



ICIS2010

**The 31st International
Congress on Imaging
Science:**

“Imaging Science and Technology in the Digital Era”
May 12-16, 2010
China National Convention Center, Beijing, China

held jointly with

1. The 2nd Beijing International Conference on Imaging
2. The 2010 Academic Annual Conference of CSIST

**Second
Announcement
and
Preliminary
Programs**

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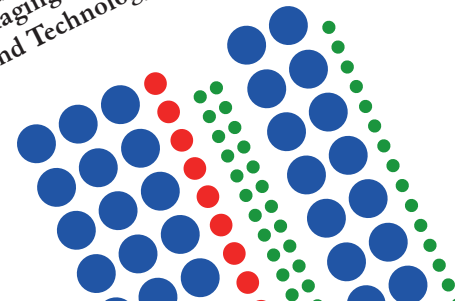
International Committee
for Imaging Science (ICIS)

Chinese Society for
Imaging Science
and Technology (CSIST)



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Advance Registration and Hotel
Registration Deadline: April 1st, 2010



Co-sponsors

Beijing Institute of Graphic Communication (BIGC)

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Chinese Society for Imaging Science and Technology (CSIST)

China International Conference Center for Science and Technology (CICCST)

Cooperating Societies

The Society for Imaging Science and Technology (IS&T), The Royal Photographic Society of Great Britain (RPS), The Imaging Society of Japan (ISJ), The Society of Photographic Science and Technology of Japan (SPSTJ), Korean Society for Imaging Science and Technology (KSIST), German Society for Photography (DGPh) .

Supporting Organization

China Association for Science & Technology (CAST), National Natural Science Foundation of China (NSFC)

Peking University (PKU), Tsinghua University, Beijing University of Chemical Technology (BUCT), Chinese Chemical Society (CCS), China Society of Motion Picture and Television Engineers (CSMPTE) and The Chinese Optical Society (COS)

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Conference Overview

The establishment of International Committee for Imaging Science (ICIS), under the original name of International Committee for the Science of Photography (ICSP), can be traced back to 1889 when its first congress: the International Congress on Photographic Science (ICPS) was held in Paris. Since then, it has upheld its goal of providing a platform for imaging scientists and researchers to exchange information on the latest developments in imaging science and technology, and to promote friendship and cooperation among these individuals by establishing a framework and mechanism for organizing international congresses on imaging on a regular basis. ICIS2010, the 31st Congress in this series, under the theme “Imaging Science and Technology in the Digital Era”, places a special focus on digital imaging and its applications over a wide spectrum of topics, covering all aspects of imaging science, technology and related applications.

By the end of 2010 February, 280 papers were received from both home and abroad, including 11 plenary and keynote talks, in spite of the difficult situation created by the still running global economical recession.

Highlights of ICIS2010 include:

Four tracks of technical sessions. The four tracks are Track A: Digital Imaging and the Related Technologies; Track B: Color Science & Technology/Evaluation Methods; Track C: Digital and On-demand Printing/Publishing Technologies and Systems; and Track D: Novel Imaging and Related Functional Materials.

Eleven plenary and keynote talks. Reviewing the past and indicating the future of imaging science and technology in different areas, the 11 plenary and keynote talks will be addressed by leaders and experts from both industry and academic institutes. Stephen Hoover, VP Tech, Xerox; Shinpei Ikenoue, Senior Adviser, Fujifilm; Hee Dong Park, Director, Information Display R&D Center; Koji Hirakura, President, ISJ; Werner Zapka, Manager, Advanced Application Technology XAARJet AB; David Harbourne, President, Fusion UV Systems, Inc., USA; Qian LIN, Director, Multimedia Interaction and Understanding Lab, HP Labs are on the list of plenary and keynote speakers.

On-site exhibition. An on-site exhibition will be held during the conference to provide opportunities for imaging and related companies to showcase their latest products and technologies.

Conference prize for oral and interactive presentations. In order to encourage young scientists and promote imaging science among them, the Organizing Committee has decided to set up a prize for excellent oral and interactive presentations by young authors. A screening committee will be organized to determine the winner.

A variety of one day tour with English-speaking tour guide. Beijing boasts many places of historical interest, for example, the Forbidden City, the Temple of Heaven, the Great Wall, Summer Palace, the Ming Tombs, the Temple of Sleeping Buddha, the Fragrant Hill Park, the Art Factory. The successful 2008 Beijing Olympics has left Beijing with many new and enviable facilities, such as the Bird Nest (the National Stadium), Water Cube (the National Aquatic Center), the Olympic Park, the Big Egg (the National Center for the Performing Arts), and etc. One day tour to those spots will be organized and implemented on optional basis. Please apply upon registration.

Conference At-a-Glance

Registration (in the CNCC main lobby, enter from C1/C2 entrance of CNCC):
Wednesday, May 12th (7:30 a.m.–8:30 p.m.)

Wednesday, May 12th

- Registration (the whole day)
- Meeting of Session Chairs and Plenary Moderators (21:30)

Thursday, May 13th

- Opening Ceremony (Morning)
- Plenary Talks (Morning)
- * The Future of Print and the Digital Printing Revolution, Stephen Hoover, Xerox Corp.
- * Challenge to Digital Imaging: Past, Present and Future, Shinpei Ikenoue, Fuji Film.
- * The Past, Present and Future of Display Technology, Hee Dong Park, Information Display R&D Center.
- Oral Presentation Session (Afternoon)
- The General Meeting of ICIS (19:30)

Friday, May 14th

- Plenary Talks (Morning)

- * Hardcopy Technologies and the Carbon Footprint, Koji Hirakura, ISJ.
- * History and Outlook of Industrial Inkjet Printing, Werner Zapka, Advanced Application Technology XAARJet AB.
- * The Evolution of UV Photo Polymerization in Global Industrial Markets and the Promising Outlook for the Future of the Technology, David Harbourne, Fusion UV Systems, Inc.,
- * Mobile Image Capture and Consumption, Qian LIN, HP Labs.
- Oral Presentation Session (Afternoon)
- Conference Banquet (18:00)

Saturday, May 15th

- Oral Presentation Session (Morning)
- Interactive Presentation Session (Afternoon)

Sunday, May 16th

- (Optional) One day tour (the whole day)

Information for Presentation

ICIS2010 Outstanding Paper Award

The Organizing Committee has decided to set up conference prize entitled as “ICIS2010 Outstanding Paper Award” for excellent oral and interactive presentations by young authors. A screening committee will be organized to determine the winner. Author who is qualified for the prize must be younger than 45 years old (including 45). Winner will be announced and publicized on the conference official website and a printed certification will be mailed to the winner’s address after the conference.

Information for Presentation

By the end of 2010 February, the Organizing Committee of ICIS2010 had received more than 280 paper contributions, including 11 plenary and keynote papers and 92 from overseas. To include all the presentations in the four tracks over the conference time, time length for **oral presentation will be shortened to 15 minutes including 3 minutes for question and answer, and the 5-minute oral briefing for interactive paper is moved to and integrated with the**

3-hour interactive presentation session. Author of interactive presentation is expected to be standing by his/her poster board throughout the interactive presentation session. Except for the manuscript in both Word format and PDF format, the authors of interactive papers should have their poster display prepared before the conference.

Shown below are instructions for authors to prepare poster display:

* One piece of board with the size of 90cm(width)×120cm(height) will be provided for each interactive paper and please prepare your poster display within this size. The number and a A4 size hardcopy of your poster will be put on top-left of the board to indicate your position for poster display.

* Please email your poster in PDF format to the Organizing Committee of ICIS2010 (icis2010@csist.org.cn) **before April 20th, 2010.**

We advise you to use a minimum amount of text in your poster and to use color figures to present the results. **The conference prize for the best poster presentation will be awarded to the most excellent ones.**

General Information

Venue

ICIS2010 is being held at the China National Convention Center (CNCC), Beijing, China, May 12-16, 2010. CNCC is proudly China's newest and largest international conference venue, with sound multi-functions and world-class facilities. Sitting in the center of the Olympic commercial circle between Beijing's fourth and fifth ring roads, CNCC boasts an enviable location. It stands right next to the major facilities for 2008 Beijing Olympics, with only 30 minutes drive to the airport. And the subway station is connected with CNCC's basement which enables people to quickly go to the city center, the airport, the Beijing railway station, the central business district, Tian'anmen Square and many other tourist attractions. It takes only one hour from CNCC to the renowned Great Wall and Ming Tombs.

Beijing, the Capital of China, is the nation's leading political and cultural center. It boasts a long history as capital city since Liao Dynasty (916-1125), more than 7300 cultural relics and historic sites, and more than 200 scenic spots, such as the Forbidden

City, the Temple of Heaven, the Summer Palace, the Great Wall and etc. The successful 2008 Beijing Olympics has left Beijing with many new and enviable facilities, such as the Bird Nest (the National Stadium), Water Cube (the National Aquatic Center), the Olympic Park, the Big Egg (the National Center for the Performing Arts), and etc. All of them have already become the new icons and must-see attractions of Beijing.

Hotel Accommodation

China National Convention Center Grand Hotel and North Start Huiyuan Service Apartments --Yayuncun Hotel, located in the same block and very close to the conference venue CNCC, are specified as the official hotel for ICIS2010. **Rooms at discounted rate are very limited and available provided reservation is made before April 10th, 2010.** For detail, please see the chapter of "Conference Registration and Hotel Reservation".

Passport and Visa

A valid passport and visa are required to enter China. Upon receiving your registration form, the China International Conference Center for Science and Technology

(CICCST) will send you an invitation letter which also serves as the document for applying entry visa at the nearest Chinese Embassy or Consulate General.

Traffic from the Airport to the Official Hotel

Taxi service is available from Beijing International Capital Airport all day. The cost from the airport to the conference official hotel is approximately RMB 90 (equivalent to US \$ 13). Go to the conference website to print out a note which indicates you are going to the conference official hotel in Chinese and show it to the taxi driver.

Reconfirmation of Departure

All international and domestic airline tickets should be reconfirmed by calling your airline office in Beijing 72 hours in advance of departure.

Working Language

The working language of the Conference is English and no translation is provided.

Weather

Beijing is sunny and hot in May with average daily temperatures of 25^oC (77^oF), with highs around 30^oC (86^oF) and lows around 20^oC (68^oF).

Insurance

The registration fee does not include insurance for accident, sickness, or loss of personal property. Attendees are advised to purchase their own before leaving their home country.

Currency Exchange

The RMB is the only currency used in China. Exchange centers can be found at airports, hotels, and tourist shopping centers. The exchange rate is set by the Bank of China and is currently \$ 1 = RMB 6.83. To change RMB back to foreign currency, you must have your original exchange receipt. Visa, MasterCard, American Express, Diners Club, JCB, and other credit cards are accepted

in many department stores and hotels. It is possible to withdraw cash from ATMs using these cards. The Bank of China and most hotels cash traveller's cheques issued by any foreign bank or financial institution for a 0.75% commission. You must show your passport to do so.

Information

For general information and online registration, please log in:

<http://www.congress.com.cn/icis2010/>. For information about registration, tours, hotel reservations, visa applications, cancellations, and payment, please contact:

Ms. Melody GUAN

CICCST/ Congress ICIS2010

RM 60741, Suyuan Apartment, Beijing Friendship Hotel No. 1, Zhongguancun Nandajie, Haidian District, Beijing 100873, P. R. China

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For all other questions, please e-mail the Chinese Society for Imaging Science and Technology (CSIST) at icis2010@csist.org.cn or xh@csist.org.cn.

On-site Exhibition

On-site exhibition is possible and invited. Those wishing to showcase their technologies, equipments or products during the conference, please contact CSIST by email to xh@csist.org.cn or phone call to +86-10-8254-3686 or send fax to +86-10-8254-3687(fax).

Payment Information

The registration fee, hotel deposit, and tour fees should be paid in RMB and made payable by the following methods:

Payment

Bank transfer

- * Beneficiary: CICCST
- * Beneficiary Bank: Bank of China, Head Office
- * Amount No: 00038018091014
- * Swift Code: BKCHCNBJ
- * Address: 1 Fuxingmen Nei Dajie, Beijing 100818, China

Please do write "ICIS 2010" and the participant's name in the place of "Message".
(Very Important)

Credit card

Visa Card, Master Card, American Express, Diners Club and JCB Card will be acceptable. Please fill in the necessary information, sign your name on the Registration Form and fax or mail it to CICCST. There will be 4% bank charge for the credit card.

Bank draft

Please drawn on: CICCST/ ICIS2010
Mail it to: Ms. Melody GUAN
CICCST/ Congress ICIS2010
RM 60741, Suyuan Apartment, Beijing Friendship Hotel No. 1, Zhongguancun Nandajie, Haidian District, Beijing 100873, P. R. China

On-site Payment

Cash, traveller checks and credit card (Visa Card, Master Card, American Express, Diners Club and JCB) are acceptable

Note

* After April 30, 2010, the payment by bank will not be accepted. If you do, the money will be refunded to you after the conference through the bank, and please pay your fees by credit card or on site.

* In order to avoid any trouble in money transfer, please keep the copy of your remittance invoice or receipt.

* No personal check is acceptable for the above payments.

* Bank charge will be borne by the participant.

Cancellation and Refunds

Cancellation must be made by writing to the CICCST for receiving the refund. The money will be refunded to you after the conference by the same way which you paid before.

	Before May 1 st , 2010	After May 1 st , 2010	Before May 10 th , 2010
Registration Fee	70% refund	50% refund	30% refund
Tour Fees	70% refund	50% refund	30% refund

	Before April 10 th , 2010	After April 10 th , 2010
Hotel deposit	70% refund	No refund

Note

Below information should be reflected in your refund letter if you paid by bank: registration name / registration number / refund reason / amount / receiver's name / bank account number / bank name / bank address / swift code / ref no. / signature

Confirmation

Your registration, tour reservation, hotel reservation and all payments will be confirmed upon receipt of your registration form and payment within 10 days.

Conference Registration and Hotel Reservation

Conference Registration

Registration is required for all participants. Registration fees indicated below include: admission to all sessions and events of the conference, a copy of printed and CD conference proceedings, coffee/tea breaks, conference banquet, 3 lunch and 2 dinner coupon tickets for meals during the conference.

After finishing registration, accompany spouse is entitled to: admission to all sessions and events of the conference and conference banquet. Registration fee as follows:

	Until April 1 st	After April 1 st
Cooperating Societies Member	¥ 3600	¥ 3800
Students	¥ 2800	¥ 3000
Non-Member	¥ 3800	¥ 4000
Accompanying Spouse	¥ 1800	¥ 2000

Note

1. There is 4% bank charge for the credit card.
2. Registration without payment will not be processed.

Registration Desk

A registration desk will be set up in the lobby of CNCC during the congress, please enter the main lobby from C1/C2 entrance of CNCC. Participants are requested to go to the registration desk for registration and pick up the conference kit.

Hotel Reservation

China National Convention Center Grand Hotel and North Start Huiyuan Service

Apartments --Yayuncun Hotel, located in the same block and very close to the conference venue CNCC, are specified as the official hotel for ICIS2010.

During the conference period of time, i.e., May 12-16, 2010, a special block of rooms at a discounted rate is being held and available to conference attendees. The discounted rate is available for 3 days prior to and 3 days after these dates, i.e., between May 9th and 19th, 2010, based on availability. Early reservations are assigned on a priority basis to conference attendees provided they are received by April 10, 2010. To guarantee a room, a deposit equal to one night's housing must accompany the reservation request.

Shown below in the table are rooms and discounted rates for your reference. To get more information and book room, please visit official website: <http://www.congress.com.cn/icis2010/>.

Name of the Hotel	Room Type	Discounted Price	Number of Rooms available for ICIS2010
China National Convention Center Grand Hotel ★★★★	Standard Room	¥ 680.00 (include one breakfast)	100
	Deluxe Room	¥ 880.00 (include one breakfast)	10
	Suites	¥ 1400.00 (include one breakfast)	3
North Start Huiyuan Service Apartments --Yayuncun Hotel ★★★	Standard Room (Two-bed room)	¥ 310.00 (include two breakfast)	80

Note

1. Please complete and return the Registration Form with the hotel deposit (one day's room rate) to CICCST before April 10, 2010.
2. Reservations without deposit will not be processed.
3. Your hotel deposit will be forwarded before the congress to the hotel and the amount will be deducted from your account when you check out.
4. Any changes of a reservation should be notified to CICCST, but not to the hotel.
5. Deadline for the room reservation is April 10, 2010.

Tour Information

One day tours with English-speaking tour guide are available on optional basis and need reservation. Detail information is available and reservation can be made at the registration desk. Shown below are possible routs for your reference. The tour fees indicated include lunch, entrance tickets and English-speaking tour guide.

* LT1:

May 13 08:30-17:00 RMB260 / person
The Fragrant Hill Park - The Temple of Sleeping Buddha - Lunch - Summer Palace.

* LT2:

May 14 08:30-17:00 RMB280 / person
Forbidden City - Lunch - The Temple of Heaven.

* LT3:

May 15 08:30-18:30 RMB320 / person
The Great Wall - Lunch - The Ming Tombs-The Art Factory

* LT4:

May 16 08:30-17:00 RMB280 / person
Forbidden City - Lunch - The Temple of Heaven.

* LT5:

May 16 08:30-18:30 RMB320 / person
The Great Wall - Lunch - The Ming Tombs-The Art Factory

Please be noted that LT1、LT2 and LT3 are intended for accompany persons, and LT4 and LT5 are for conference delegates.

Technical Program

Opening Ceremony and Plenary Speeches

Thursday, May 13	
8:30-9:00	Opening Ceremony
9:00-9:50	Stephen Hoover(Xerox, VP Tech, USA) <i>The Future of Print and the Digital Printing Revolution</i>
9:50-10:05	Tea Break
10:05-10:55	Shinpei Ikenoue(Fujifilm, Senior Advisor, Japan) <i>Challenge to Digital Imaging: Past, Present and Future</i>
10:55-11:45	Hee Dong Park(Director, Information Display R&D Center, Korea) <i>The Past, Present and Future of Display Technology</i>
Friday, May 14	
8:30-9:20	Koji Hirakura(President, ISJ, Japan) <i>Hardcopy Technologies and the Carbon Footprint</i>
9:20-10:10	Werner Zapka (Manager, Advanced Application Technology XAARJet AB, Sweden) <i>History and Outlook of Industrial Inkjet Printing</i>
10:10-10:25	Tea Break
10:25-11:15	David Harbourne(President, Fusion UV Systems, Inc., USA) <i>The Evolution of UV Photo Polymerization in Global Industrial Markets and the Promising Outlook for the Future of the Technology</i>
11:15-12:05	Qian LIN(Director, Multimedia Interaction and Understanding Lab, HP Labs, USA) <i>Mobile Image Capture and Consumption</i>

Oral Presentation Session

Thursday, May 13

Track A: Digital Imaging and the Related Technologies

13 : 30-13 : 45 #266

Performance Evaluation of Rollers for Charging, Development and Transfer in Electrophotography
Ming-Kai Tse and Inan Chen(Quality Engineering Associates (QEA), Inc.;USA)

13 : 45-14 : 00 #233

Colour Management for Cholesteric Displays: Creation and Usage of ICC Colour Profiles,
Gregory High¹, Phil Green¹, and David Coates²(¹London College of Communication and ²Magink Display Technologies;UK)

14 : 00-14 : 15 #58

Liquid Crystals -their High Potential in FET Applications,
Hiroaki Iino, Kyohei Nakano, and Jun-ichi Hanna(Tokyo Institute of Technology ; Japan)

14 : 15-14 : 30 #67

GPU Accelerated Morphological Image Analysis for Automated Surface Quality Inspection of Cold Rolled Strips ,
Dadong Wang¹, Ke Xu² and Jinwu Xu² (CSIRO Biotech Imaging ;Australia and ²University of Science and Technology Beijing ;China)

14 : 30-14 : 45 #218

Real-time Enhancing Method for Night Scene of Vehicular Camera Based on Multi-scale Retinex,
Wang-Jun Kyung¹, Ho-Gun Ha¹, Cheol-Hee Lee², and Yeong-Ho Ha¹ (Kyungpook National University and ²Andong National University ; Korea)

14 : 45-15 : 00 #210

A Study of the Perspectives of College Students of the E-readers ,
Tsung-Yu Hao,Hsueh-Sheng Chen,Min-Hsuan Tsai,Carmen Lin (Shih-Hsin University ; Taiwan, China)

15 : 00-15 : 15 #45

A Novel Tamil Language Character Recognition,
S.Selvakumar Raja and Dr.Mala John (Anna University ; India)

15:15-15:30 Tea Break

15 : 30-15 : 45 #46

Exact Representation of Glyph Contours and Its Application in Text Vectorization,
Tao He and Bingfeng Zhou (Peking University; China)

15 : 45-16 : 00 #6

Forensic Application of Spectral Imaging: Fingerprint Detection Using Visible Absorption and Luminescence,
Wei Huang, Xiaojing Xu,

Guiqiang Wang, Tao Yu, Zhihui Li, Yongqiang Wang, and Zhicheng Yang (Ministry of Public Security; China)

16 : 00-16 : 15 #211

Combining the RFID Tag in the Wine Label to Enhance the Anti-Counterfeiting,
Tsung-Yu Hao¹, Shin Liao², and Fang-Hua Fang¹ (¹Shih-Hsin University and ²National Taiwan Normal University; Taiwan, China)

16 : 15-16 : 30 #199

Preparation and Characterization of Microcapsules with Compact Wall Structure for Electrophoretic Displays ,
Runying Dai, Peipei Ying, Sheng Liu, Gang Wu, and Hongzheng Chen (Zhejiang University; China)

16 : 30-16 : 45 #125

Improved Moment Method for Positioning Sub-pixel of CCD Star Image
Jinyun Guo^{1,2,3}, Laiyong Song^{1,2}, Yanben Han³, Xiushan Lu^{1,2} (¹Shandong University of Science and Technology, ²SBSM and ³National Astronomical Observatories ,CAS ; China)

16 : 45-17 : 00 #13

Color Balance Method for Digital Orthographic Maps Based on Neural Network,
Zhaohui Cao (Zhengzhou Institute of Surveying and Mapping; China)

17 : 00-17 : 15 #112

The Research on the Anti-counterfeiting Technology Using Moire Based on Conventional Printing,
Taolin Ma, Lei Liu, and Xiang Li (Wuhan University; China)

Track B: Color Science & Technology/Evaluation Methods

13 : 30-14 : 00 Keynote Speech

Full Spherical HDR Photography and Its Application in Computer Graphics, the Automotive Industry and the Entertainment Markets ,
Gerhard Bonnet (CEO, Spheron vr AG; Germany)

14 : 00-14 : 15 #42

Effect of Environmental Factors on Perception of Image Attributes,
M. J. Murdoch, M. van Erten, and I. Heynderickx (Philips Research Laboratories; The Netherlands)

14 : 15-14 : 30 #115

Real-Time Tone-Mapping of High Dynamic Range Image using Gazing Area Information,
Toshiaki Mikami, Keita Hirai, Toshiya Nakaguchi, and Norimichi Tsumura (Chiba University; Japan)

14: 30-14: 45 #167

Evaluation of Hue Uniformity for Uniform Colour Spaces Using Unique Hue Data, *Kaida Xiao, Sophie Wuergler, Chenyang Fu, and Dimosthenis Karatzas (University of Liverpool; UK)*

14: 45-15: 00 #40

An Alternative Method to Sensor Spectral Characterization, *Heng Zhang^{1,2}, Shuxue Quan², and Huaping Liu¹ (¹Oregon State University and ²Broadcom Corporation; USA)*

15: 00-15: 15 #170

Bef Color Difference Formula, *Sergey N. Bezyadin (Unified Color Technologies; USA)*

15: 15-15: 30 #29

Investigations in the Influence of Rounded Toner Particles on the Image Quality Parameters, *Ralf Habermann¹, Beat Zobrist² (¹Hosokawa Alpine Aktiengesellschaft; Germany and ²Zobrist Engineering & Consulting; Switzerland)*

15:30-15:45 Tea Break

15: 45-16: 00 #272

Advances in Colour and Vision Science by the CIE, *Ming Ronnier Luo (University of Leeds; UK)*

16: 00-16: 15 #119

Color Estimation Method of Rouge Applied to Lip Based on Optical Properties, *Rie Ohtsuki^{1,2}, Shoji Tominaga², and Rie Hikima¹ (¹Kanebo COSMETICS INC and ²Chiba University; Japan)*

16: 15-16: 30 #153

Construction of Color-difference Evaluation Data-Set by altering the Lightness and Chroma of Digital Images, *Meng Xie, Haoxue Liu, Min Huang, Cuihua Wang, and Zhujun Wang (Beijing Institute of Graphics Communication; China)*

16: 30-16: 45 #135

Study on Original Image Gamut and Gamut Mapping Adaptability in Digital Printing, *Guangxue Chen¹ and Xiaozhou Li^{1,2} (¹South China University of Technology and ²Shandong Institute of Light Industry; China)*

16: 45-17: 00 #131

A Polynomial Regression Algorithm for RGB-XYZ Conversion, *Xia Zhang and Guangwei Liu (Wuhan University; China)*

17: 00-17: 15 #4

Amphiphathic Polymeric Photoinitiators Systems Containing PEO Short Chains, *Xuesong Jiang, Yana Wen, and Jie Yin (Shanghai Jiao Tong University; China)*

Track C : Digital and On-demand Printing/Publishing Technologies and Systems

13: 30-14: 00 Keynote Speech

Requirements for Digital Color Reproduction, *Dr. Phil Green, Prof. (Reader in Color Imaging, LCC; UK)*

14: 00-14: 15 #19

Operations Modeling and Analysis of Commercial Print Services, *Jun Zeng, I-Jong Lin, and Tzipi Netz (Hewlett-Packard Co.; USA and Hewlett-Packard Indigo Ltd.; Israel)*

14: 15-14: 30 #200

The Professional Competencies of Integrated Publishing for the Employees Working in Digital Publishing Industry, *Liao, Shin, Hao, Tsung-Yu, and Pan, and Yi-Chen (National Taiwan Normal University and Shih Hsin University; Taiwan, China)*

14: 30-14: 45 #201

Gray Balance Control Technology in Digital Workflow, *Hengyin Wang (Jiangnan University; China)*

14: 45-15: 00 #228

Study of Joint Venture Strategies Between Print-on-demand Digital Publisher and Museum Digital Archives, *Li-Yi Ma, Shin Liao, and Chang Shu-Li (Shih-Hsin University; Taiwan, China)*

15: 00-15: 15 #80

An Intelligent Data Transmission and Monitoring System for BHP Film Printer, *Heping Yang and Lina Wang (Beijing Film and Video Laboratory; China)*

15: 15-15: 30 #85

Study on the Capability Evaluation of Digital Printer, *Lingjun Kong and Zhongmin Jiang (University of Shanghai for Science and Technology; China)*

15:30-15:45 Tea Break

15: 45-16: 00 #165

Fundamental Performance Limits in Image Fusion, *Erwin Gilmore and Mohammed Chouikha (Howard University; USA)*

16: 00-16: 15 #12

A Model of Line Quality Control in the Digital Proofing Based on Neural Network, *Jianlong Wen (Zhengzhou Institute of Surveying and Mapping; China)*

Track D : Novel Imaging and Related Functional Materials

13: 30-14: 00 Keynote Speech

Development of Photographic Science and

Technology for Advanced Devices, *Dr. Tadaaki Tani (Former ICIS President; Japan)*

14: 00-14: 15 #234

How Many Pixels Does it Take to Make a Good 4" x6" Print? Pixel Count Wars Revisited, *Michael A. Kriss (Portland State University; USA)*

14: 15-14: 30 #51

Supramolecular Third-order Nonlinear Optical Switches Nased on the Photo-controllable Assemblies of Phthalocyanines, *Zihui Chen and Fushi Zhang (Tsinghua University; China)*

14: 30-14: 45 #5

Synthesis and Properties of Novel Rapid Photoresponse No-loss Azo Materials, *Yong He, Jianwei Liu, and Jun Nie (Beijing University of Chemical Technology; China)*

14: 45-15: 00 #118

Computer Simulation for Image Dots in the Gravure Printing, *Jong Tae Youn (Pukyong National University; Korea)*

15: 00-15: 15 #56

Photoinduced Discharge Mechanism of High Gamma Photoreceptor and Electrophotographic Performance, *Kuniki Seino, Hideaki Hirahara, Takaaki Konuma, Ichiro Yoshida, and Shozo Kaieda (Afit Corporation; Japan)*

15: 15-15: 30 #264

Study of Methoxyphenylquinoxalines (MOPQs) as Photoinitiators in the Negative Photo-resist, *Lida Sun, Xuesong Jiang, and Jie Yin (Shanghai Jiao Tong University; China)*

15:30-15:45 Tea Break

15: 45-16: 00 #240

Fabrication of Photonic Recording Materials From Liquid Crystals and a Polymer Template, *Jinbao Guo, Hao Wu, and Jie Wei (Beijing University of Chemical Technology; China)*

16: 00-16: 15 #90

Photogeneration and Transport of Charges in Single-layer Organic Photoconductors for Electrophotography, *Yasushi Tanaka¹, Mitsuru Narita¹, Yoichi Nakamura¹, Seizou Kitagawa¹, and Inan Chen² (¹Fuji Electric Systems Co., Ltd.; Japan and ²Quality Engineering Associates (QEA) Inc.; USA)*

16: 15-16: 30 #249

Latest Developments in Chemically Prepared Toner, *Graham J. Galliford (Galliford Consulting & Marketing; USA)*

16: 30-16: 45 #250

Study on the Process of Forming Glassy Liquid Crystal for a Dicholesteryl Photodimer, *Xiaoming*

Dong, Jinbao Guo, and Jie Wei (Beijing University of Chemical Technology; China)

16: 45-17: 00 #128

Synthesis and Photopolymerization of Silicon-containing Vinyl Ether Monomers, *Shizhuo Xiao and Yingquan Zou (Beijing Normal University; China)*

17: 00-17: 15 #230

Retinal Vessel Center Line Tracking Using Bilateral Filter and Canny Edge Detection Method, *Miao Chuang (Jilin University; China)*

Friday, May 14

Track A : Digital Imaging and the Related Technologies

13: 30-13: 50 Invited Speech

Green Rendering for Printing, *Zhigang Fan (Xerox Corporation; USA)*

13: 50-14: 05 #68

Parallel Gemmological Image Analysis for Opal Grading, *Dadong Wang¹, Leanne Bischof², Bryan Dai¹, Ryan Lagerstrom¹, Graham Hornabrook², and Peter Sutton² (¹CSIRO Biotech Imaging and ²Opal Producers Australia Limited; Australia)*

14: 05-14: 20 #66

Continuous Tone Image with Phthalate Derivatives-based Three Primary Color Electrochromic Cell, *Yuichi Watanabe, Satomi Tanaka, Kazuki Nakamura, and Norihisa Kobayashi (Chiba University; Japan)*

14: 20-14: 35 #123

Sharing Multiple Secret Images in k out of n Visual Cryptography Scheme, *Ching-Nung Yang, Ting-Hao Chung, and Chih-Yang Chiu (National Dong Hwa University; Taiwan, China)*

14: 35-14: 50 #91

Textile Inkjet Print Quality of Polymer Pretreatment on Cotton, *Yutthana Lila and Juntira Komassatitaya (King Monkut's University of Technology Thonburi; Thailand)*

14: 50-15: 05 #134

Study on the Aging Property of the Coating of Ink-Jet Printing Paper, *Gang Chen, Zhiqiang Fang, Jiajun Zhen, Xinsheng Chai, Ai Wen, and Guangxue Chen (South China University of Technology; China)*

15: 05-15: 20 #166

Numerical Simulation of Dielectric Barrier Discharges in Electrophotography, *Napoleon Leonil and Bhooshan Paradkar² (¹Hewlett Packard Laboratories and ²UCSD; USA)*

15: 20-15: 35 #65

Creation of Luminescent Eu(III) Complex with Remarkably Sharp Emission Band for Achieving Novel Lasing Medium, *Kazuki Nakamura, Yasuchika Hasegawa, and Norihisa Kobayashi* (Chiba University; Japan)

15:35-15:50 Tea Break

15: 50-16: 05 #124

Modeling BRDF of Silk Fabric by Modifying Phong Reflection Model, *Chawan Koopipat, Boonyakiat Chaitepprasith and Suda Kiatkamjornwong* (Chulalongkorn University; Thailand)

16: 05-16: 20 #248

Adjective, Color, and Strength, *Mengtsung Tai, Wang Luh-Wang, and Shin Liao* (National Taiwan University of Arts, Taiwan, China)

16: 20-16: 35 #10

3-Dimensional Imaging Technique Based on 2-Dimensional Plane, *Ruizhi Shi* (Zhengzhou Institute of Surveying and Mapping; China)

16: 35-16: 50 #57

World's First Charge Roller System Implemented in High-End Digital Commercial Printing Engine, *Omer Gila¹, Michael H. Lee², Seongsik Chang³, Bill Holland⁴, Eric Hanson¹, Boaz Tagansky² and Gadi Oron²* (¹Hewlett-Packard Labs; USA and ²Hewlett-Packard Indigo; Israel)

16: 50-17: 05 #30

The Research on Color Uniformity of Tiled Multiple Projectors Display System, *Zhen Liu, and Mingwei Yu* (University of Shanghai for Science and Technology; China)

17: 05-17: 20 #263

Vehicle Plate Detection Using Bilateral Filter and Wavelet Method, *Yao Li, Yan Hou, Zhenhua Chi, Hang Yang, Xiaoxue Chi and Samuel Chang* (Jilin University; China)

Track B: Color Science & Technology/Evaluation Methods

13: 30-13: 45 #176

Measurement of the Optimum Background Lightness: the Case of Reflective Stimulus, *Ye Seul Baek¹, Youn Jin Kim², Hong Suk Kim¹ and Seung Ok Park¹* (¹Daejin University and ²Samsung Electronics Company; South Korea)

13: 45-14: 00 #222

Frequency Domain Design for Electro-Photography Screens Robust to Process Variations, *Mani Fischer, and Doron Shaked* (Hewlett Packard Laboratories; Israel)

14: 00-14: 15 #217

Color Correction Matrix Based on Camera for Projected Image on Colored-screen, *Dae-Chul Kim, In-Su Jang, Tae-Hyoung Lee, and Yeong-Ho Ha* (Kyungpook National University; Korea)

14: 15-14: 30 #267

Design of Test Targets for Objective Image Quality Evaluation – Principles and Practice, *Ming-Kai Tse* (Quality Engineering Associates (QEA), Inc.; USA)

14: 30-14: 45 #181

How Sensitive Are We to the Variation in "Reflection Optical Density?", *Ari Kim¹, Youn Jin Kim¹, Hong Suk Kim¹, and Seung Ok Park¹* (¹Daejin university and ²Samsung Electronics Company; South Korea)

14: 45-15: 00 #16

Fingerprint Image Restoration Base on Image Fusion, *Yongqiang Wang, Zhicheng Yang, Zhihui Li, and Xiaojing Xu* (Ministry of Public Security; China)

15: 00-15: 15 #154

Research on Digital Image's Color-Difference by Altering Lightness and Chroma I: Analysis of Subjective Color-Difference Data Set, *Haoxue Liu, Meng Xie, Min Huang, and Cuihua Wang* (Beijing Institute of Graphics Communication; China)

15: 15-15: 30 #76

Basic Linearization Control Method Matching Process Solid Density Standards, *Shide Liu and Qun Sun* (Information Engineering University; China)

15:30-15:45 Tea Break

15: 45-16: 00 #171

Bef Format for Image Data Transmission, *Sergey N. Bezryadin* (Unified Color Technologies; USA)

16: 00-16: 15 #207

Computation of Color Appearance of Images Nased on Color Vision, *Xiaoxia Wan and Dehong Xie* (Wuhan University; China)

16: 15-16: 30 #161

Spectral Representation of Different Color Data set Applying LabPQR Interim Color Space Compared to Principal Component Analysis (PCA), *Saeideh Gorji Kandi* (Institute for Color Science and Technology; Iran)

16: 30-16: 45 #155

Research on Digital Image's Color-Difference by altering Lightness and Chroma II: Analysis and Evaluation of Color-Difference Formulae, *Min Huang, Haoxue Liu, Meng Xie, and Zhujiun Wang* (Beijing Institute of Graphics Communication;

China)

16: 45-17: 00 #28

Structural Modification and Photochromic Study of Naphthopyran Compounds, *Qinghua Meng, Deyin Huang, Zhen Wang, and Dingliang Fu* (Shanghai Jiao Tong University; China)

17: 00-17: 15 #158

Contor of Tone and Color Balance in Digital Printing, *Lanyun Hao* (Jiangnan University; China)

Track C: Digital and On-demand Printing/Publishing Technologies and Systems

13: 30-13: 45 #132

Halftoning Method and Reproduction of Color Gamut in Digital Image, *Guangxue Chen, Qifeng Chen, Baoling Tang, Jinglei Tai, and Gang Chen* (South China University of Technology; China)

13: 45-14: 00 #216

Fast Inverse Halftoning, *Zachi Karni and Daniel Freedman* (HP-Labs; Israel)

14: 00-14: 15 #224

Evaluate and Research the Halftone Image Quality, *Bin Li* (Jiangnan University; China)

14: 15-14: 30 #86

A General Quality Evaluation Method Based on Visual Model for Halftone Images, *Yihua Zhou* (Wuhan University; China)

14: 30-14: 45 #142

Quality Assessment Method of Halftoning Image Based on Structural Similarity, *Yaohua Yi, Yuchao Wu, Qiumei Yang, and Chao Kong* (Wuhan University; China)

14: 45-15: 00 #223

Printability Study of Recycle Paper on Xerox DocuPrint Digital Press, *Li-Yi Ma, Tsung-Yu Hao, and Yi-Cih Su* (Shih-Hsin University; Taiwan, China)

15: 00-15: 15 #11

Relationship between Image Tone Distribution and Printing Press Ink Supply, *Ruizhi Shi* (Zhengzhou Institute of Surveying and Mapping; China)

15: 15-15: 30 #138

Study on Ink-jet Image Quality Detection Method Based on MTF, *Xiaomeng Cui, Guangxue Chen* (South China University of Technology; China)

15:30-15:45 Tea Break

15: 45-16: 00 #87

Research on the Visualization Process of Ink Droplets Infiltrating and Diffusing in the Substrate in Inkjet Imaging System, *Guangxue Chen, Qifeng Chen, Jinglei Tai, and Baoling Tang* (South China University of Technology; China)

16: 00-16: 15 #220

Measuring the Quality of Quality Measures, *Hila Nachlieli and Doron Shaked* (Hewlett-Packard Laboratories; Israel)

16: 15-16: 30 #27

Synthesis and Application of Hyperbranched Polymeric Dyes Used in Ink-jet Ink, *Qinghua Meng, Deyin Huang, and Shaoyu Zheng* (Shanghai Jiao Tong University; China)

16: 30-16: 45 #38

Particle-substrate-charge Interactions Observed Using Evanescent Waves, *Henryk Birecki, and Thomas C. Anthony* (Hewlett Packard; USA)

16: 45-17: 00 #34

Grey Comprehensive Assessment Apply In Synthetic Evaluation of Photographic Paper's Ink Jet Printing Quality, *Xue Li and Yunzhi Chen* (Tianjin University of Science & Technology; China)

17: 00-17: 15 #75

The Imaging Quality Analysis of Ink-jet Printing, *Songbo* (Jiangnan University; China)

Track D: Novel Imaging and Related Functional Materials

13: 30-13: 45 #235

Spectral Model of an Electro-photographic Printing System, *Michael A. Kriss* (Portland State University; USA)

13: 45-14: 00 #226

A Novel Silver Sulfide Nano-structured Sensitizer and its Chemical Sensitizations in the Silver Halide Imaging System, *Zhi Li, Tong Zheng, Yao Shi, Wangjing Ma, Peicheng Duan, and Xinmin Yang* (Technical Institute of Physics and Chemistry; CAS; China)

14: 00-14: 15 #269

Novel Coumarin/Benzylidene Cyclopentanone Dyes for Two-Photon Polymerization, *Yuxia Zhao and Feipeng Wu* (Chinese Academy of Sciences; China)

14: 15-14: 30 #262

Research Progress in Treatment of Image Disease, *Yuhu Li, Yajun Zhou, Shukun Shen, Xiaoli Qin, and Chenxi Zuo* (Shaanxi Normal University; China)

14: 30-14: 45 #242

Preparation of Functionalized Multi-Walled

Carbon Nanotubes and Their Applications for Fabricating Flexible Electronic Circuits, *Huihui Wang and Jie Wei* (Beijing University of Chemical Technology; China)

14: 45-15: 00 #130

Molecular Glass Materials for UV Positive Photoresist, *Jinxing Yu, Na Xu, and Liyuan Wang* (Beijing Normal University; China)

15: 00-15: 15 #243

Effect of Monomer Structures and Polymerization Conditions on Characteristics of Polymer Stabilized Isotropic LCs, *Rui Li, Jinbao Guo, and Jie Wei* (Beijing University of Chemical Technology; China)

15: 15-15: 30 #141

The Synthesis and Imaging Study of a Series of Novel Photoactive Polymers with Diazoketo Groups in their Side Chains, *Lu Liu and Yingquan Zou* (Beijing Normal University; China)

15:30-15:45 Tea Break

15: 45-16: 00 #163

The Research on HDR Image Rendering Algorithms Based on iCAM, *Ming Zhu, Zhen Liu, and Dandan Yang* (Nanjing Forestry University; China)

16: 00-16: 15 #145

Silicon-Containing Vinyl Ether Resists for Nanoimprint Lithography, *Yuan Fang and Yingquan Zou* (Beijing Normal University; China)

16: 15-16: 30 #241

Microencapsulation of Cholesteric liquid-crystal and its Reversible Thermochromic Behavior, *Nan Ji, Jinbao Guo, Jie Wei* (Beijing University of Chemical Technology; China)

16: 30-16: 45 #172

Synthesis and Characterization of UV-sensitive Monomers Containing Chalcone Moieties, *Zhengkai Si, Qing Zhang, Minzhao Xue, Qiaorong Sheng, and Yangang Liu* (Shanghai Jiaotong University; China)

16: 45-17: 00 #143

Electropolymerized PEDOT: PSS Films Derived From Isopropanol Electrolyte and Its Application in Organic Electroluminescent Devices, *Jun Yan, Xiaona Liu, Chenghua Sun, Xiujiehu, Shuyun Zhou, and Ping Chen* (Chinese Academy of Sciences; China)

17: 00-17: 15 #186

A Study of Effective Marketing Channel Strategies for Digital Publishing Industry in Taiwan, *WANG, LUH-WANG; HO, HUI-YI, and WU, SHIANG-CHUN* (Shih Hsin University; Taiwan, China)

Saturday, May 15

Track A: Digital Imaging and the Related Technologies

8: 30-9: 00 Keynote Speech

The Transformation of Commercial Printing by Digital Printing Processes, *Dr. Eric Hanson* (Director, Commercial Printing Engine Lab, HP Labs Former President of IS&T; USA)

9: 00-9: 15 #271

Non-Linear Edge-adaptive Image Zooming Method based on Radial Basis Function, *Jungho Yoon¹, Lee¹, Sang-Ah¹, and Yeon Ju Lee²* (¹ Ewha W. University and ² KAIST; S. Korea)

9: 15-9: 30 #168

A Study of Printed RFID Tags with Halftone Dots by Using Screen Printing, *Tsung-Yu Hao, Li-Yi Ma, and Chao-Chi Hung* (Shih-Hsin University; Taiwan, China)

9: 30-9: 45 #169

An Environmentally Benign 'Universal' Deinking Approach, *Hou T. Ng, Manoj K. Bhattacharyya, Laurie Mittelstadt, and Eric G. Hanson* (Hewlett-Packard co.; USA)

9: 45-10: 00 #47

A Method for Calculating Similarity Among Glyphs Using Cross Correlation, *Tao He and Bingfeng Zhou* (Peking University; China)

10: 00-10: 15 #26

Novel Digital Media with Electronic Inks, *Zhanglin Zhou, Jong-Souk Yeo, Jeff Mabeck, Gregg Combs, Dick Henze, and Tim Koch* (Hewlett-Packard Company; USA)

10:15-10:30 Tea Break

10: 30-10: 45 #79

DigiDelivery Application in Footage Transmission, *Yifeng Wang* (Beijing Film and Video Laboratory; China)

10: 45-11: 00 #109

The Design and Application of the Digital Printing Test Target, *Taolin Ma, Qun Zhan, and Xiaoyan Lu* (Wuhan University; China)

11: 00-11: 15 #59

An Analysis of Density Characteristics of Digital Print's Solid Color Basing on Digital Image Processing, *Yanfeng Xu and Ge Guo* (Beijing Institute of Graphic Communication; China)

11: 15-11: 30 #203

Print Color Control and Quality Standardization Measuring System, *Shengwei Yang¹ and Zhen Liu²* (¹ Nanjing Forestry University and ² University of Shanghai for Science and Technology; China)

11: 30-11: 45 #137

Research on Dot Compensation Method of

Digital Image, *Haiwen Wang^{1,2}, Guangxue Chen¹, and Jie Li³* (¹ South China University of Technology; ² Zhejiang University of Science and Technology; and ³ College of Quzhou; China)

11: 45-12: 00 #13

Color Balance Method for Digital Orthographic Maps Based on Neural Network, *Zhaohui Cao* (Zhengzhou Institute of Surveying and Mapping; China)

Track B: Color Science & Technology/Evaluation Methods

8: 30-8: 45 #7

Computer Simulation of Mixing of Toners in EP Processes, *Akin Ecer* (Technalysis, Inc.; USA)

8: 45-9: 00 #15

Emissive Semi-Interpenetrating Polymer Network for OLED displays, *Lihua Zhao, Zhanglin Zhou, James A. Brug, Sity Lam, and Gary Gibson* (Hewlett-Packard Company; USA)

9: 00-9: 15 #151

Effects of Coating Components on Image Water-resistance for Eco Ink-jet Paper, *Gang Chen, Zhiqiang Fang, Jiajun Zhen, Xinsheng Chai, and Guangxue Chen* (South China University of Technology; China)

9: 15-9: 30 #182

Active Paper Surface Components and Their Relationship to Promoting Ink-Paper Adhesion, *Manoj K. Bhattacharyya, Sivapackia Ganapathiappan, Marc Aronhime, Hou T. Ng, Bruce Jackson, Stanley D. Morse, and Eric G. Hanson* (Hewlett-Packard co.; USA)

9: 30-9: 45 #78

Color Electronic Paper Based on Particle Control Technologies, *Takashi Kitamura* (Chiba University; Japan)

9: 45-10: 00 #146

Application of Artificial Neural Network to CCD Device Characterization for Press Colors, *Ge Guo and Yanfang Xu* (Beijing Institute of Graphic Communication; China)

10: 00-10: 15 #44

Research on Dot Reproduction Characteristics in CTcP and CTF Platemaking Processes, *Wenyan Jiang¹, Lili Si¹ and Dongyin Zhao²* (¹ Zhejiang University of Science and Technology and ² Zhejiang IMGS Printing CO., LTD; China)

10:15-10:30 Tea Break

10: 30-10: 45 #114

Influence of Paper Coating Layer Structure on

Precision of Ink-jet Printing Image, *Jinglei Tai, Guangxue Chen, Qifeng Chen, and Baoling Tang* (South China University of Technology; China)

10: 45-11: 00 #113

Study of Anti-Counterfeit Background Lines Mode, *Taolin Ma, Congcong Zhao, and Haiyan Zhou* (Wuhan University; China)

11: 00-11: 15 #55

To Study the Absorb Dose of CR in Bedside with Patients, *Jun Wang* (General Hospital of Nanjing Military; China)

11: 15-11: 30 #219

Expanding the LCD Gamut by the Baseline Control, *Jincheng Li* (Hangzhou Dianzi University; China)

11: 30-11: 45 #204

Definition Evaluation Based on MTF for FILM, *Yuxi Chen* (Jiangnan University; China)

Track E: Digital Imaging and the Related Functional Materials

8: 30-8: 45 #270

Fatigue on Electronic Paper, Display, and Paper with Free and Fixed Handling Styles, *Makoto Omodani and Sonomi Inoue* (Tokai University; Japan)

8: 45-9: 00 #187

A Study of Consumers' Behavioral Intentions of Using Cross-media book for learning-An Application of the Technology Acceptance Model, *HO, HUI-YI¹; WANG, LUH-WANG² and TSAI, HSIU-CHUAN³* (¹ Chinese Culture University; and ^{2,3} Shih Hsin University; Taiwan, China)

9: 00-9: 15 #77

Printed Electronics and Ink Jet Printing, *Luhai Li, Zhiqing Xin, Wen Zhao, Peng Du, Zeng Dan, and Bu Luo* (Beijing Institute of Graphic Communication; China)

9: 15-9: 30 #197

Preparation and Study of Photoswitchable Fluorescence Nanoparticles Based on Spirobenzopyran, *Liang Ming, Qing Zhang, Minzhao Xue, Qiaorong Sheng, and Yangang Liu* (Shanghai Jiaotong University; China)

9: 30-9: 45 #208

Modified Error Diffusion Algorithm for Edge Enhancement Based on Local Contrast of Input Images, *Xiaoxia Wan, and Dehong Xie* (Wuhan University; China)

9: 45-10: 00 #257

Imaging Performance of the Thermal CTP Plate, *An Yang, Weimin Zhang, and Jialing Pu* (Beijing

Institute of Graphic Communication; China)

10: 00-10: 15 #225

Study on the Miniemulsion Polymerization and Photochromic Characteristics of Spirobenzopyran Embedded Polyacrylate Nanoparticles, *Qing Zhang, Lingyan Gu, Qiaorong Sheng, Minzhao Xue, and Yangang Liu (Shanghai Jiaotong University; China)*

10:15-10:30 Tea Break

10: 30- 10: 45 #258

Synthesis and Characterization of A Novel Acid Proliferation Generator: Hexaphenylbenzene as Core, *Wenguang Wang, Xuying Liu, Weimin Zhang, and Jialing Pu (Beijing Institute of Graphic Communication; China)*

10: 45-11: 00 #261

Progress of Multi-Photon Polymerization toward Micro/Nanostereolithography, *Xianzi Dong, Feng Jin, Weiqiang Chen, Zhensheng Zhao and Xuanming Duan (Chinese Academy of Sciences; China)*

11: 00-11: 15 #259

A New Spectral Clustering Analysis Method Based on First Derivative, *Xiaoxia Wan and Qiang Liu (Wuhan University; China)*

11: 15-11: 30 #92

Synthesis of New Hybrid Monomers Containing Vinyl Ether and (Methyl) Acryloyl Groups, *Cuimei Diao and Yingquan Zou (Beijing Normal University; China)*

11: 30-11: 45 #206

Research on the Special Archives' Digitalization of Republic of China, *Yaolin Zhou and Shanshan Li (Wuhan University; China)*

Interactive Presentation Session

Saturday, May 15 13:30-16:30 p.m.

Track A: Color Science and Technology for Digital Imaging Systems

A1 #74

Spectral Images Browsing with JPEG2000, *Long Ma¹, Changjun², and Shuni Song³; ¹Chinese Academy of Sciences(China), ²University of Leeds(UK), and ³Northeastern University (China)*

A2 #121

Quantifying Smoothness of LUT-based Color Transformations, *Zhaohui Wang, Anna Aristova, and Jon Yngve Hardeberg, Gjøvik University College (Norway)*

A3 #2

Comparison of Preferred Flesh Color between Japan and China, *Ying Fan, Pei Deng, Nokazu AOKI, and Hiroyuki KOBAYASHI, Chiba University (Japan)*

A4 #174

A Method for Transforming ISO Status A Densities to Colorimetric Values, *Shi Liu, Beijing Film Academy (China)*

A5 #180

Color Emotion for LED Point Wallpaper, *Chang Hwan Baek¹, Youn Jin Kim², Hong Suk Kim¹, and Seung Ok Park¹; ¹Daejin University and ²Samsung Electronics Company (South Korea)*

A6 #185

G7 Methodology in the Application of Offset Printing, *Tao Meng¹, Xudong Wang², Wan Zhang¹, and Haoxue Liu¹; ¹Beijing Institute of Graphic Communication and ²C&C Joint Printing Co., (China)*

A7 #50

Image Reconstruction for Compressed Sensing Using Contourlets and Two-Step Iteration Shrinkage, *Fan Yang¹, Shengqian Wang², and Chengzhi Deng²; ¹Jiangxi Science & Technology Normal University and ²Nanchang Institute of Technology (China)*

A8 #53

Digital Imaging Giving a Taste of the Silver Halide Photography, *Miaomiao LIU, Nokazu AOKI, and Hiroyuki KOBAYASHI, Chiba University (Japan)*

A9 #54

Angle Estimation based on Image Pyramid and Gray Projection, *Ying MAI, Hongying ZHAO, and Lei YAN, Peking University (China)*

A10 #71

Improving Efficiency in Processing Microfilm Images With Photoshop Batch Processing, *Wujian Liu, Liqun Meng, and Hao Wang, China National Microfilming Center for Library Resources (China)*

A11 #98

Binocular Vision-based Relative Position and Attitude Determination Algorithm and Application System, *Wei Sun, Xidian University (China)*

A12 #33

Synthesis and Electropolymerization of Phenoxy-alkyl-bridged Dicarbazole and Fluorescence of its Freestanding Polymer Film, *Shuai Chen, Jingkun Xu, Baoyang Lu, and Xuemin Duan, Jiangxi Science and Technology Normal University (China)*

A13 #133

Data Dissemination and Visualization Browsing of Digital Map Based on Web, *Guangxue Chen¹, Xiaozhou Li^{1,2}, Xiaomeng Cui¹, and Haiwen Wang^{1,3}; ¹South China University of Technology, ²Shandong Institute of Light Industry and ³Zhejiang University of Science and Technology (China)*

A14 #136

Improvement of Rational Tangent Screening Algorithm, *Haiwen Wang^{1,2}, Guangxue Chen¹, and Jie Li³; ¹South China University of Technology, ²Zhejiang University of Science and Technology and ³College of Quzhou (China)*

A15 #149

Research into Digital Watermark Algorithm Based on Wavelet Domain, *Guangxue Chen, Baoling Tang, Qifeng Chen, Jinglei Tai, and Gang Chen, South China University of Technology (China)*

A16 #152

Mosaic Information Format Conversion of RS Image and Application, *Jieli Song, Hui Wang, Xuelian Sui, Fan Zhang, Youth Committee of CSIST (China)*

A17 #238

Image Recovery of Blurring Digital Manuscript Based on Wavelets Transform Algorithm, *Xiaojun Wang, North China Electric Power University (China)*

A18 #245

Reexamination of Precipitation Forecast Using Tone-corrected Satellite Images, *Hui-bin JIANG and Shigeru KITAKUBO, Nippon Institute of Technology (Japan)*

A19 #247

A Study on Processing Fingerprint Images, *Zongxuan WU and Shigeru KITAKUBO, Nippon Institute of Technology (Japan)*

A20 #110

Research of Dot Percentage Detection Method Based on Digital Image Processing, *Zhihui Li and Wanyou Tang, Tianjin University of science & Technology (China)*

A21 #111

The Application of HDRI Technology in Forensic Photography, *Chunbing Zhou, China Criminal Police University (China)*

A22 #69

Generation of Digital Screen with Special Effect and Screening of Image, *Yang Jin^{1,2}, Zhen Liu³, Wuguang Zhu⁴, and Pengfei Wang⁵; ^{1,5}Beijing Institute of Graphic Communication, ²Nanjing Forestry University, ³University of Shanghai for Science and Technology, and ⁴The Commercial Press (China)*

A23 #70

Study on Generation of Threshold-Array with the Directions based on Space Filling Curve and Line-art Screening, *Yang Jin^{1,2}, Zhen Liu³, Lei Zhang⁴, and Dongping Pan⁵; ¹Nanjing Forestry University, ^{2,4,5}Beijing Institute of Graphic Communication and ³University of Shanghai for Science and Technology (China)*

A24 #39

Dynamic Analysis and Technique Study on Stainless Steel Electrolytic Polishing Used for Flexible Display, *Jian Leng, Zhinong Yu, Wei Xue, Dongpu Zhang, and Yuqiong LI, Beijing Institute of Technology (China)*

A25 #36

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