Technical Group on Communication Systems

Chair : Yoichi MAEDA (NTT)
Vice chair : Koichiro WAKASUGI (Kyoto Inst. of Technology)
Secretary : Youichi FUKADA (NTT), Tetsuya YOKOTANI (Mitsubishi Electric)

Date : May 27-28, 2004
Topics : Photonic networks, GMPLS, etc.
Conference Place : Kochi University of Technology (K building, 3F). URL: http://www.kochi-tech.ac.jp/kut_J/general/map.html

Normal Speech Speech, Q&A 25min.
Invited Speech Speech, Q&A 40min.

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start		end		
9:15	-	9:40	1	160Gbps/40Gbps x 4WDM serial to parallel conversion using highly nonlinear fiber Yoshinari Awaji, Tetsuya Miyazaki, Fumito Kubota(CRL)
9:40	-	10:05	2	Bit-rate-transparent NRZ all-optical wavelength conversion by operating SMZ switch with new scheme and its transmission performance Shigeru Nakamura (NEC)
10:05	-	10:30	3	Development of Bascule Optical Switch Takeshi Saito, Seiichiro Tabata, Tatsuo Hatta (Mitsubishi Electric)
10:30	-	10:55	4	All-optical wavelength converter operating at 2.5~ 40Gbit/s non-returen-to-zero Toshiharu Miyahara(OITDA/ Mitsubishi Electric), Atsushi Sugitatsu (Mitsubishi Electric), Kazuhisa Takagi, keisuke Matsumoto, Toshitaka Aoyagi, Tatsuo Hatta(OITDA/ Mitsubishi Electric)
10:55	-	11:20	5	Mechanism of Quartz Etalon Supported at the Middle Point Shigeru Ohshima, Masahiro Ogusu, and Kazuhiko Ide(Toshiba)
11:20	-	11:45	6	Low timing jitter LD pulse generator with wide range tunable repetition rate. Hiroaki Mozuno, Shintaro Kono, and Koji Nonaka (Kochi University of Technology)
11:45	-	12:40	break	
12:40	-	13:20	7	Network control technologies for next generation photonic network --Photonic Internet Laboratory: New challenges for future photonic network-- Naoaki Yamanaka (Keio Univ.)
13:20	-	13:45	8	Quasi-Static Lightpath Configuration Method in Large-Scaled WDM Networks Shinya Ishida, Shin'ichi Arakawa, Masayuki Murata(Osaka Univ.)
13:45	-	14:10	9	Proposal of Architecture and Scheduling Algorithm for Virtual Fully Connected WDM Networks Kang Xi, Shin'ichi Arakawa and Masayuki Murata (Osaka University)
14:10	-	14:35	10	High Speed CWDM method for Photonic Router Yamaoka Ryouji, SagaraKazuhiko, Nishimura Shinji(Hitachi CRL)
14:35	-	15:00	11	Photonic network configuration employing G.709 OCh wavelength-path standardized by ITU-T Aisawa Shigeki, Watanabe Atsushi, Takigawa Yoshihiro, Koga Masafumi, Oda Kazuhiro (NTT)
15:00	-	15:10	break	
15:10	-	15:35	12	Interworking DWDM Equipment and PXC Operation using GMPLS for a Reliable Optical Network T. Tsuritani, T. Otani, M. Hayashi, H. Tanaka (KDDI Labs), S. Yun, M. Yanagisawa, M. Kawamichi, H. Tanuma(NEC), A. Banerjee, E. McGinnis (Calient Networks)
15:35	-	16:00	13	Field test of GMPLS all-optical path rerouting Shoichiro Asano, Takayuki Fujino (National Institute of Infomatics), ○Shinya Tanaka, Hirokazu Ishimatsu, Takeshi Hashimoto, Atsuo Inomata, Toshikatsu Kanda, Mikio Yagi, Shiro Ryu, Susumu Yoneda (Japan Telecom), Toshihito Nishii, Nobuyuki Yoshii, Akira Sasaki (Oki Electric Industry), Konosuke Fukada (Cisco Systems K.K.), Teruko Fujii, Takeshi Saito, Eiichi Horiuchi, Satoshi Tamura, Motofumi Tanabe (Mitsubishi Electric)
16:00	-	16:25	14	Standardized management interface between switch hardware andnetwork element software for advancing photonic network Imajuku Wataru, Shimano Katsuhiro, Sahara Akio, Tsukishima Yukio, Watanabe Atsushi, Koga Masafumi, Takigawa Yoshihiro (NTT)
16:25	-	16:50	15	Optical burst switching experiment with 2 way signaling using PLC optical switch controled by GSMP signaling Tsukishima Yukio, Sahara Akio, Sone Yoshiaki, Shimano Katsuhiro, Koga Masafumi (NTT)
16:50	-	17:30	16	Necessity and Role of Entrepreneur Engineering ------ A Case study: Start Up Creation Based on Collaboration Between University and industry ------ Gota Kano (Kochi University of Technology)

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start		end		
9:00	-	9:25	17	LD-based optical highspeed optical wireless (primitive) system with smart beam control mechanism Yoshiyuki Isobe and Koji Nonaka (Kochi University of Technology)
9:25	-	9:50	18	Parallel Wireless Optical Communication Using High Speed CMOS Image Sensor Satoshi Miyauchi, Toshihiko Komine (Keio Univ.), Teruyuki Ushiro, Shinichi Yoshimura (Sony-KRC), Shinichiro Haruyama, Masao Nakagawa (Keio Univ.)
9:50	-	10:15	19	Space-Time Block Coding for Atmospheric Optical Communication System without Channel State Information Hiroshi Yamamoto, Tomoaki Ohtsuki (TUS)
10:15	-	10:40	20	Optical Wireless MIMO (OMIMO) Daisuke Takase, Tomoaki Ohtsuki (TUS)
10:40	-	11:05	21	Reduction of Optical Beat Interference by time-encoding for 2-ary PPM-SAC Optical CDMA Fumitaka Hirano, Tatsuma Hirano, Takaya Miyazawa, Iwao Sasase (Keio Univ.)
11:05	-	11:30	22	Chip-Level Detection in Optical Frequency Hopping Code-Division Multiple-Access Shoji Ichiki, Tomoaki Ohtsuki (TUS)
11:30	-	11:55	23	Optical multicast network using optical-code label switch Satoshi Yoshima, Kiyoshi Onohara (Osaka Univ.), Naoya Wada, Fumito Kubota (NiCT), Ken-ich Kitayama (Osaka Univ.)
11:55	-	12:55	break	
12:55	-	13:20	24	Proposal of shared memory access methods for Lambda Computing environment Hirihisa Nakamoto, Ken-ichi Baba, Masayuki Murata (Osaka Univ.)
13:20	-	13:45	25	A Preemptive Scheme with Two-Way Release Message Transmission in Optical Burst Switching -- Impact of Wavelength Selection Rule on Burst Loss Probability -- Takuji Tachibana, Masayuki Ueda, Shoji Kasahara (NAIST)
13:45	-	14:10	26	A Multi-class Bandwidth Control Method for Realizing Low Delay and Fairness Shinichi Yoshihara, Yasunobu Kasahara (NTT)
14:10	-	14:35	27	Routing and Wavelength Assignment for Fairness among Connections in WDM Network Takahiro Matsuda, Naohiro Sakiyama, Miki Yamamoto (Osaka Univ.)
14:35	-	15:00	28	Media Access Protocol for Optical Burst Switched Metro Ring Network with TTFR System Yutaka Arakawa, Naoaki Yamanaka, Iwao Sasase (Keio Univ)

Announcement of the next conference:
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Please access the following home page for more detailed information including the meeting schedule.
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