overseas Members](#) .....2
  - Iwao Sasase
  
- IEICE Activities NOW
  - [Annual Letter of CS Technical Committee](#)
    - [- Technical Meetings, 17th Communication Systems Workshop \(CSWS\) -](#) .....3
  - Yoichi Maeda, Koichiro Wakasugi, Youichi Fukada, Tetsuya Yokotani
  
- IEICE Sponsored Conference Report
  - [Japan-Korea Joint Conference on Satellite Communication \(JC-SAT 2004\) Report](#) .....5
  - Makoto Kawai Chair of the Satellite Telecommunications Technical Group
  
- IEICE Information
  - [IEICE Overseas Membership Page](#).....7
  - [IEICE Overseas Membership Application Form](#).....9
  - [From Editor’s Room](#) ..... 11

# Enhancing Activities and Services of IEICE-CS Technical Committees for Overseas Members

Iwao Sasase, Keio University  
Vice President, IEICE Communications Society



## 1. Introduction

The IEICE Communications Society (IEICE-CS)'s technical scope covers broad areas in communications and networking, and main function is to serve the needs of its 14,000 members by providing access to technical information and opportunity to discuss state-of-the-art communication technologies from various aspects as well as establishing and keeping human networks of professionals throughout the world. In order to contribute to establish ubiquitous network society by utilizing information and communication technologies, the IEICE-CS has to play more important role to support the cooperative work and discussion to create value to improve quality of service and life in human society.

## Technical Committees Activities

The sixteen standing and eleven temporal ad hoc technical committees in the IEICE-CS play the major role to provide members the opportunities to discuss the current and future technologies and exchange the ideas to foster the emerging technologies. The standing technical committees organize face-to-face technical committee meetings at least four times a year to encourage the prompt presentation of technical reports and discussion among professionals on current hot technical issues as well as future issues. On the other hand, ad hoc technical committees focus the prospective technical fields and application technologies, and provide opportunities to exchange ideas and to facilitate the creation of new ideas on emerging technologies. Many technical committees organize joint technical meetings, workshops, tutorials, symposium, and sometimes, international conferences to provide members better services and support of human inter-networking. To organize special sessions and workshops at the IEICE General Conference and Society Conference, all technical committees work together. The General Conference is held in every spring by the IEICE four Societies, together with the Human Communications Groups to provide a forum where members can present their study results and exchange views. Besides more than 3,000 technical presentations, there are special events, conferment ceremonies of Young Investigators Awards, and a social party. The Communications Society Conference is held in every autumn to provide a forum where members can present their study results and exchange views. Besides more than 1,000 technical presentations,

There are a conferment ceremony of new Fellows, and a social party.

## 3. Services for Overseas Members

The activities of IEICE-CS technical committees such as technical meeting and symposium are mainly held inside Japan. In order to extend the society's reach to professionals around the world and provide more than 1,000 global overseas members better services and support, the IEICE-CS has taken many actions. New overseas membership campaigns have been done many times by setting booths in international conferences co-sponsored by IEEE Communications Society (ComSoc) which is Sister-Society of the IEICE-CS. Due to Dual Membership, agreed with IEEE ComSoc and KICS, the IEICE-CS members can obtain the same member services for paper submission and participation of a conference. The IEICE-CS holds English-language sessions in the General Conference as well as the Society Conference, and Young Engineer Award for English-language sessions is designed for the best paper presentation in the Society Conference each year. IEICE started to donate a full set of magazine from 2002 to selected 36 foreign research organizations. English-language Global Newsletter is published by the IEICE-CS every three months to share news among members, which can be very powerful media to improve services especially for overseas members to know the activities of the IEICE-CS and its technical committees, as well as industrial trend, standards activities, research and development activities.

## 4. Task Group to Enhance Technical Committees Activities and Services

This year, the IEICE-CS set up a task group which focuses on establishing independent and healthy financial condition of the IEICE-CS, since at this moment the IEICE manages and operates all Societies in a lump. In the task group, we are currently making a proposal of making Steering Council of Technical Committees (tentative name) which seeks ways to allow each technical committee to be more flexible and attractive to provide better services to members, as well as maintaining healthy financial conditions. I, as the vice Chair, expect your strong support and contribution. I sincerely hope that the IEICE-CS will provide members more useful information and better services more timely and effectively.

# Annual Letter of CS Technical Committee

## - Technical Meetings, 17<sup>th</sup> Communication Systems Workshop (CSWS) -

Yoichi Maeda\*, NTT, Koichiro Wakasugi\*\*, Kyoto Institute of Technology, Youichi Fukada\*\*\*, NTT, Tetsuya Yokotani\*\*\*, Mitsubishi Electric, \*Chair, \*\*Vice Chair, \*\*\*Secretaries



Yoichi Maeda, Chair

### 1. Introduction

We summarize the annual activities of the Technical Committee on Communication Systems (CS). Our principal works are planning and holding technical meetings and workshops. These activities are reported in this article.

### 2. Technical scope of CS technical committee

The CS technical committee covers the major technologies for communication networks. For example, the technical interests of this committee include optical access networks, broadband services, Ethernet technologies, transport networks, communication theory, and so on. We have held many productive discussions in these areas. Moreover, we plan discussions regarding new technology fields, such as sensor networks and next generation networks (NGNs).

### 3. CS technical meetings

We hold CS technical meetings six or seven times every year. In 2004., we held seven meetings. In 2005, we have also scheduled seven meetings in Table 1.

Table 1 Technical meetings scheduled for 2005

Date	Place	Themes	Partners
May. (23-24)	Hotel Moon beach (Okinawa)	Photonic networks etc.	OCS, PN
Aug.	Tokyo Institute of Tech	Wireless communications etc.	RCS
Sep. (15-16)	Tohoku Univ.	Active networks etc.	IN, NS
Oct. or Nov.	TBD	Broadband communications etc.	CSWS
Dec.	Nagoya Univ.	Multimedia communications etc.	AVM, IE, BCT
Jan.	Yufuin (Oita)	Ethernet technologies etc.	
Mar.	TBD	Network processors	CAS, SIP

### Participating Committees:

The CS technical committee maintains relationships with other technical committees, such as the Information Networks (IN), Network Systems (NS), Optical CS (OCS), Photonic Network (PN), Radio CS (RCS), Audio Visual and Multimedia information processing (AVM (in IPSJ)), Image Processing (IE), Broadcasting and Communications (BCT (in ITE)), Circuit and Systems (CAS), and Signal Processing (SIP).

### Submission rules:

If you wish to make a submission to our committee, you will need to submit an application with a short abstract, two months before the meeting date. It should be camera ready, on 4 to 6 full-sized sheets of A4 paper, three weeks before the meeting date.

In most meetings, social gatherings are planned to exchange and share information among the participants. Moreover, this year, poster sessions will be held by student members in some meetings. We welcome your submissions to and participation in these meetings.

### 4. The 17<sup>th</sup> CSWS and CS technical meeting

We held the 17<sup>th</sup> Communication Systems Workshop (CSWS) in the Tsuruga-Ryokan, at Akanko hot springs in Hokkaido, from October 27 to 29. Professor Koichiro Wakasugi, the committee vice chair, organized this workshop.

It provided current technical and market surveys and suggestions for next-generation technologies from a variety of perspectives. This year's theme was "Verification of Broadband Services and the Future of Next-generation Media Technology". Nine invited presentations from various subject areas were given in this workshop.

After opening remarks by Professor Wakasugi, a service session was held that included three presentations, by .Mr. Michinari Tsumuraya (KDDI), Dr. Junichi Kishigami (NTT), and Professor Ryoichi Matsuno (Chuo Univ.). These sessions dealt with optical broadband service strategies and the latest issues in next-generation technology. Later, we listened to two internationally acclaimed keynote speakers. On

the 15<sup>th</sup> we invited Mr. Jean-Pierre Coudreuse (Mitsubishi Electric ITE) and Professor Stephen Weinstein (Columbia Univ.) to attend. Through their presentations and our discussions with them, we were able to survey the latest technical and market trends in the global community. Mr. Coudreuse has been called the “father of the ATM”, and is a member of the ATM inventors association in France Telecom. He spoke about “The long way to broadband and convergence”. Professor Weinstein has a high degree of expertise in various areas of communication technologies. He worked for AT&T Bell Laboratories and Bell Core. He spoke about “New trends toward next-generation networks”

During the technical sessions, three presentations were given by Professor Masayuki Tanimoto (Nagoya Univ.), Mr. Hiroyuki Okubo (NHK), and Mr. Keiji Aoki (Toyota). These presentations were on the latest audio and video technologies.

Moreover, we welcomed an IEICE fellow to this workshop. Professor Tetsuya Miki, from the University of Electro Communication was invited to talk about “STM, ATM, WDM, and Next – the True Nature of Information Transport -”. Professor Miki used to work for NTT, therefore, he was able to give a technical summary and spoke about future trends in transport network systems from both practical and academic aspects. Following his presentation, we had an informal party at which he discussed next generation networks in more depth.

In addition to this workshop, CS technical meetings were jointly held on the same dates. There were 18 presentations, including one invited presentation by Dr. Kazunori Matsuo (KDDI). He summarized the standardization of NGN. In addition to his presentation, there were three presentations that focused on the standardization of carrier-class Ethernet technologies. These presentations provided a lot of useful and interesting technical information to the participants.

Another special event in this workshop was the Japanese style banquet shown in Fig.1. Traditionally, the Japanese have dinner and drinks *after* bathing to relax. Akanko hot springs is one of the most famous hot springs in Japan. After going to the hot spring, all the participants enjoyed a good dinner, while wearing traditional Japanese “yukatas”. This is a wonderful way to release stress! Ninety percent of the participants enjoyed the experience very much. Figure 2 shows all the participants.

## 5. Other events

The CS technical committee has organized some special events, such as a symposium, tutorial, and panel discussion, at the IEICE societies’ general conferences. For example, at the last IEICE society conference held in September, tutorial sessions were held on UWBs and their applications. Network design issues, including measurement, modeling, and control, were also discussed at the symposium. At the IEICE general conference held in March, the tutorial session was on

next generation Ethernet technology.

## 6. Web page

We have provided a Web page for announcements, paper submissions and applications, and registration for technical meetings. Please visit the following URL.

<http://www.ieice.org/cs/cs/>

Moreover, general information about the CSWS can be read at:

<http://www.ieice.org/cs/cs/jpn/csws/index-e.html>

## 7. In conclusion

In this letter, we have introduced some of the activities of the CS technical committee. We welcome your requests and comments. We promise to continue planning interesting, useful, and enjoyable events, and we are looking forward to seeing you all at the 18<sup>th</sup> CSWS!



Fig. 1 Japanese style banquet



Fig. 2 All participants

## Japan-Korea Joint Conference on Satellite Communication (JC-SAT 2004) Report

Makoto Kawai  
Chair of the Satellite Telecommunications  
Technical Group



Satellite Telecommunications Technical group of IEICE organized a two-day conference, Joint Conference on Satellite Communications (JC-SAT 2004), with KOSST (Korea Society of Space Technology) on October 21-22, 2004 at Seoul Education Culture Center, Seoul Korea. More than 100 participants were actively involved in 30 state-of-the-art presentations including a keynote speech delivered by the leading researchers from Japan and Korea. The conference was successfully closed with the promise of JC-SAT2005 in Japan.

The Joint Conference on Satellite Communications has provided an opportunity to exchange technical information between Japan and Korea researchers annually since 2000. The fifth conference, JC-SAT 2004, was held in Seoul, Korea.

The conference was commenced with the inaugural address from Dr. Seon Jong Chung, President of KOSST and the congratulatory addresses from Dr. Soon-Dal Choi, Chairman of SaTReC i, Korea, and Prof. Makoto Kawai of Ritsumeikan University, Japan, on October 21, 2004.

The keynote speaker from Korea, Mr. Yong Sup Shin, Director General of Ministry of Information and Communication, was unfortunately unable to attend the conference, however his message was conveyed by the chairman of the opening session. With special focus on the successful launch of Satellite Digital Multimedia Broadcasting (S-DBM) services, his message addressed the significance of joint activities between Japan and Korea on the research and development fields of satellite communications.

The keynote speech entitled “Key Elements for Future Satellite Communications R&D” was delivered by Dr. Takashi Iida (NICT). Dr. Iida stated his view that the research and development on satellite communication technologies has not yet been matured for several research areas such as MM-wave and optical wave usage, deep space communications and so forth. He also emphasized that the future research and development items must be determined such that they can attract the interests of young researchers in this research field.

Twenty-nine papers were presented in serial 8 sessions; System Engineering I, II, III, Component & Antenna I, II, III, On-Board Processing and Resource Allocation, and Advanced Technology.

In the System Engineering sessions, state-of-the art satellite communication technologies were presented



Fig. 1 Dr. S. Choi (Upper) in his congratulatory speech and Dr. Iida (Lower) in his keynote speech

that include adaptive MC-CDMA, analysis of passive intermodulation products, interference from UWB devices, reliability analysis, code-domain on-board switching, and real-time orbit determination. Proposals for future satellite communication systems were also presented such as satellite data gathering systems for ultra-wide area, direct-multicasting systems, and Broad-Band Internet Service via Satellite (BBISS).

In the Component & Antenna sessions, various kinds of on-board components including antennas, passive and active components were reported for currently planned or operating satellite systems such as Connexion By Boeing (CBB), Communication, Ocean and Meteorological Satellite (COMS), Wideband



Fig. 2 JC-SAT2004 Podium

Inter Networking engineering test and Demonstration Satellite (WINDS), and so forth.

On-board Processing and Resource Allocation and Advanced Technology sessions covered innovative technologies regarding future satellite communication systems. The sessions intensively discussed issues on on-board frequency domain processing for multi-beam mobile satellites, software defined transponders, satellite resource allocation, multiuser interference-free modulations, application of OFDM for satellite channels, error correction scheme for QAM signals.

All the manuscripts were compiled as a proceeding of 2004 Joint Conference on Satellite Communications (JC-SAT 2004).

Both Japan and Korea organizing committee member agreed to organize the next conference JC-SAT 2005 in Japan. Details on JC-SAT 2005 will be announced on the home page of the satellite telecommunication technical group of IEICE (<http://www.ieice.org/cs/sat/jp>).



# IEICE Overseas Membership Page

The Institute of Electronics, Information and Communication Engineers

Membership for Overseas Candidates: **You can join one of the IEICE Societies and subscribe to IEICE Transaction (in English) of the registered Society as IEICE Overseas Regular Member, Overseas Student member, or Overseas Affiliate Member without voting right at the Institute’s election. Still more, you can receive Journal and Japanese Transactions by paying an additional charge. OMDP (Overseas Membership development program) is provided for candidates from countries/areas in Asia, 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.**

◆Please be noticed that Overseas Membership applies only to candidates who reside outside of Japan and who have non-Japanese citizenship.

### IEICE Societies and Publications:

Societies	Transactions	Topical areas covered
A. Engineering Sciences	EA:Trans. on Electronics	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:Trans. on Commun.	Fundamental Theories, Communication Devices / Circuits, Transmission Systems and Transmission Equipment, Optical Fiber, Fiber-Optic Transmission, Wireless Communication Technology, Terrestrial Radio Communications, Satellite and Space Communications, Optical Wireless Communications, Switching, Wireless Communication Switching, Network, Network Management / Operation, Software Platform, Internet, Antenna and Propagation, Electromagnetic Compatibility (EMC), Sensing, Navigation, Guidance and Control Systems, Energy in Electronics Communications, Terminals, Multimedia Systems, Broadcast Systems, Integrated Systems, Media Compound Method
C. Electronics	EC:Trans. on electron.	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:Trans. on Inf. & Syst.	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

### Membership Charges (UNIT: YEN):

Membership grades	Entrance Charge	Annual Membership Fee	Additional Society Registration	Additional Transaction Subscription	Journal Subscription
<b>Service coverage for overseas members</b>		Included one Society and its Transaction	Registration of one more Society and its Transaction	Subscription to an additional Transaction of registered Society	(Written in Japanese only)
<b>Regular Member (overseas)</b>	1,400	7,000	3,500(/1 Trans.)	3,000(/1 Trans.)	6,000
<b>Regular Member (overseas) with OMDP*</b>	1,000	5,000	3,000(/1 Trans.)	2,500(/1 Trans.)	5,000
Regular Member (in Japan)	2,600	13,000	3,500(/1 Trans.)	3,000(/1 Trans.)	-
<b>Student Member (overseas)</b>	0	2,000	2,000(/1 Trans.)	1,500(/1 Trans.)	6,000
<b>Student Member (overseas) with OMDP*</b>	0	1,000	1,500(/1 Trans.)	1,000(/1 Trans.)	5,000
Student Member (in Japan)	0	4,500	2,000(/1 Trans.)	1,500(/1 Trans.)	-

\***OMDP** is to support members from countries/areas of Asia, Africa, Central America, & South America.

\***Affiliate Member** is a person who is not a specialist of fields which IEICE subject to and who have an interest to our fields. And when you want to join IEICE as an Affiliate Member, you need recommendation of the society which you want to belong to.

### Notice

1. Annual Membership Fee includes one Society and one Transaction which you choose.

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.

2. If you want to register other Societies and Transaction, please check “Additional Society registration”.

Example : If you want to subscribe to Transaction of EA, and EB, please check **Society Registration** as “A”, **Additional Society registration (optional)** as “B”, and **Additional Transaction subscription (optional)** as “EB”. Your membership fee amounts to 7,000+3,500 yen / 5,000+3,000 yen.

3. If you want to subscribe to more than one Transaction in the same society which you register, please check “Additional Transaction subscription”.

Example : If you want to subscribe to Transaction of EA and A, please check **Society Registration** as “A”, and **Additional Transaction subscription (optional)** as “A”. Your membership fee amounts to 7,000+3,000 yen / 5,000+2,500 yen.

4. If you want to change membership from “Regular Member” to “Overseas Member”, you don’t need to pay an Entrance Charge.

**Optional Rapid Mailing Service:** Surface mail charge is included in the Annual Membership Fee. Optional rapid mailing service is available by air mail or surface air lifted (SAL) mail. The additional charge per year periodical depends on the mailing address, as shown in the following table.

Zones	Areas	Air mail	SAL mail
1 <sup>st</sup>	Asia; Guam; Midway islands	5,600 yen	3,200 yen
2 <sup>nd</sup>	Oceania; Near & Middle East; North & Central America; Europe	7,800 yen	4,400 yen
3 <sup>rd</sup>	Africa; South America	11,000 yen	5,600 yen

### Further information:

Please contact **IEICE Membership Activities Section;**  
**Kikai-Shinko-Kaikan Bldg., 5-8, Shibakoen 3 chome,**  
**Minato-ku, Tokyo 105-0011 JAPAN**  
 Fax +81 3 3433 6659  
 E-mail: [member@ieice.org](mailto:member@ieice.org)  
 URL: <http://www.ieice.org/>



# IEICE Overseas Membership Application Form

The Institute of Electronics, Information and Communication Engineers

URL <http://www.ieice.org/eng/member/OM-appli.html> E-mail [member@ieice.org](mailto:member@ieice.org)

◆ **Please type or print in English. The deadline for submitting application form is the 1<sup>st</sup> day of every month.**

### Personal Information

**Full name:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_  Male  Female

First name \_\_\_\_\_ Middle name \_\_\_\_\_ Last name \_\_\_\_\_

Prof.  Dr.  Mr.  Mrs.  Ms.  Miss **Place of birth:** \_\_\_\_\_ **Date of birth:** \_\_\_\_\_  
Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_

### Mailing Address

Home  Office

Name of Company/School/College \_\_\_\_\_ Department/Section \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State/Province \_\_\_\_\_

Postal code \_\_\_\_\_ Country \_\_\_\_\_

TEL \_\_\_\_\_ FAX \_\_\_\_\_ 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

I want to enter the IEICE from  April  October year: \_\_\_\_\_

**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 (It includes one Transaction in English):**

A: Engineering Sciences  B: Communications  C: Electronics  D: Information & Systems

Additional Society registration (optional):  A: Engineering Sciences  B: Communications  C: Electronics  D: Information & Systems

Additional Transaction subscription (optional):  EA: Fundamentals  EB: Communications  EC: Electronics  ED: Information & Systems

A (Japanese)  B (Japanese)  C (Japanese)  DI (Japanese)  DII (Japanese)

Journal subscription (optional)  (Japanese)

### Remittance

Remittance is available only in **Japanese yen** by a **credit card**.

Entrance charge..... ¥ \_\_\_\_\_ Journal subscription (optional)..... ¥ \_\_\_\_\_

Annual charge..... ¥ \_\_\_\_\_ Mailing option:  Air mail..... ¥ \_\_\_\_\_

Additional Transaction (optional)..... ¥ \_\_\_\_\_  SAL mail..... ¥ \_\_\_\_\_

Total remittance..... ¥ \_\_\_\_\_

Credit Card:  MasterCard  VISA  American Express Card number: \_\_\_\_\_ Expiry date(Y/M) \_\_\_\_/\_\_\_\_

Credit Card Holder: \_\_\_\_\_

Signature: \_\_\_\_\_

### Endorsement

Endorsements by two IEICE Regular Members for Regular/Affiliate Member application and by one Regular Member for Student 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.

Endorser's name \_\_\_\_\_ Membership number \_\_\_\_\_ Endorser's signature \_\_\_\_\_ Date \_\_\_\_\_

Endorser's name \_\_\_\_\_ Membership number \_\_\_\_\_ Endorser's signature \_\_\_\_\_ Date \_\_\_\_\_

### Send this form to:

The Membership Activities Section,

IEICE Headquarters Office, Kikai-Shinko-Kaikan Bldg., 5-8, Shibakoen 3 chome, Minato-ku, Tokyo 105-0011 JAPAN

# Credit Card Form (For Overseas new member)

If you wish to pay with your credit card, please fill in the following form and send it back to us along with an application form of IEICE Overseas Membership by mail.

**To:** The Institute of Electronics, Information and Communication Engineers  
IEICE Membership Activities Section

**Kikai-Sinko-Kaikan Bldg., 5-8, Shibakoen 3 Chome, Minato-ku, TOKYO  
105-0011, JAPAN**

Should you have any questions, please ask **member@ieice.org**

-----  
**I wish to pay my annual membership fee, and subscription fee with my credit card.  
So I will entrust you as follows.**

Name \_\_\_\_\_

**a) Mark the appropriate box with an X:**

1.  UC   2.  Master Card   3.  VISA   4.  JCB   5.  American Express

**b) Card Number:** \_\_\_\_\_

**c) Expiration date:**      Year      /      Month

**d) Full name of holder as it appears on the card (Please type or print):**

**e) Membership fee:** Entrance charge \_\_\_\_\_

Annual charge \_\_\_\_\_

Additional charge (optional) \_\_\_\_\_

**Amount is \_\_\_\_\_ Japanese Yen**

**f) Mailing address:**

\_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

**Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

## From Editor's Room

### ● Society Conference in Osaka

The IEICE General Conference is coming. The next conference is held in Osaka from March 21(Mon.) to 24(Thu.).

What are you conceived from “Osaka”? Senior people may image Osaka castle, Tsutenkaku-tower and Sumiyoshitaisha-shrine. Young people will think up Universal Studio Japan, Cosmo World shop, Kaiyukan aquarium, etc. Businessmen will think of eating and drinking streets at Dotonbori, Nanba, Shinsaibashi, etc. Food must be one of the key points of Osaka. I know one professor for whom the most important point in Osaka is Butaman.

In my impression, the most attractive point of Osaka is the octopus ball (TAKOYAKI). The surface of Osaka style TAKOYAKI is hard and it sounds Kari at the first bite, and the filling is soft and we feel torrrrori at the second bite.

I found a web site showing the history of TAKOYAKI. The ancestor of TAKOYAKI was Monja-yaki or Dondon-yaki. In the beginning of Showa era, children in Osaka were eating Rajio-yaki whose surface was wheat flour and the filling was alimentary yam paste (Konnyaku), cibol(Negi) and fibrous meat. A customer of Aizuya in Osaka ate Rajio-yaki and said “The filling is octopus in Akashi.” The store manager studied the dough fitting for octopus and developed Osaka style TAKOYAKI in 1935.

I heard we can find street stands of TAKOYAKI not only in Japan but also in Taiwan, China, Korea and some east Asian countries recently. It is not a Japanese food but an international fast food now.

Please enjoy spring Osaka and hot TAKOYAKI.



IEICE Global News Letter Editorial Staff

#### Editorial Staffs of this issue



No special order is observed.

**Shinji UEBAYASHI**

NTT DoCoMo

Wireless Laboratories

*Director, Newsletter Publications, IEICE Communications Society*



**Katsunori YAMAOKA**

Tokyo Institute of Technology

Global Scientific Information and Computing Center

*Director, Newsletter Publications, IEICE Communications Society*

IEICE Transactions on Communications  
Special Section on  
**Multimedia QoS Evaluation and Management Technologies**

The IEICE (Institute of Electronics, Information and Communication Engineers) Transactions on Communications announces a forthcoming Special Section on "Multimedia QoS Evaluation and Management Technologies" to be published in February 2006.

With the advances in IP and multimedia technologies, multimedia services such as video streaming and videophone/videoconferencing are being developed and provided. Moreover, by digital broadcasting, high definition and interactive TV programs are becoming widespread and digital broadcasting for mobile terminals is now planned. For commercial multimedia services, it is necessary to assure an acceptable quality of service (QoS). It is therefore important to properly evaluate and manage users' perceptions of multimedia QoS in order to design or control the multimedia application or network. Currently, ITU-T/R and IETF are discussing the perceptual QoS evaluation methods of voice/audio media or video media and in-service QoS measurement/management methods. The purpose of this special section is to present R&D activities and innovations that advance the progress of multimedia QoS evaluation and management technologies.

**Scope:**

Scopes of the special section include, but are not limited to, the following areas.

- Psychological evaluation of multimedia QoS (subjective quality assessment, objective quality evaluation, human perception and cognition, sensory information, biological information, and other fundamental contributions in auditory, visual, and haptic senses etc.)
- Analysis method to evaluate customer satisfaction and utility for the customer
- Multimedia QoS measurement
- QoS evaluation of multimedia network, digital broadcasting, or digital audio/video transmission
- Multimedia QoS mapping of relationships among network-level, application-level, user-level QoS
- Multimedia QoS monitoring, management, and control

Above evaluation or management technologies are relevant to multimedia services such as IP-phone, video streaming, digital broadcasting, videophone/videoconferencing, World-Wide-Web, computer supported collaborative work (CSCW), remote lectures, remote medical treatment, e-learning, and on-line games.

**Submission Instructions:**

Papers must be submitted by **April 20, 2005**. Manuscripts should be prepared according to the guideline given in the "Information for Authors". The latest version is available at the web site, <http://www.ieice.org/eng/shiori/mokuji.html>, or you can refer to its brief summary attached to IEICE Transactions. The length of the paper should not exceed 8 printed pages 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, only electronic submission is accepted. Prospective authors are requested to follow the submission process described below carefully.

1. Submit papers using the IEICE web site [http://review.ieice.org/regist\\_e.wbt](http://review.ieice.org/regist_e.wbt). The PDF file format is the only acceptable file format. Any other file formats, e-mail submission, or postal mail are NOT acceptable. Authors should choose the [Special-EB] Multimedia QoS Evaluation and Management Technologies as a "Type of Issue (section)/Category of Transactions" on the online screen. Do not choose [Regular-EB] Communications or other special sections.
2. The "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" must be sent by postal mail to the following address (secretariat of this issue). Please write "Special Section on Multimedia QoS Evaluation and Management Technologies" on the envelope.

Takanori Hayashi  
NTT Service Integration Laboratories  
3-9-11 Midori-cho, Musashino-shi, Tokyo 180-8585, Japan  
e-mail: t.hayashi@lab.ntt.co.jp

**Editorial Committee:**

Editors-in-Chief Hisao Yamamoto (Musashi Inst. Tech.)  
Secretary Takanori Hayashi (NTT)  
Associate Editors Yutaka Ishibashi (Nagoya Inst. Tech.), Eisaburo Itakura (SONY), Ryoichi Kawada (KDDI), Nobuhiko Kitawaki (Tsukuba Univ.), Kenji Sugiyama (Seikei Univ.), Eisuke Nakasu (NHK), Boon Choong Seng (NTT DoCoMo), Kenichi Hosaka (ATR), Yuukou Horita (Toyama Univ.), Mitsuru Miyauchi (Chiba Inst. Tech.), Tsutomu Murase (NEC), Katsunori Yamaoka (Tokyo Inst. Tech.), and Toshiyuki Yoshida (Fukui Univ.)

*Please note that if accepted for publication, all authors, including authors of invited papers, are requested to pay for the page charges to cover the partial cost of publication. Authors will receive 100 copies of the reprints.*