

PPIC'08

Pan-Pacific Imaging Conference '08

June 25-27, 2008

Arcadia-Ichigaya Tokyo, JAPAN

Preliminary Programs



Sponsored by:
The Imaging Society of Japan

Cooperating Society:
The Society of Photographic Science and Technology of Japan

isj



Supported by:
Society of Imaging Science and Technology
The Japanese Society of Printing Science and Technology
Korean Society for Imaging Science and Technology
The Chinese Society for Imaging Science and Technology
Reprographic Scientists and Engineers Society of China

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These Program and Time Table are subject to change.

Presentation length includes time for Q&A at the end of the talk.

Keynote: 45 minutes

Regional Report: 25 minutes

Topical Session: 30 minutes

Invited: 30 minutes

Oral: 20 minutes

Interactive (preview): 5 minutes

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Registration Desk

Registration desk will be open in the following time.

Wednesday, June 25 to Friday, June 27:
9:00 – 17:00

Reception

Conference Reception: in the evening of June 26, Thursday
17:10 – 19:00

Exhibition

see Page12

Exhibition of printing and imaging related products will be open

Thursday, June 26 11:00 – 17:00

Friday, June 27 10:00 – 16:00

General Information

PPIC'08's Web site: <http://www.isj-imaging.org/event/conference/PPIC08/>

PPIC'08 Conf. Office: Att. ISJ, c/o Tokyo Polytechnic University,
2-9-5 Honcho, Nakano-ku, Tokyo 164-8678 Japan

Tel +81-3-2273-9576, Fax +81-3-3372-4414

e-mail: event@isj-imaging.org

Invitation to the Pan-Pacific Imaging Conference '08

In 2008, The Imaging Society of Japan (ISJ) celebrates its 50th anniversary since 1958. Taking this opportunity, we have an International Conference on imaging science and technologies named "Pan-Pacific Imaging Conference '08 (PPIC '08)", on June 25-27, 2008 at Arcadia-Ichigaya Convention Hall Tokyo, Japan. Jointly hosted with the Society of Photographic Science and Technology of Japan (SPSTJ), this conference is being held to establish strong relationship with Asia, Oceania, North America and countries of Europe.

The PPIC '08 conference committee cordially invites you to join us and let discuss and consider the future imaging and hardcopy technologies with us. The conference consist of everyday keynote presentations on imaging technology, valuable reviews on the state-of-arts and leading-edge trends in imaging technology from the United States, China, Korea and Vietnam, along with invited papers, technical papers and contributed poster presentations. The conference affords all of participants a good opportunity to learn about the latest technical development and to find the future direction of imaging science and technologies.

The cooperation and collaboration of each country is needed in order to develop imaging technology in the 21st century. We hope that this year's PPIC will be an opportunity that will promote major developments in imaging technology.

Join us in Tokyo for Pan-Pacific Imaging Conference 2008!

Takashi KITAMURA, General Chair
Yasuji FUKASE, Co-General Chair
Takao ABE, Co-General Chair

Three Program Topics in this Conference

1. Imaging Systems **TRACK I**

Electrophotography
(Process & Material)
Inkjet
Direct Marking &
Novel Printing
On demand &
Industrial Printing



2. Intelligence & Science **TRACK II**

Color Science
Image Capture &
Camera System
Image Processing,
Recognition and
Evaluation
Image Archives
Applications of Imaging

3. Innovation for Society **TRACK III**

Electronic Paper & Flexible Display
Rewritable & Ecology
Digital Fabrication
3D & Secure Imaging
Organic & Photoconductive
Material

Wednesday June 25, 2008

10 : 00-10 : 45

PLENARY SESSION

Session Chair: Koichi TAKIGUCHI
Fuji XEROX Co., Ltd.

- *HP's SPT and Edgeline technology with emphasis on photo finishing (Keynote)**
Rob Beeson, Hewlett-Packard Company (USA)

10:50-12:20

TOPICAL SESSION

Session Chair: Takao ABE
Shinshu University

- *Recent Silver-halide Printing Technology and Electrophotography Printing Technology for Digital Photography**

Yasuharu Iwaki, Makoto Yamada, Hideto Ikoma,
FUJI FILM Corporation, Koichiro SHINOHARA,
Fuji XEROX Co., Ltd. (Japan)

- *Recent Thermal Printing Technology for Digital Photography**

Akio HITACHI, Sony Corporation (Japan)

- * Digital Halftoning for Photo Printing on Electro-Photographic Printer**

Naoto KAWAMURA, Canon Inc. (Japan)

TRACK I

13:35-14:50

INK JET (1)

Session Chairs: Masahiko FUJII, Fuji XEROX Co.,
Ltd. and Hiroshi TAKEUCHI, Konica Minolta IJ
Technologies, Inc.

- *Recent Developments and Trends for Ink Jet Printing Technologies (Invited)**, Hue Le, PicoJet Inc. (USA)

- *Next-generation ink jet printhead using thin film piezo elements**, Motonori Okumura, Tomoaki Takahashi, SEIKO EPSON CORPORATION (Japan)

- *Thin Film Piezo Inkjet Printhead having Matrix Nozzle Arrangement using MEMS Technology**, Shinji Seto, Hirofumi Nakamura, Michiaki Murata, Naoki Morita, Fuji Xerox Co.,Ltd. (Japan)

- *Preparation of Electro-conductive Inkjet Inks through Silver Halide Photographic Emulsion (Interactive)**, Shusaku Tsuruga, Takao Abe, Shinshu University (Japan)

15:05-16:45

ON DEMAND & INDUSTRIAL PRINTING

Session Chairs: Tomofumi TOKIYOSHI, Oji Paper Co., Ltd. and Masaru ONISHI, Mimaki Engineering Co., Ltd.

- *On Demand and Industrial Printing- Win using Kodak Inkjet Solutions (Invited)**, Anir Dutta, Don Allred, Eastman Kodak Company (USA)

- *Kodak NexPress Fifth Imaging Unit Solutions**, David S. Weiss, Eastman Kodak Company (USA)

- *Highly Reliable and Resolvable Imaging Process Technology of Ultra-High-Speed Continuous-Feed Laser Printers for Professional Use**, Takeshi Mochizuki, Teruaki Mitsuya, Ricoh Printing Systems, Ltd. (Japan)

- *Quality, speed, productivity - recent Xeikon digital color press and toner technologies (Invited)**, Sunny Moon, Punch Graphix (Australia), Taka Muramatsu, Punch Graphix Japan Co., Ltd. (Japan)

TRACK II

13:35-14:45

IMAGE CAPTURE & CAMERA SYSTEM

Session Chairs: Hideaki Haneishi, Chiba University and Hideaki YOSHIDA, Olympus Corporation

- *The development of a High-Dynamic-Range Video Chipset (Invited)**, Ricardo J. Motta, PIXIM Inc. (USA)

- *Single-shot two-step phase-shifting digital holography capable of instantaneous three-dimensional image measurement**, Tatsuki TAHARA, Atsushi KANEKO, Takamasa KOYAMA, Kyoto Institute of Technology, Yasuhiro AWATSUJI, PRESTO, Japan Science and Technology Agency, Kenzo NISHIO, Shogo URA, Kyoto Institute of Technology, Toshihiro KUBOTA, Kubota Holography Lab. Co., Osamu MATOBA, Kobe University (Japan)

- *A study on matching between the taking lens and the image sensor of a digital camera**, Hideaki Yoshida, Olympus Imaging corp. (Japan)

15:05-16:15

COLOR SCIENCE

Session Chairs: Po-Chieh Hung, Konica Minolta Technology Center, Inc., and Naoya Katoh, Sony Corporation

- *Color Reproduction Using Multi-Primaries/Colorants (Invited)**, Yeong-Ho Ha, Chang-Hwan Son, In-Su Jang, Kyungpook National University (S.Korea)

- *Equivalence evaluation of pseudo ultra wide gamut display**, Toru KITANO, Shinshu University, Masashi KANAI, Hideaki KASAHARA, Kenji FUKASAWA, SEIKO EPSON Corp., Takao ABE, Shinshu University (Japan)

***Image Color Mapping in Orthonormal Luminance/Chrominance Fundamental Color Space**, Hiroaki Kotera, Kotera Imaging Laboratory (Japan)

TRACK III

13:35-16:15

ORGANIC & PHOTOCONDUCTIVE MATERIALS

Session Chairs: Hiroyoshi NAITO, Osaka Prefecture University and
Norio NAGAYAMA, Ricoh Company, Ltd.

***Ultraviolet Light Photofatigue of Organic Photoreceptors (Invited)**, David S. Weiss, Eastman Kodak Company (USA)

***Multicolor Organic EL Device Using a Polypeptide As a Hole-Transport Material**, HIEJIMA Toshihiro, UEDA, Kenji, UCHIDA Takayuki, Tokyo Polytechnic University (Japan)

***Doping Effect on the Energy Distribution of Localized States and Carrier Transport in Order Controlled Material Using Liquid Crystalline Phase**, Akira Ohno, Tsukasa Nakamura, Jun-ichi Hanna, Tokyo Institute of Technology and JST-CREST (Japan)

***TOF and TFT mobilities in polycrystalline thin films of liquid crystalline materials**, Hiroaki Iino, Jun-ichi Hanna, Tokyo Institute of Technology and JST-CREST (Japan)

***Electronic Structure of Interface between Liquid-Crystalline Organic Semiconductors and Electrodes Based on I-V Characteristics and Photoelectron Spectroscopy**, Tadaaki Tani, Tokyo Institute of Technology, Tohru Toda, Jun-ichi Hanna, Imaging Sci. Eng. Lab, Tokyo Institute of Technology (Japan)

***Polymorph and electronic structure of methyl orange**, Kazuyuki Sato, Hiroki Shibata, Jin Mizuguchi, Yokohama National University (Japan)

***Crystal and electronic structure of methyl orange (Interactive)**, Hiroki Shibata, Kazuyuki Sato, Jin Mizuguchi, Yokohama National University (Japan)

***Device characteristics in polymer field-effect transistors with poly (methyl silsesquioxane) gate insulators (Interactive)**, Kenji Tomatsu¹, Takashi Hamada^{1,2}, Saori Yamazaki^{1,2,3}, Takashi Nagase^{1,2}, Takashi Kobayashi^{1,2}, Shuichi Murakami^{2,4}, Kimihiro Matsukawa^{2,5}, Hiroyoshi Naito^{1,2}, ¹Osaka Prefecture University, ²Japan Science and Technology Agency, ³Citizen Technology Center, ⁴Technology Research Institute of Osaka Prefecture, ⁵Osaka Municipal Technical Research Institute (Japan)

Thursday June 26, 2008

9:30-10:15

PLENARY SESSION

Session Chair: Koji HIRAKURA,
Ricoh Company, Ltd.

***Digital Printing Technology Trends of drupa 2008 (Keynote)**

Masahiko SAKURAZAWA, Dainippon Screen MFG Co., Ltd. (Japan)

10:20-12:00

REGIONAL REPORT

Session Chair: Takashi KITAMURA, Chiba University

***New Imaging Technologies Powered by Digital Techniques**,

E.G. Hanson, President of IS&T, Hewlett-Packard Company (USA)

***Imaging and Related Industries in China**,

Jia-Ling Pu, Beijing Institute of Graphic Communication (China)

***Three-dimensional image technology in Korea**, Eunkyong Kim, Yonsei University (Korea)

***Applications of Nanotechnology in Imaging Process at Saigon Hi-Tech Park Research Laboratory**,

Khe Nguyen, Saigon Hi-Tech Park Research Lab. (Vietnam)

TRACK I-1

13:00-14:30

DIRECT MARKING & NOVEL PRINTING

Session Chairs: Setsuji TATSUMI, Fuji Film Corporation and
Hirotoshi TERAU, Alps Electric Co., Ltd.

***ZINK Imaging - Printing with "Zero Ink" (Invited)**, Stephen R. Herchen, William T. Vetterling, John L. Marshall, ZINK Imaging, Inc. (USA)

***Simulation on relationship between pixel density and toner size in the magnetic printer (2)**, Norio Kokaji, Meisei University (Japan)

***Printing system for industrial use**, TETSUYA MATSUYAMA, Dai Nippon Printing Co., Ltd., Toshiyuki Watanabe, Tokyo University of Agriculture and Technology (Japan)

***Development of a thermal print head by 3D thermal analysis**, Hirotoshi Terao, Hisashi Hoshino, Alps Electric Co., Ltd. (Japan)

TRACK I-2

13:00-14:30

ELECTROPHOTOGRAPHY PROCESS (1)

Session Chairs: Akiteru FUJII, Mitsubishi Chemical Corporation and Yoshihiro HATTORI, Konica Minolta Business Technologies, Inc.

***High Speed Duplex Printing System - it's working principle and recent technical achievement (Invited)**, Hiroshi NORO, Océ-Japan Corporation (Japan)

***Ricoh SD-development technology for image quality**, Kohichi Utsunomiya, Yuuki Oshikawa, Yutaka Takahashi, Satoru Yoshida, Emi Kita, Kiyonori Tsuda, Junichi Terai, Shinji Tamaki, Kohichi Katoh, Tomoji Ishikawa, Ricoh Company, Ltd. (Japan)

***Analysis of Developers Mixing Behavior in Two-component Electrophotographic System by Parallel Discrete Element Method**, Hiroshi Mio, Keihanna Interaction Plaza Inc., Ryohei Higuchi, Wakana Ishimaru, Atsuko Shimosaka, Yoshiyuki Shirakawa, Jusuke Hidaka, Doshisha University (Japan)

***Transferred image simulation using coupling 2-D and 3-D models**, Shinji Aoki, Ichiro Maeda, Masaki Sukesako, Masami Kadonaga, Ricoh Company, Ltd. (Japan)

14:45-15:35

ELECTROPHOTOGRAPHY PROCESS (1)
Interactive Short Presentations

Session Chairs: Takeshi MENJO, Canon Inc. and Akiteru FUJII, Mitsubishi Chemical Corporation

***Initial Behavior of Corona Discharge Characteristics (Interactive)**, Song JIANG, Jing-chen HUANG, Yasushi HOSHINO, Nippon Institute of Technology (Japan)

***Stability Improvement of Electrical Conductivity Type Charging Rollers in Varying Environmental Conditions (Interactive)**, Shinya Kobayashi, Yasuo Takuma, Hiroyuki Mabuchi, Ricoh Printing Systems, LTD. (Japan)

***Charging Characteristics of Fatigued Photoconductors (Interactive)**, Zbig Tokarski, Yong-Jin Ahn, Samsung Electronics (S.Korea)

***Triboelectrification Behavior of Polystyrene Films Doped with Various Carboxylic Acids (Interactive)**, Yudai Teramoto, Katsuyoshi Hoshino, Chiba University (Japan)

***Toner Charge Distribution Variation on Toner Mixing Conditions (Interactive)**, Disna Jayampathi Karunanayake, Li Chun-Wei, Osamu Hoshino, Tetsuya Onoda, Yasushi Hoshino, Nippon Institute of Technology (Japan)

***Application of focused ion beam for imaging**

internal microstructure of electrophotographic materials (Interactive), Sowon Sheen, JunCheol Bae, Masahiko Itaya, Samsung Electronics Co., LTD. (S.Korea)

***Numerical analysis about influence of the electric charge positions in a toner particle (Interactive)**, Kazuteru Kurihara, Takuya Goto, Satoru Furuya, Kentaro Hasegawa, Chihiro Komori, Oki Data Co. (Japan)

***Dynamics of Toner Particles in Magnetic Single-Component Development System of Electrophotography (Interactive)**, Takatoshi Miwa, Masatomo Teshima, Tomohiko Sugiyama, Yuka Ochiai, Hiroyuki Kawamoto, Waseda University (Japan)

***Software Development of Magnetic Brush Simulator in Two-component Electrophotographic System (Interactive)**, Hiroshi Mio, Keihanna Interaction Plaza Inc., Junpei Kawamura, Atsuko Shimosaka, Yoshiyuki Shirakawa, Jusuke Hidaka, Doshisha University (Japan)

***Analysis of Structures and Gonio-spectrum Images in Electrophotography Prints (Interactive)**, Jun Hirabayashi, Megumi Ito, CANON INC. (Japan)

ISJ 50th Anniversary Special Talk

Chair: Takashi KITAMURA, Chiba University

14:45-15:15

"EARTH"

Toshibumi SAKATA, Tokai University Research and Information Center, Advanced Earth Science and Technology Organization

15:45-17:00

Joint POSTER Session 1

TRACK I, II, III

TRACK II

13:00-14:10

APPLICATION OF IMAGING

Session Chairs: Masao MATSUMOTO, Osaka University and Masahiko OGINO, Mizukami Insatsu Co., Ltd.

***Development of Laparoscopic Surgery Training and Support Systems Using VR**

Technology (Invited), Yoichi MIYAKE, Chiba University (Japan)

***Stroke Tissue Outcome Prediction Using A Spatially-Correlated Model**, Viet Ha Nguyen, A.N.Lab Corporation (Japan), Homer H. Pien, Nina Menezes, Chloe J. Lopez, Christopher Melinosky, Ona Wu, A. Gregory Sorensen, Massachusetts General Hospital, Gene Cooperman, Northeastern University, Hakan Ay, Walter J. Koroshetz, Massachusetts General Hospital (USA), Yawu Liu, Juho Nuutinen, Hannu J. Aronen, Jari Karonen, Helsinki University Central Hospital (Finland)

***Observation of latent image specks in silver salt photography created by high energetic heavy ions for the purpose of precise estimation of local deposit energy**, Hirotaka Kubota, Kimio Niwa, Nagoya University, Toshiyuki Toshito, High Energy Accelerator Research Organization (KEK), Ken'ichi Kuge, Chiba University, Nakahiro Yasuda, National Institute of Radiological Sciences (NIRS), Mitsunori Natsume, Noriyuki Saito, Nagoya University (Japan)

14:25-15:35

**IMAGE PROCESSING,
IMAGE RECOGNITION and
IMAGE EVALUATION (1)**

and

**Track II INTERACTIVE SHORT
PRESENTATIONS**

Session Chair: Kenji TOYODA, Eastman Kodak Company

***A Histogram-Based Method for Identifying Uniformly Colored Regions in a Document Image**, A. Mufit Ferman, Sharp Laboratories of America, Inc. (USA)

***Combined approach for Pictorial detection in Document Images**, Toyohisa Matsuda, SHARP CORPORATION, Richard J. Campbell, Lawrence S. Chen, Sharp Laboratories of America, Inc. (USA)

***Improved Measurement of LCD Grayscale Linearity by Controlling Luminance (Interactive)**, Kwang Yeol Park, Hyung Ju Park, Dong Hwan Har, Chung-Ang University (S.Korea)

***Measurements and Simplification of Gonio-spectrum reflectance in various paint samples (Interactive)**, Jun Hirabayashi, Megumi Ito, CANON INC. (Japan)

***Overview on rehousing Daguerreotype (Interactive)**, Yoko Shiraiwa (Japan)

***JEITA standard CP-3901 "Digital Color Photo Print Stability Evaluation" (Interactive)**, Shinichi Kato, Hiroko Hayashi, Yoshiro Udagawa, Kaoru Takada, JEITA/Seiko Epson Corporation/Canon Inc. (Japan)

***Color correction of pathological images by adaptive Wiener estimation (Interactive)**, Tokiya

Abe, Hideaki Haneishi, Chiba University, Pinky A. Bautista, Yuri Murakami, Masahiro Yamaguchi, Nagaaki Ohyama, Tokyo Institute of Technology (Japan), Yukako Yagi, Harvard Medical School

TRACK III

13:00-14:05

REWITABLE & ECOLOGY

Session Chairs: Yoshihiko HOTTA,
Ricoh Company Ltd. and
Shuichi MAEDA, Oji Paper Co., Ltd.

"Rewritable Hybrid Media" The technology & application of thermal rewritable display media with RFID (Invited), Hiroshi Uenishi, RICOH COMPANY, Ltd. (Japan)

***Fixation of powdered TiO₂ onto metal substrates by electrophoretic deposition and its use for complete decomposition of volatile organic compounds**, Jin Mizuguchi, Toru Ebara, Shigeru Suzuki, Yokohama National University (Japan)

***Fixation of powdered TiO₂ onto Ni-Cr heat elements by electrophoretic deposition and its use for complete decomposition of volatile organic compounds (Interactive)**, Atsushi Maki, Ryo Iwamoto, Toru Ebara, Jin Mizuguchi, Yokohama National University (Japan)

***Dye sensitized photocapacitor : Improvement of photorechargeable properties by using RuO₂/activecarbon composite as the storage material (Interactive)**, Kenjiro Teshima, Peccell Technologies, Inc., Jun Suzuki, Naoki Kawakami, Toin university of Yokohama, Tsutomu Miyasaka, Toin university of Yokohama and Peccell Technologies, Inc. (Japan)

***Laser Recording on Thermal Rewritable Media (2) Analysis of Thermal Distribution Calculated by Simulation in Various Intensity Distribution of Laser Beam (Interactive)**, Tomomi Ishimi, Shinya Kawahara, Toshiaki Asai, Yoshihiko Hotta, RICOH COMPANY LTD. (Japan)

14:20-15:30

3D & SECURITY IMAGING

Session Chairs: Kazutoshi YANAKA, Kanagawa Institute of Technology and
Yasushi HOSHINO, Nippon Institute of Technology

***Novel Lippmann Holograms and Computer Generated Holograms for Security Applications (Invited)**, Kenji Ueda, Masachika Watanabe, Dai Nippon Printing Co., Ltd. (Japan)

***Reversible thermoresponsive on-off recording of fluorescence and long lived room temperature phosphorescence in organic materials/Next-generation advanced materials for security technology**, Shuzo Hirata, Toshiyuki

Watanabe, Tokyo University of Agriculture and Technology (Japan)

***Invisible inks using a fluorescent pigment for ink jet application** (*Interactive*), Juntira

Komasatitaya, King Mongkut's University of Technology (Thailand)

***Research and Application of 3D Map Symbol** (*Interactive*), Chen Guangxue, South China

University of Technology, Wei Yongjun, Hou Suyuan, Ji Guojie, Xi'an Research Institute of Surveying and Mapping. (China)

***Creation of 3D moire using full color printer and fly's eye lens** (*Interactive*), Kazuhisa Yanaka, Kanagawa Institute of Technology (Japan)

***Experimental Study of Exoskeleton type Haptic Display** (*Interactive*), Junji Sone, R. Inoue, S. Tsuyuki, K. Ishikawa, K. Yamada, I. Kaneko, Tokyo Polytechnic University, K. Fujita, M. Sato, Tokyo University of Agriculture and Technology (Japan)

June 26th 11:00-17:00
June 27th 10:00-16:00

EXHIBITION

June 26th 17:10-19:00

RECEPTION

Friday June 27, 2008

9:30-10:15

PLENARY SESSION

Session Chair: Masaaki YOKOYAMA,
Center for Advanced Science and Innovation,
Osaka University

***50 Years of Toner Adhesion Control in Electrophotography (Keynote)**,
Lawrence Schein, Independent Consultant (USA)

TRACK I-1

10:20-11:50

ELECTROPHOTOGRAPHY MATERIAL (1)

Session Chairs: Andronique IOANNIDIS, Xerox Corporation and Tatsuya TADA, Canon Inc.

***High Resolution Electrophotography: Effects of Surface Energy and Surface Charge in Micronization, Mixing, and Charge Control of Micro-Toner for Image Development (Invited)**, Malay Mazumder, University of Arkansas (USA), Yasushi Hoshino, Nippon Institute of Technology (Japan)

***Development of the Dust Particle Analyzer (Invited)**, Charles R. Buhler, NASA Kennedy Space Center, M. K. Mazumder, University of Arkansas, J. S. Clements, Appalachian State University, P. K. Srirama, University of California, Albert Chen, Oklahoma Baptist University (USA)

***Study on charging mechanism of Toner: DC Bias Effect on the charge-relaxation process**, Tatsushi Hasegawa, Nobuaki Watanabe, Oki Electric Industry Co., Ltd, Chihiro Komori, Oki Data Corporation (Japan)

***Development of the 2nd generation Full-Color PxP Toner** (*Interactive*), Masahide Yamada, Toshiki Nanya, Naohito Shimota, Osamu Uchinokura, Akinori Saitoh, Junichi Awamura, RICOH COMPANY, LTD. (Japan)

***Synthesis of Water Soluble Phenolic Resin and Its Imaging Performance** (*Interactive*), Zhong-Xiao, An Li, Pu Jia-Ling, Beijing Institute of Graphic Communication (China)

13:00-14:05

ELECTROPHOTOGRAPHY MATERIAL (2)

Session Chairs: David S. WEISS, Eastman Kodak Company and Masaaki YOKOYAMA,
Center for Advanced Science and Innovation,
Osaka University

***Polyester Synthesis by Low-temperature with Catalyzed Surfactant Type Bronsted Acid and the Application to Toner Binder Resin,** Hirotaka MATSUOKA, Yuki SASAKI, Hideo MAEHATA, Satoshi HIRAOKA, Fumiaki MERA, Yasuo MATSUMURA, Fuji Xerox Co.,Ltd. (Japan)

***Charge Recombination in Photo-induced Discharge of Photoreceptors for Digital Electrophotography (I) Dual-layer Photoreceptors,** Takahito Miyamoto, Mitsuru Narita, Takashi Obinata, Yutaka Ikeda, Toshiki Obinata, Fuji Electric Device Technology Co. Ltd. (Japan), Inan Chen, Consultant (USA)

***Charge Recombination in Photo-induced Discharge of Photoreceptors for Digital Electrophotography (II) Single-layer (Interactive),** Yasushi Tanaka, Mitsuru Narita, Yoichi Nakamura, Keiichi Morita, Fuji Electric Device Technology Co. Ltd. (Japan), Inan Chen, Consultant (USA)

***Crystal structure of an azo Cr-complex used as a charge control agent and its electrical properties (Interactive),** Shinpei Ito, Yohei Sato, Jin Mizuguchi, Yokohama National University (Japan)

***Crystal structure of a salicylic acid derivative Al-complex used as a charge control agent and its electrical properties (Interactive),**

Yuya Kamei, Jin Mizuguchi, Yokohama National University (Japan)

***Thermal stability of tetra-alkyl ammonium salts used charge-control agents as viewed from their crystal structures (Interactive),** Kazuya Uta, Yohei Sato, Jin Mizuguchi, Yokohama National University (Japan)

***The role of cations in thermal stability of azo Fe-complexes used as charge-control agents from the standpoint of the crystal structure (Interactive),** Yohei Sato, Kazuya Uta, Jin Mizuguchi, Yokohama National University (Japan)

15:35-16:45

ELECTROPHOTOGRAPHY PROCESS (2)

Session Chairs: Yoshihiro HATTORI, Konica Minolta Business Technologies, Inc. and Yukio NAGASE, Canon Inc.

***Aging of Donor Rolls for Single-Component Development in Electrophotography (Invited),** Inan Chen, Ming-Kai Tse, Quality Engineering Associates (QEA) Inc. (USA)

***Electrostatic Force on a Toner Particle with Nonuniform Charge Distribution,** Boonchai TECHAUMNAT, University of Tokyo, and Chulalongkorn University, Masami Kadonaga, Ricoh Company, Ltd., Masao Washizu, Tadasu Takuma, Tokyo Denki University (Japan)

***Optimum Heater designing for Low Energy Consumption Fuser,** Yasumasa Otsuka, Toshihiko Ochiai, Tetsuya Sano, Yuuki Nishizawa, Canon INC. (Japan)

14:15-15:30

Joint POSTER Session 2

TRACK I, II, III

TRACK I-2

15:35-16:35

INK JET (2)

Session Chairs: Shin-ichi OKADA, DIC Corporation and Masahiko FUJII, Fuji XEROX Co., Ltd.

***Improvement of jetting reliability against ink viscosity increase by installation of an ink circulation path,** Susumu Hirakata, Masakazu Okuda, Hirofumi Nakamura, Toshinori Ishiyama, Shinji Seto, Naoki Morita, Fuji Xerox Co., Ltd. (Japan)

***Development of a Cationic UV Curable Inkjet Ink,** Atsushi Nakajima, Atsushi Tomotake, Konica Minolta IJ Technologies, Inc. (Japan)

***Ink Jet pigment development based on Triple S concept,** Daisuke Harada, Eiichi Shimizu, Kohei Ohtsuka, Clariant Japan K.K (Japan), Hans-Tobias Macholdt, Clariant Produkte GmbH (Deutschland)

TRACK II

10:20-11:50

IMAGE PROCESSING, IMAGE RECOGNITION and IMAGE EVALUATION (2)

Session Chairs: Hiroshi YAMAGUCHI, FUJIFILM Corporation and Horoyuki KOBAYASHI, Chiba University

***Face Detection And Its Applications To Digital Photographic Systems (Invited),** Tao Chen, FUJIFILM Corporation (Japan)

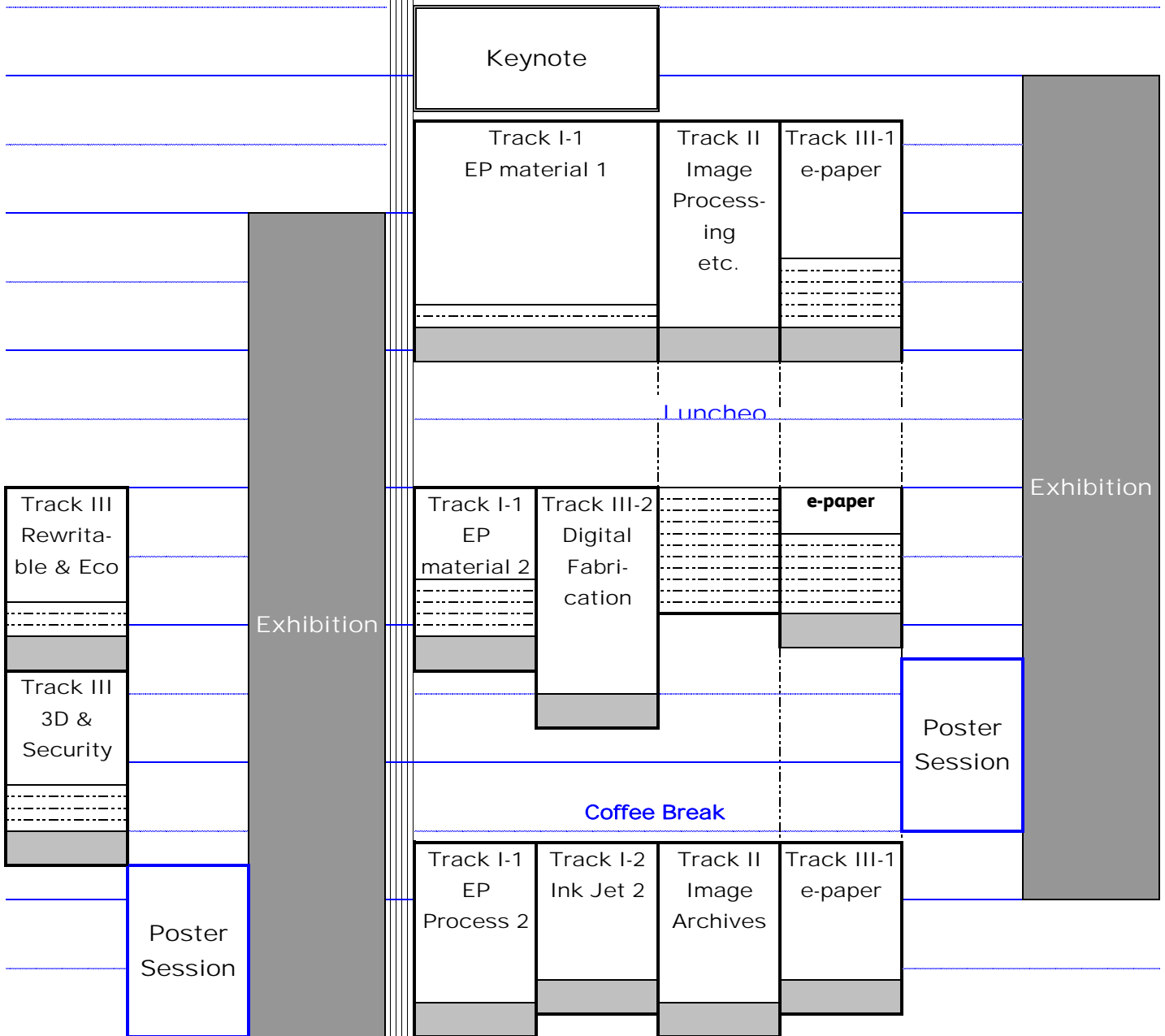
2008/6/25

2008/6/26

	FUJI 3F	HODAKA 5F	DAISETSU 5F	FUJI 3F	HODAKA 5F
9					
10	Opening Remarks			Keynote	
	Keynote				
11	Topical Session "Digital Photo Print"			Regional Report	
12					
	Luncheon			Luncheon	
13	Luncheon				
14	Track I Ink Jet 1	Track II Image Capture & Camera System	Track III Organic Material	Track I-1 Direct marking & Novel Printing	Track I-2 EP Process 1
					Track II Appication of Imaging
15	Coffee Break			Special Talk	Track II Image Processing
16	Track I On demand & Industrial Printing	Track II Color Science	Track III Organic Material	Coffee Break	
17					
18		SPSTJ General Meeting & Awarding Ceremony	ISJ General Meeting & Awarding Ceremony	Reception	
19					

2008/6/27

DAISETSU 5F	ASO 6F	IBUKI 6F	FUJI 3F	HODAKA 5F	DAISETSU 5F	ASO 6F	IBUKI 6F
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- Keynote, Regional, Topical
- Regular
- Interactive
- Author's Interview
- Poster
- Exhibition

***Generating Perceived Color Image with Wavelet Transform**, Yoshiki NAKAMURA, Tokyo Institute of Technology (Japan)

***Optical dot gain simulation of inkjet image using MTF of paper**, Masayuki Ukishima, Hitomi Kaneko, Toshiya Nakaguchi, Norimichi Tsumura, Chiba University (Japan), Markku Hauta-Kasari, Jussi Parkkinen, University of Joensuu (Finland), Yoichi Miyake, Chiba University (Japan)

***The Research into the Morie Strip in AM Screening**, Chen Guangxue, South China University of Technology, Zhang De, Xi'an Research Institute of Surveying and Mapping (China)

13:00-13:55

IMAGE PROCESSING, IMAGE RECOGNITION and IMAGE EVALUATION (3)

Session Chairs: Hiroshi YAMAGUCHI, Fuji Film Corporation and
Hiroyuki KOBAYASHI, Chiba University

***An Image Fusion Technique for High Dynamic Range Image Acquisition** (*Interactive*), Takanori Jinno, Masahiro Okuda, The University of Kitakyushu (Japan)

***Perception of contour between different halftone algorithms** (*Interactive*), Pichit Kajondecha, Hongmei Cheng, Yasushi Hoshino, Nippon Institute of Technology (Japan)

***Dependence analysis of the paper MTF on the geometric condition** (*Interactive*), Masayuki Ukishima, Toshiya Nakaguchi, Norimichi Tsumura, Chiba University (Japan), Markku Hauta-Kasari, Jussi Parkkinen, University of Joensuu, (Finland), Yoichi Miyake, Chiba University, (Japan)

***Spot Color Recognition and Extraction of Color Map Image** (*Interactive*), Chen Guangxue, South China University of Technology, Zhang De, Surveying and Mapping Institute, Xi'an Research Institute of Surveying and Mapping (China)

"Memory Texture" and Its Relationship with Object's Texture (*Interactive*), Naoya Takesue, Naokazu Aoki, Hiroyuki Kobayashi, Chiba University (Japan)

***Plane Detection in Piecewise Image Pair through a Coarse-to-Fine Strategy integrating Texture Information** (*Interactive*), Qiang He, Mississippi Valley State University, Chee-Hung Henry Chu, University of Louisiana (USA)

***Dependence of optimization condition of edge enhancement on observation distances** (*Interactive*), CHENG HongMei, Pichit kajondecha, HOSHINO Yasushi, Nippon Institute of Technology (Japan)

***How photographic image quality affects the impression created by facial photographs** (*Interactive*), Shigeru Sato, Kyushu Sangyo University,

Hiroyuki Komori, Hiroyuki Kobayashi, Chiba University (Japan)

***The Traffic Signal Light Detection Using Image Processing** (*Interactive*), Pranchalee Rattanasakornchai, Panuschai Sribumrung, King Mongkut's University of Technology (Thailand), Yasushi Hoshino, Nippon Institute of Technology (Japan)

***The Effect of 1D Noise on Sharpness Perception of Grating Pattern** (*Interactive*), Takehito Kurihara, Tomoaki Tanaka, Naokazu Aoki, Hiroyuki Kobayashi, Chiba University (Japan)

***Image Quality Improvement of a Moving Picture Sequence by Motion JPEG** (*Interactive*), Tsutomu Shohdohji, Nippon Institute of Technology, Masao Shinohara, Metro Co., Ltd., Fumihiko Yano, J. F. Oberlin University, Yoshiaki Toyoda, Aoyama Gakuin University (Japan)

15:35-16:45

IMAGE ARCHIVES

Session Chairs: Norihide TAKAHASHI, Nihon University and Junichi KOHNO, Konica Minolta Technology Center, Inc.

***Image Permanence Test Methods for Digital Photo Printing Materials and the Latest Trends Toward Standardization** (*Invited*), Yukihiko Kanazawa, FUJIFILM Corporation (Japan)

***The Influence of Relative Humidity and Test Sample Temperature in the Accelerated Light Fading of Inkjet Prints**, Henry Wilhelm, Kabenla Armah, Dmitriy Shklyarov, Barbara Stahl, Wilhelm Imaging Research, Inc. (USA)

***ISO standardization activities in test methods of image permanence for photographic prints**, Yoshihiko Shibahara, Fujifilm Co. (Japan)

TRACK III-1

10:20-11:50

ELECTRONIC PAPER & FLEXIBLE DISPLAY (1)

Session Chairs: Tatsumi TAKAHASHI, Dai Nippon Printing Co., Ltd. and
Hiroyuki ARISAWA, Fuji XEROX Co., Ltd.

***Electronics Paper Display -Current Technology & Market Development Status and its Future direction** (*Invited*), Ryosuke Kuwada, E Ink Corporation (USA)

Quick-Response Liquid-Powder Display (*Invited*), Yoshitomo Masuda, Ryo Sakurai, Norio Nihei, Itsuo Tanuma, Bridgestone Corporation, Reiji Hattori, Kyushu University (Japan)

***Spectro electrochemical properties of phthalate derivative-based Electrochromic cell** (*Interactive*), Yuichi Watanabe, Takeshi Nagashima, Norihisa Kobayashi, Chiba University (Japan)

***Improvement of electrochromic properties of bismuth based cell with mediator (*Interactive*)**, Toshiki KON, Mitsuharu KIMURA, Norihisa KOBAYASHI, Chiba University (Japan)

***An Application of Tungsten Oxide Nanoparticles to Preparation of Electrochromic Films (*Interactive*)**, Fumiyuki SHIBA, Natsuki MORISHITA, Masakazu YOKOYAMA, Yusuke OKAWA, Chiba University (Japan)

***Electrochromic Properties of Dibenzylviologen in the Presence of Various Mediators (*Interactive*)**, Taiki Takei, Yuya Yamada, Katsuyoshi Hoshino, Chiba University (Japan)

***Effects of shape and size of ChLC droplets on reflection properties of close-packed monolayer PDLC device (*Interactive*)**, Taiju Gan, Haruo Harada, Makoto Gomyo, Yasunori Okano, Chisato Urano, Hiroshi Arisawa, Fuji Xerox Co., Ltd., (Japan)

***Color Conversion Panels Based on Organic Dye-Dispersed Inorganic Electroluminescent Devices (*Interactive*)**, Takayuki UCHIDA, Satoshi Kawamura, Makoto Kobayashi, Toshifumi Satoh, Tokyo Polytechnic University (Japan)

13:00-13:55

ELECTRONIC PAPER & FLEXIBLE DISPLAY (2)

Session Chairs: Kaoru SUZUKI, Hitachi, Ltd. and Takayuki SANO, TOMOEGAWA Co., Ltd.

***Novel Color Electrophoresis Particles Based on Movement of Particles Using Two Driving Electrodes**, Masahiro Masuzawa, Masahiro Yanagisawa, Yoshihisa Najoh, Ricoh Co, LTD., Takashi Kitamura, Chiba University (Japan)

***Display Characteristic of Color Electrophoretic Image Display Based on Movement of Particles Using Two Driving Electrodes (*Interactive*)**, Hiroshi Endo, Chiba University, Masahiro Masuzawa, Ricoh Company, Ltd, Sakiko Nakamura, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***Continuous Tone Image in Electrophoretic Display (*Interactive*)**, Yoshitaku Yoshimatsu, Nakamura Sakiko, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***Study on Charging Mechanism of Polymer Coated Electrophoretic Particles--- Part I --- For monochromic EPID system (*Interactive*)**, Ming Wang, Nakamura Sakiko, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***Low driving voltage to move the toner particle in Toner Display (*Interactive*)**, Ryohei Namikawa, Nakamura Sakiko, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***The triboelectrical charging mechanism of toner in Toner Display (*Interactive*)**, Satoshi

Suzumi, Nakamura Sakiko, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***Control of Toner Movement in Color Toner Display using three kinds of particles (*Interactive*)**, Masato Ohshima, Sakiko Nakamura, Nobukazu Miyagawa, Takashi Kitamura, Chiba University (Japan)

***A document reading system with electronic paper display (*Interactive*)**, Norihisa Fujii, Hiroaki Suzuki, BROTHER INDUSTRIES LTD., Makoto Omodani, Tokay University (Japan)

15:35-16:35

ELECTRONIC PAPER & FLEXIBLE DISPLAY (3)

Session Chairs: Norihisa KOBAYASHI, Chiba University and Akira SUZUKI, Ricoh Company, Ltd.

***Comparison of Performances between LC Display / Electronic Paper / Paper at Proofreading Task on Multi-page Documents**, Makoto Omodani, Junko Imai, Tokai University (Japan)

***Gelatin-based microcapsules with compact wall prepared by complex coacervation**, Weigang Li, Gang Wu, Mang Wang, Hongzheng Chen, Department of Polymer Science & Engineering, Zhejiang University (China)

***Measurement of Electrostatic Property and Material Design of Electronic Liquid Powder® Used in Novel Type Bistable Reflective Display (QR-LPD®)**, Norihiko Kaga, Hiroyuki Anzai, Koji Takagi, Bridgestone corporation (Japan)

TRACK III-2

13:00-14:30

DIGITAL FABRICATION

Session Chairs: Shinri SAKAI, Seiko EPSON Corporation and Shin-ichi NISHI, Konica Minolta IJ Technologies, Inc.

***Ink-Jet Technology for Manufacturing and Instrument Application (Invited)**, David Wallace, Patrick Cooley, Bogdan Antohe, Don Hayes, Ting Chen, MicroFab Technologies, Inc. (USA)

***Skin-like large-area electronics using digital fabrication technology (Invited)**, Takao Someya, The University of Tokyo (Japan)

Inkjet 3D biofabrication for 3D tissue engineering (Invited), Makoto Nakamura^{1,2}, Yuichi Nishiyama¹, Chizuka Henmi¹, Shintaroh Iwanaga¹, Kumiko Yamaguchi^{1,2}, Keiichi Akita^{1,2}, Koki Takiura³, ¹Kanagawa Academy of Science and Technology, ²Tokyo Medical and Dental University, ³Yamagata University (Japan)

June 26th 11:00-17:00
June 27th 10:00-16:00

EXHIBITION

Exhibitor:

A: **Microfab Technologies Inc.**
<http://www.microfab.com/>

B: **PHOTRON Limited**
<http://www.photron.co.jp/>

C: **Systemex Corporation**
<http://www.systemex.co.jp/>

D: **Mitsuwa Frontech Corp. Corp.**
<http://www.mitsuwa.co.jp/>

E: **Yamamoto Trading Co., Ltd.**
<http://www.ytc-j.co.jp/>

F: **Brother Industries, Ltd.**
<http://www.brother.co.jp/>

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LOCATION OF ARCADIA ICHIGAYA

After arriving at the New Tokyo International Airport in Narita (Narita Airport), there is a choice of transport facilities to Arcadia Ichigaya.

◆ Airport Limousine Bus

The Airport Limousine Bus service is available once or twice an hour to the Hotel New Otani and the Hotel Grand Palace. The trip takes approximately 1 hour and 30 or 40 minutes, depending on traffic conditions and a further 10 minutes to Arcadia Ichigaya by taxi.

◆ Narita Express Train

The Narita Express Train leaves Narita Airport every half hour for JR Tokyo station and other destinations. Please change trains at Tokyo station to the JR Chuo line (red train) bound for Toyoda or Hachioji. Since the red train is rapid and does not stop at Ichigaya station, change trains at Ochanomizu station to the JR Sobu line (yellow train) and get off the train at Ichigaya station.

Arcadia Ichigaya is located within 3 minutes walk of Ichigaya Station. <http://www.arcadia-jp.org/> (Japanese only).

For more information on access to downtown Tokyo from Narita Airport, visit the web site of the New Tokyo International Airport at http://www.narita-airport.or.jp/airport_e/index.html.

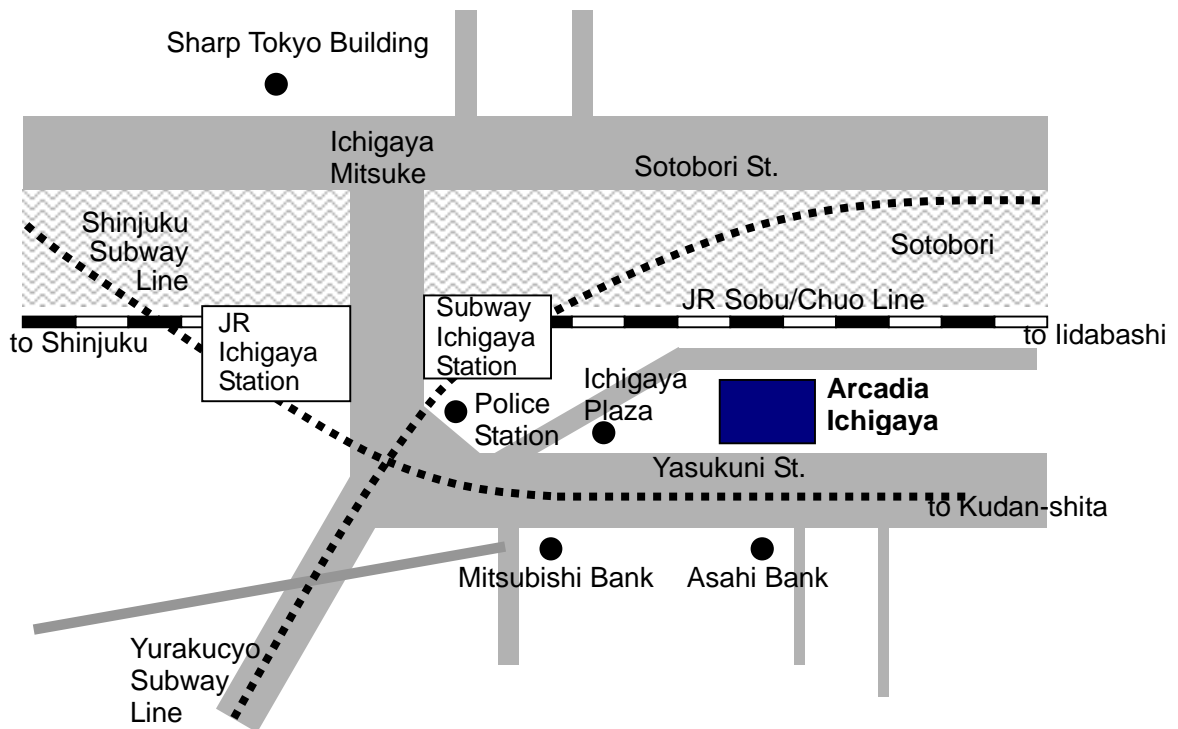
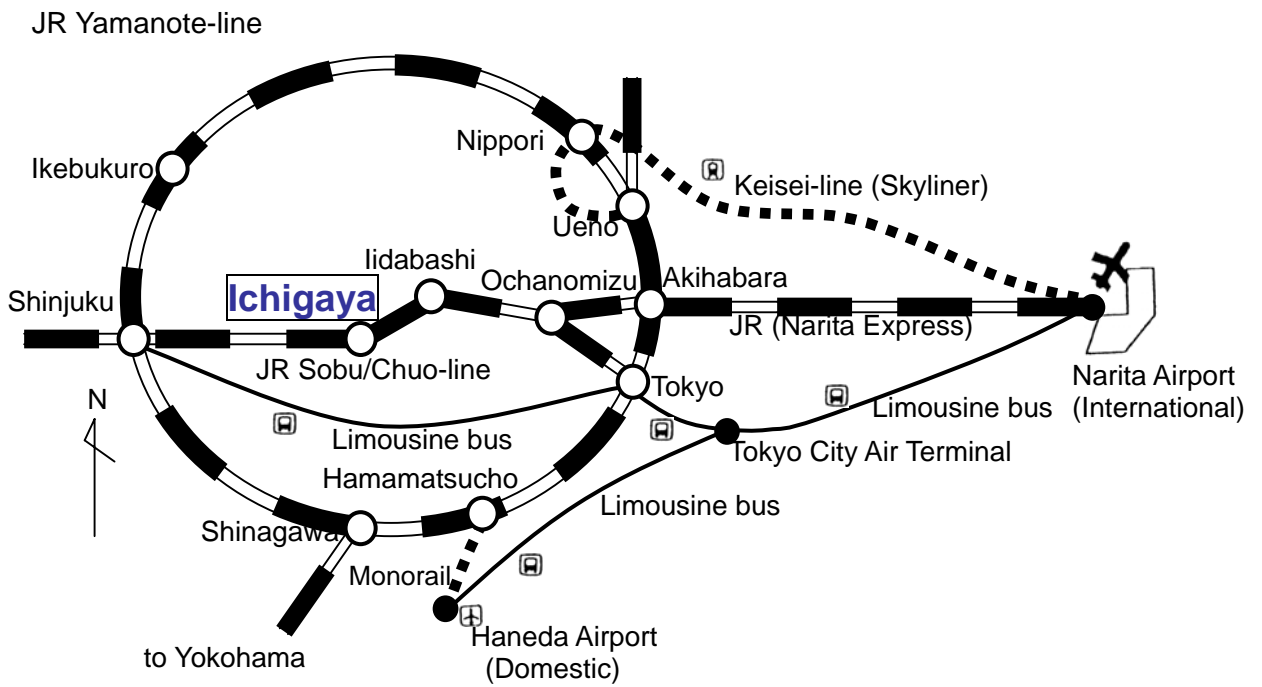
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TRIAL OF ELECTRONIC PAPER PROCEEDING

A field test of Electronic Paper Proceeding will be performed during PPIC '08. This test is expected as the world first trial of Electronic Paper for an application to conference proceedings. Twenty sets of terminals (Electrophoretic display: A5 size) will be provided as electronic readers during the conference. Although these reader terminals may be available for limited attendees because of the limited number of devices, every attendee may expect to find some of attendees are using the Electronic Paper Proceeding.

The details will be uploaded onto the PPIC'08 Website.



Access at 2 minutes on foot by Ichigaya Station where four lines ride putting JR and subway.

- *JR Chuo/Sobu Line (Local Train)
- *Subway Yurakucho Line and Nanboku Line [A1-1 exit]
- *Subway Shinjuku Line [A1-1 A4 exit]

Conference Registration Form for Overseas Attendees

PPIC'08: June 25 to 27, 2008 Arcadia-Ichigaya, Tokyo, Japan

Fax or Mail this form to the following address:

PPIC'08 Office, Att. ISJ, c/o Tokyo Polytechnic University, 2-9-5 Honcho, Nakano-ku, Tokyo
164-8678 JAPAN **Fax +81-3-3372-4414** (email: event@isj-imaging.org)

Name:(Prof./Dr./Mr./Ms.) _____

Title/Position: _____

Company/Affiliation: _____

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City: _____ ZIP: _____ Country: _____

Telephone: (+____) _____ Fax: (+____) _____

e-Mail: _____@_____

Circle Your Membership(s): ISJ, SPSTJ, IS&T, JSPST, KSIST, CSIST, RSESC or Non-member

Registration includes admission to all sessions, the final program/proceedings book and CD-R and reception fee. The fee for members is applied to those who belong to any of sponsoring, co-operating societies or supported societies of ISJ, SPSTJ, IS&T, JSPST, KSIST, CSIST, and RSESC.

Conference registration (check box to indicate registration fee)

	Before June 15	After June 16 and On-site
Member*	¥ 20,000 ()	¥23,000 ()
Non-member*	¥ 25,000 ()	¥28,000 ()
Student member* (ID required**)	¥ 5,000 ()	¥ 8,000 ()
Student non-member*	¥ 5,000 ()	¥8,000 ()
Extra proceeding book & CD-R	¥10,000 ()	¥10,000 ()
	Total: Japanese Yen ¥	

(* Includes Reception fee)

(** Send a copy of student ID attached with this application)

Check a Track you plan to attend most preferably (Circle one: very important.):

Tr. 1, Tr. 2, Tr. 3

Circle days you plan to attend;

Wed. Thu. Fri.

Payment method;

() Cash, () MC, () VISA, () AMEX

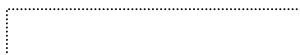
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Conference Registration Form for Japanese Domestic Attendees PPIC'08: June 25 to 27, 2008

PPIC08 Website に掲載される Registration Form(電子メール送付用:こちらを**推奨**します)を用いるか、または、この用紙をコピーして所要事項を記入し、PPIC08 事務局に郵送ないしは Fax して下さい。
送付先: 〒164-8678 東京都中野区本町 2-9-5 東京工芸大学内 日本画像学会 PPIC'08 事務局
Fax: 03-3372-4414, (Tel: 03-3373-9576, e-mail: event@isj-imaging.org)

(以下、ローマ字と漢字にて記入して下さい、 運営上必要としています)

Name (Prof./Dr./Mr./Ms.) _____

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or Non-member

登録費

参加登録費には、本大会全てのトラックのセッションへの参加費、実施プログラム/要旨集および CD-R を含みます。会員としての申し込み資格は、主催、共催、協賛学会の SPSTJ, ISJ, IS&T, JSPST, KSIST, CSIST 及び RSESC 所属会員に与えられます。事前登録による参加費割引は 2008 年 6 月 15 日迄の登録が有効です。それ以降は、会期中迄通常登録となります。

	事前登録 (6/15 迄)	通常登録 (6/16 以降)
会員(共催、協賛学会会員)	¥ 20,000 ()	¥ 23,000 ()
非会員	¥ 25,000 ()	¥ 28,000 ()
学生会員*	¥ 5,000 ()	¥ 8,000 ()
学生非会員*	¥ 5,000 ()	¥ 8,000 ()
レセプション参加費**	¥ 3,000 ()	¥ 3,000 ()
要旨集及び CD-R(追加分)	¥ 10,000 ()	¥ 10,000 ()
(所要登録費等の箇所に 印を付けて下さい)	合計: ¥ _____	

(*学生証のコピーを添付してください)

(**発表者のレセプション参加費は無料となります)

国内参加者の参加費支払いは、会場受付での当日支払いとなります。

参加登録以降のキャンセルなきようお願いいたします。

クレジットカードは手数料の関係で国外からの申し込みに限らせていただきます。

当日は、事務局受付番号記入済みの本申し込み用紙を会場受付にご提示下さい。

参加予定 (運営上大切ですので必ず丸印を記入して下さい)

主に参加を予定しているトラック(一択); Tr1, Tr2, Tr3

参加予定の曜日(複数選択可); Wed, Thu, Fri

-----PPIC'08-----

※国内用※

Hotel Reservation Form For Overseas Attendees PPIC'08: June 25 to 27, 2008 Arcadia-Ichigaya Tokyo, Japan

Name: _____
Company: _____
Mailing: _____
City: _____ Zip: _____ Country: _____
Phone:(+) _____, Fax: (+) _____
e-mail: _____ @ _____
Arrival Date: June _____, 2008 (Check in Time): _____
Departing Date: June _____, 2008 Nights: _____

A special block of rooms at a discounted rate is reserved at The Arcadia Ichigaya for PPIC'08 attendees for the nights of June 24 through June 27, 2008. The discounted rate will also be extended 3 days before and after those dates, if the rooms are available. Reservations will be assigned on a priority basis to the PPIC'08 group.

This special reservation will be effective to the requests received by May 25, 2008.

In order to guaranty your room, a deposit equal to one night housing must accompany your reservation request. Deposits can be made by a major credit card number, expiration date and signature.

Please reserve my room as indicated;

Single room- ¥8,000, Twin or Double ¥9,700

Twin or Double ¥14,000 2 person/room

(A twin is furnished with two single beds, and a double has one queen-size bed.)

(Include 10% service fee per day and 5 % Tax.)

(Extra charge : Morning Buffet ¥1,050)

Credit Cards : AMEX, VISA, MC, JCB

Credit card holder name _____ Exp Date: (M)____ /(Y)____

Card #: (. . .) - (. . .) - (. . .) - (. . .)

Signature: _____

In event of cancellation, 14 days notice of cancellation must be made in writing to hotel so that you may receive full refund of your deposit. Check in time is 3:00 PM. Check out time is 10:00 AM.

Please advise us of any change in date or plan:

Fax +81-3-3261-9931, ask for reservation

Fax this form to:

Reservation Manager Attn: PPIC'08 Tokyo

The Arcadia Ichigaya 4-2-5 Kudan Kita,

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*** The discount rate of hotel charges is effective only in the case of a **faxed reservation**.

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