FINAL PROGRAM

International Joint Workshop on OPS & OCDMA

Conference Co-Chairs:

Prof. Shizhong Xie,	Department of Electronic Engineering, Tsinghua University, China
Dr. Naoya Wada,	Phonics network group, New generation network research center, NICT, Japan
Dr. Xu Wang,	Electrical, Electronic&Computer Engineering Dept. School of Engineering and Physical Sciences (EPS) Heriot Watt University, UK
Dr. Hiroyuki Uenohara,	Precision & Intelligence Laboratory, Tokyo Institute of Technology, Japan

NICT, Tokyo, Japan November 7-8, 2007



NICT Area and Floor Map



• Workshop (Main Building 4F, International Conference Room)



O Exhibition (13:00-14:00, 7th) (5th Building 1F, Lobby)



Program of International Joint Workshop on OCDMA and OPS

Day1:11/7/2007	,			
Opening & Key	note speeches			
Dr. Y.Matsushima	NICT	Japan	Opening	9:00- 9:10
Prof. S.Xie	Tsinghua Univ.	China	Opening	9:10- 9:20
Prof. T.Konishi	Osaka Univ.	Japan	Opening	9:20- 9:30
Dr. T.Kamiya	NICT	Japan	Researches toward Future Photonic Network at NICT Keynote	9:30-10:2
Coffee Break				10:20-10:4
OCDMA worksł	пор			
Session 1:				
Prof. X.Wang	Heriot Watt Univ.	UK	OCDMA with advanced modulation formats	10:40-11:0
Dr. Y.Komai	Japan Women's Univ.	Japan	Variable Bandwidth Spectrum Shaper and Application to THz Repetition Rate Optical Clock Generation	11:00-11:2
Prof. X.Chen	Nanjing Univ.	China	WDM Compatible OCDMA en/decoding using equivalent phase shift	11:20-11:4
Lunch Break				11:40-13:0
Exhibition				13:00-14:0
Session 2:				
Dr. K.Sasaki	OKI Electric	Japan	Suppression of Noise in Coherent OCDM Transmission System	14:00-14:2
Prof. B.Chen	Zhejiang Univ.	China	Optical Local Area Network Based on Ring Topology and Optical Code Division Multiple Access Technology	14:20-14:4
Prof. T.Konishi	Osaka Univ.	Japan	Monitoring of O-CDMA Codes using Time-Frequency map	14:40-15:0
Prof. H.Chen	Tsinghua Univ.	China	Performance Evaluation of 511-chip 640Gchip/s OCDMA En/decoders with REC-FBG	15:00-15:2
Prof. B.Yoo	UC Davis	USA	Optical-Packet Switching	15:20-15:4
Coffee Break				15:40-16:0
Panel Discussion	Moderator :	Prof. X.	Nang	16:00-17:3
	Panelists :		Chen (Nanjing Univ., China), Prof. S.Gao (Zhejiang Univ., China), Prof. K.Kitayama Univ., Japan), Dr. K.Sasaki (OKI Electric, Japan), Dr. N.Wada (NICT, Japan)	
Reception		``		18:00-20:00
Dev/2:44/8/2007	,			
Day2:11/8/2007				
Keynote speech				
Prof. A.Wei	HK Poly Univ.	HK	Deflection routing in all-optical packet-switched networks Keynote	9:00- 9:50
OPS workshop				
Session 1:				
Prof. K.Kitayama	Osaka Univ.	Japan	All-optical RAM-based buffer for packet switch	9:50-10:1
Dr. M.Scaffardi	CNIT	Italy	Photonic digital processing for ultra-fast all-optical networks	10:10-10:3
Coffee Break				10:30-10:5
Dr. R. Man	Amonics	ΗK	EDFA for next generation high speed FTTH network	10:50-11:1
Dr. Y.Aoki	Fujitsu Lab.	Japan	WDM Optical Packet Interconnection for Petascale Supercomputer	11:10-11:3
Prof. W.Hu	Shang Jiaotong Univ.	China	Demonstration of Multicasting and Burst-like ASON/GMPLS	11:30-11:5
Dr. K.Ikezawa				
	Yokogawa Electric	Japan	10Gbps / 40Gbps Burst Mode Clock Recovery Technologies and their Applications	
	Yokogawa Electric	Japan	10Gbps / 40Gbps Burst Mode Clock Recovery Technologies and their Applications	12:10-13:3
NICT Lab. Tour	Yokogawa Electric	Japan	10Gbps / 40Gbps Burst Mode Clock Recovery Technologies and their Applications	12:10-13:3
NICT Lab. Tour Session 2:				12:10-13:3 13:30-15:0
NICT Lab. Tour Session 2: Prof. K.Qiu	UESTC	Japan China	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload	12:10-13:3 13:30-15:0 15:00-15:2
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara	UESTC Tokyo Institute of Tech .	China Japan	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing	12:10-13:3 13:30-15:0 15:00-15:2 15:20-15:4
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu	UESTC Tokyo Institute of Tech. Pekin Univ	China Japan China	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results	12:10-13:3 13:30-15:0 15:00-15:2 15:20-15:4 15:40-16:0
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu Prof. H.Imaizumi	UESTC Tokyo Institute of Tech . Pekin Univ Univ. of Tokyo	China Japan China Japan	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results 320Gb/s Multi-Wavelength Optical Packet Switching with Contention Resolution Mechanism using PLZT Switches	12:10-13:3 13:30-15:0 15:00-15:2 15:20-15:4 15:40-16:0 16:00-16:2
Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu Prof. H.Imaizumi Prof. N.Chi	UESTC Tokyo Institute of Tech. Pekin Univ Univ. of Tokyo Huazhong Univ. of Sci. and Tech.	China Japan China Japan China	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results 320Gb/s Multi-Wavelength Optical Packet Switching with Contention Resolution Mechanism using PLZT Switches Improve the Performance of Orthogonal ASK/DPSK Modulation Format by in-line coding	12:10-13:3 13:30-15:0 15:00-15:2 15:20-15:4 15:40-16:0 16:00-16:2 16:20-16:4
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu Prof. H.Imaizumi Prof. N.Chi Dr. N.Wada	UESTC Tokyo Institute of Tech . Pekin Univ Univ. of Tokyo	China Japan China Japan	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results 320Gb/s Multi-Wavelength Optical Packet Switching with Contention Resolution Mechanism using PLZT Switches	12:10-13:3 13:30-15:0 15:00-15:2 15:20-15:4 15:40-16:0 16:00-16:2 16:20-16:4 16:40-17:0
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu Prof. A. Xu Prof. H.Imaizumi Prof. N.Chi Dr. N.Wada Coffee Break	UESTC Tokyo Institute of Tech. Pekin Univ Univ. of Tokyo Huazhong Univ. of Sci. and Tech. NICT	China Japan China Japan China Japan	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results 320Gb/s Multi-Wavelength Optical Packet Switching with Contention Resolution Mechanism using PLZT Switches Improve the Performance of Orthogonal ASK/DPSK Modulation Format by in-line coding 160Gbit/s/port Optical Packet Switch Prototypes and Related Technologies	12:10-13:30 13:30-15:00 15:00-15:20 15:20-15:40 15:40-16:00 16:00-16:20 16:20-16:40 16:40-17:00 17:00-17:20
NICT Lab. Tour Session 2: Prof. K.Qiu Prof. H.Uenohara Prof. A. Xu Prof. H.Imaizumi Prof. N.Chi Dr. N.Wada	UESTC Tokyo Institute of Tech. Pekin Univ Univ. of Tokyo Huazhong Univ. of Sci. and Tech.	China Japan China Japan China Japan Prof. K.ł	OPS Research in UESTC-a novel optical packet format with NRZ label and DCS-RZ payload 40Gbps operation of a semiconductor optical DA converter and its application to label processing An Upgrading Time-Space Label Switching Protocol (UTS-LSP) with more improved results 320Gb/s Multi-Wavelength Optical Packet Switching with Contention Resolution Mechanism using PLZT Switches Improve the Performance of Orthogonal ASK/DPSK Modulation Format by in-line coding	11:50-12:10 12:10-13:30 13:30-15:00 15:00-15:20 15:20-15:40 15:40-16:00 16:00-16:20 16:20-16:40 16:40-17:00 17:00-17:20 17:20-18:50

Panelists : Dr. H.Harai (NICT, Japan), Prof.H.Yongqi (Peking Univ., China), Prof. S.Yikai (Shanghai Jiao Tong Univ., China), Prof. S.Xie (Tsinghua Univ., China), Prof. H.Uenohara (TIT., Japan)

Closing Address

Conference Arrangement

• Venue

International Conference Room, Main Building 4F, NICT Headquarters (4-2-1 Nukui-kitamachi, Koganei, Tokyo, 184-8795 JAPAN)

• Access

From Narita Airport to NICT

Narita Airport \rightarrow (JR Narita Express) \rightarrow JR Tokyo Station \rightarrow (JR Chuo line) \rightarrow JR Kokubunji Station \rightarrow (Taxi/Bus/On foot) \rightarrow NICT (Time table of JR Narita Express : http://www.jreast.co.jp/e/nex/index.html)

From Narita Airport to JR Tokyo Station (70 minutes)

Please take JR Narita Express (rapid train which runs every one hour) at the airport and get off at Tokyo station.

From JR Tokyo station to JR Kokubunji Station (45 minutes)

Please take JR Chuo line (the train's body color is orange, track 1 and 2.) and get off JR Kokubunji Station.

From JR Kokubunji Station to NICT

By Taxi (Recommended): Please turn left after exiting a ticket barrier, and go down the stairs. You can find a taxi stand on the right side. It will cost about 1000-Yen. (10 minutes)

* Please show this direction to the taxi driver. (Please go to NICT)

By Bus: Please turn left after exiting a ticket barrier, and go down the stairs. You can find a bus stop on the right side. Please take TACHIKAWA-Bus bound for "Syowa-Byouin".

On foot: It will take about 15min.

From NICT to Narita Airport

 $\begin{array}{l} \mathsf{NICT} \longrightarrow (\mathsf{Taxi/Bus/On \ foot}) \longrightarrow \mathsf{JR} \ \mathsf{Kokubunji} \ \mathsf{Station} \longrightarrow (\mathsf{JR} \ \mathsf{Chuo} \ \mathsf{line}) \\ \longrightarrow \ \mathsf{JR} \ \mathsf{Shinjuku} \ \mathsf{Station} \longrightarrow (\mathsf{JR} \ \mathsf{Narita} \ \mathsf{Express}) \longrightarrow \ \mathsf{Narita} \ \mathsf{Airport} \\ (\mathsf{Time \ table \ of \ JR \ Narita \ \mathsf{Express} \ : \ \mathsf{http://www.jreast.co.jp/nex/timetable/to_narita/shinjyuku/index.html}) \end{array}$

From JR Kokubunji station to JR Shinjuku Station (25 minutes)

Please buy a railway ticket (from Kokubunji to Narita Airport Terminal 1 or 2) and a Narita Express ticket (from Shinjuku to Narita Airport Terminal 1 or 2) at Tickets Counter (Green Counter) and enter the ticket gate. Please take JR Chuo line at track 3 or 4 and get off at JR Shinjuku Station (arrive at track 7 or 8).

From JR Shinjuku Station to Narita Airport (80 minutes)

Please change a train to Narita Express at track 5 or 6 and get off at Narita Airport terminal 1 or 2.



JR Railroad Map between JR Kokubunji Station and Narita Airport

Access from JR Kokubunji Station to NICT



Workshop Registration Desk

Time : 8:30 -, Nov. 7th, 8th.

Place : At the front of the International Conference Room 4F in the Main Building. Please take the elevator to the fourth floor and the desk is on your right.

Workshop

Time : 9:00-17:30, Nov. 7th. 9:00-18:50, Nov. 8th. Place : International Conference Room on 4F in the Main Building.

• Exhibition

Time : 13:00-14:30, Nov. 7th. Place : Lobby on 1F in the 5th Building.

• Lunch

Time : 11:40-13:00, Nov. 7th, 8th. Place : Restaurant in the back of the Main Building.

[Restaurant] (OPEN : 11:30-13:30)

How to use the restaurant

#1 Buy the meal ticket with a ticket vendor. You can find it in the restaurant.

There are three kinds of menus (A, B, C).

A and B: 400 yen (main dish, rice, soup and small bowl)

- C : 300 yen (main dish, rice and soup (or Curry, Soba, Udon))
- #2 Take the tray and chopsticks.
- #3 Put a ticket in a basket on the counter

(The leftmost counter is for Curry, Soba, Udon.)

#4 Pick up the dishes.

Menu of restaurant

Nov. 7th

A set : Deep fried shrimp, rice, soup and small bowl

B set : Mustard deep-fried Tofu, rice, soup and small bowl

C set : Meatball, rice, soup

Nov. 8th

A set : Deep-fried fish with Chinese sauce, rice, soup and small bowl

B set : Deep-fried Chicken, rice, soup and small bowl

C set : Cream stew, rice, soup

[Cafeteria] (OPEN : 10:00-14:00)

All menus are 300 yen. Please pay the money at the casher in advance. Please tell a waitress your order at the casher. She cannot speak English. Please show Japanese menu to her. She will bring it to you.

Menu of cafeteria

- Syoyu ramen (Chinese noodle)
- Miso ramen (Chinese noodle)
- Tanmen (Chinese noodle)
- Wafu Spaghetti (Japanese style pasta)
- Napolitan (Tomato ketchup taste pasta)
- Yakisoba (Chow mein)

Japanese menu 「醤油ラーメン」 「味噌ラーメン」 「タン麺」 「醤油スパゲティ」 「ナポリタン」 「焼きそば」

Reception

Time : 18:00-20:00, Nov. 7th. Place : Reception Hall in the back of the 5th Building.

Contact Information

Naoya Wada (NICT, JAPAN), Tel : +81-42-327-6371, E-mail : wada@nict.go.jp Tetsuya Miyazaki (NICT, JAPAN), Tel : +81-42-327-6791, E-mail : tmiyazaki@nict.go.jp Fax : +82-327-7035

• Participants List

From abroad

Prof. XIE Shizhong (Tsinghua University)
Prof. CHEN Hongwei (Tsinghua University)
Prof. HU Weisheng (Shanghai Jiao Tong University)
Prof. SU Yikai (Shanghai Jiao Tong University)
Prof. QIU Kun (University of Electronic Science and Technology of China)
Prof. CHI Nan (Huazhong University of Science and Technology)
Prof. GAO Shiming (Zhejiang University)
Prof. CHEN Biao (Zhejiang University)
Prof. CHEN Xiangfei (Nanjing University)
Prof. He Yongqi (Peking University)
Prof. XU Anshi (Peking University)
Prof. Alex. Wai (The Hong Kong Polytechnic University)
Prof. S.J. Ben Yoo (UC Davis,USA) (Video Conference)
Dr. Mirco Scaffardi (CNIT)

Dr. Ray Man (Amonics Limited)

From Japan

- Dr. Yuichi Matsushima (VP NICT)
- Dr. Takeshi Kamiya (Program Director NICT)
- Dr. Fumito Kubota (Director NICT)
- Dr. Tetsuya Miyazaki (GL NICT)
- Dr. Naoya Wada (NICT)
- Dr. Abedin Kazi sarwa r(NICT)
- Dr. Yosinari Awaji (NICT)
- Dr. Yukiyoshi Kamio (NICT)
- Dr. Moriya Nakamura (NICT)
- Dr. Makoto Naruse(NICT)
- Dr. Satoshi Shinada (NICT)
- Dr. Nobuyuki Kataoka (NICT)
- Dr. Hideaki Furukawa (NICT)
- Dr. Guo-Wei Lu (NICT)
- Dr. Hiroaki Harai (NICT)
- Prof. Ken-ichi Kitayama (Osaka U)
- Prof. Tsuyoshi Konishi (Osaka U)
- Prof. Hiroyuki Uenohara (TIT)

Prof. Hideaki Imaizumi (U Tokyo)

- Dr. Yuki Komai (JWU)
- Dr. Yasuhiko Aoki (Fujitsu Lab.)
- Dr. Kensuke Sasaki (Oki Electric Industry Co.)
- Dr. Katsuya Ikezawa (Yokogawa Electric Corp.)

Institutes:

NICT: National Institute of Information and Communication Technology THU: Tsinghua University **PKU: Peking University** ZJU: Zhejing University SJTU: Shanghai Jiaotong University NJU: Nanjing University UESTC: University of Electronic Science and Technology of China Huazhong Univ. of Sci. and Tech.: Huazhong University of Science and Technology HK Poly Univ: The Hong Kong Polytechnic University UC Davis: University of California at Davis HWU: Heriot Watt University CNIT: Photonic Networks National Laboratory of the Italia Inter-University Consortium for Telecommunications Osaka U: Osaka University TIT: Tokyo Institute of Technology U Tokyo: University of Tokyo JWU: Japan Women's University

Amonics Ltd.

FUJITSU LABORATORIES LTD.

Oki Electric Industry Co., Ltd.

Yokogawa Electric Corporation

Map around NICT

