

2nd IS&T/SID Color Imaging Conference 1994

Color Science, Systems, and Applications

**Scottsdale, Arizona, USA
15-18 November 1994**

ISBN: 978-1-62276-633-8

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Red Hook, NY 12571



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Table of Contents

The Conference Committee	iv
Thank You Corporate Sponsors	v
The Tutorials	v
Welcome to the Conference	vi
In Memory of Warren “Dusty” Rhodes	vii
The Papers Program	viii
The Technical Papers	1
Authors Index	205

The Papers Program

8:15-8:30 a.m., Wednesday Morning, November 16, 1994

Introduction

*Rob Buckley, Xerox Corporation and
Jeanne Wiseman, Hewlett-Packard Company*

8:30 a.m. - 12:05 p.m., Wednesday Morning, November 16, 1994

Color Science: Vision and Appearance

*Program Chairs: John McCann, Polaroid Coporation
and Bernice Rogowitz, IBM Corporation*

- 8:30 a.m. Invited Address: **Color Appearance in Images: Measurement and Musings**, *Brian A. Wandell and E. J. Chichilnisky, Stanford University, Stanford, California, USA* 1
- 9:10 a.m. **Scene Normalization Mechanisms in Humans**, *John J. McCann, Polaroid Corporation, Cambridge, Massachusetts, USA* 5
- 9:35 a.m. **Visual Evaluation and Evolution of the RLAB Color Space**, *Mark D. Fairchild, Rochester Institute of Technology, Rochester, New York, USA* 9
- 10:00 a.m. Coffee Break
- 10:30 a.m. Invited Address: **Epiphenomenom of Color in Visual Perception**, *A. P. Petrov, Russian Research Center, Kurchatov Institute, Moscow, RUSSIA* 14
- 11: 05 a.m. Invited Address: **Using Color in Computer Applications: A Psychophysical Perspective**, *Bernice Rogowitz, IBM Thomas J. Watson Research Center* 200
- 11:40 a.m. **Comparison of Color Difference Perception on Soft-Display Versus Hard-copy**, *King F. Choi, Eastman Kodak Company, Rochester, New York, USA* 18
- 12: 05 p.m. to 2:30 p.m. Lunch Break
- 2:30 p.m. - 6:10 p.m., Wednesday Afternoon, November 16, 1994
- ## Color Measurement and Calibration
- Program Chairs: Louis Silverstein, VCD Sciences, Inc.
and William Cowan, University of Waterloo*
- 2:30 p.m. Invited Address: **A Historical Review of Measurement Techniques and Instrumentation for Characterizing the Colorimetric and Photometric Properties of Self-Luminous Displays and Other Output Devices**, *Justin Rennilson, Advanced Retro Technology, Inc., Sping Valley, California, USA* 22
- 3:10 p.m. **A Review of Sampling Effects in the Processing of Color Signals**, *H. J. Trussel, North Carolina State University, Raleigh, North Carolina, USA* 26
- 3:35 p.m. **Device Characterization Using Spline Smoothing and Sequential Linear Interpolation**, *Ian E. Bell and William Cowan, University of Waterloo, Waterloo, Ontario, CANADA* 29e
- 4:00 p.m. Coffee Break

4:30 p.m.	When to Use Linear Models for Color Calibration , <i>Doran Sherman and Joyce E. Farrell, Hewlett-Packard Laboratories, Palo Alto, California, USA</i>	33
4:55 p.m.	Realization of Color Constancy Using the Dichromatic Reflection Model , <i>Shoji Tominaga, Osaka Electro-Communication University, Neyagawa, Osaka, JAPAN</i>	37
5:20 p.m.	Colorimetric Characterization of a Desktop Drum Scanner via Image Modeling , <i>Roy S. Berns and M. J. Shyu, Rochester Institute of Technology, Rochester, New York, USA</i>	41
6: 10 p.m.	A Comparison of Methods of Sensor Spectral Sensitivity Estimation , <i>Paul M. Hubel , Doron Sherman and Joyce E. Farrell, Hewlett-Packard Laboratories, Palo Alto, California, USA</i>	45

6:30 - 8:00 p.m. Conference Reception “Mexican Fiesta”

8:30 a.m. - Noon, Thursday Morning, November 17, 1994

Color Engineering

Program Chair: James King, Adobe Systems Inc.

8:30 a.m.	Invited Address: Systematic Processing of Color Images and Quantization Precision of ULCS , <i>M. Miyahara, Japan Advanced Institute of Science and Technology, Ishikawa, Japan</i>	49
9:10 a.m.	An International Standard for Color Facsimile , <i>Andrew H. Mutz and Daniel T. Lee, Hewlett-Packard Laboratories, Palo Alto, California, USA</i>	52
9:35 a.m.	Multigeneration Color Copying , <i>Martin Maltz and Raja Balasubramanian, Xerox Corporation</i>	54c
10:00 a.m.	Coffee Break	
10:30 a.m.	Invited Address: The Power of Spectral Data , <i>Rob Cook, Light Source, Inc.</i>	57
11:10 a.m.	Quality Measure of Color Scanning Filters , <i>Hiroaki Kotera, Matsushita Research Institute Tokyo, Inc., JAPAN</i>	58
11:35 a.m.	Color Transformations for Printer Color Correction , <i>Raja Balasubramanian, Xerox Corporation</i>	62

Noon to 2:30 p.m. Lunch Break

2:30 p.m. - 6:00 p.m., Thursday Afternoon, November 17, 1994

Building Color Systems

*Program Chairs: Jan Allebach, Purdue University
and David Travis, British Telecom Labs*

2:30 p.m.	Invited Address: Cross-Platform Image Fidelity , <i>Gerald M. Murch, Xerox Corporation, Palo Alto, California, USA</i>	65c
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3:10 p.m.	Accurate Color Reproduction of CRT - Displayed Images as Projected 35mm Slides , <i>Mark D. Fairchild, Roy S. Berns, Audrey A. Lester and Hae Kyung Shin, Rochester Institute of Technology, Rochester, New York, USA</i>	69
3:35 p.m.	Using Shepard's Interpolation to Build Color Transformation Tables , <i>Robert Rolleston, Xerox Corporation</i>	74
4:30 p.m.	Invited Address: Interactive Color Editing , <i>William F. Schreiber, Massachusetts Institute of Technology and Electronics for Imaging</i>	78a
5:10 p.m.	Efficient, Chromaticity-Preserving Midtone Correction for RGB Images , <i>James M. Kasson, IBM Almaden Research Center, San Jose, California, USA</i>	78c
5:35 p.m.	Color and Image Management for Telecommunication Applications , <i>James R. Sullivan, Eastman Kodak Company, Rochester, New York, USA</i>	85
6:00 to 8:00 p.m.	Dinner Break	
	8:00 - 10:00 p.m., Thursday Evening, November 17, 1994 Panel Discussion Color Imaging on the Information Superhighway <i>Moderator: James King, Adobe Systems Inc.</i>	N/A
	8:30 a.m. - 10:00 a.m., Friday Morning, November 18, 1994 Color Imaging Applications I <i>Program Chair: Yoichi Miyake, Chiba University</i>	
8:30 a.m.	Invited Address: Gamut Mapping: Squeezing the Most Out of Your Color System , <i>M. Wolski, Jan Allebach and C. A. Bouman, Purdue Univ.</i>	89
9:10 a.m.	Segmenting Color Images in the CIELUV Color Space , <i>R. Schettini, National Research Council, Milano, ITALY</i>	93
9:35 a.m.	Automatic Colour Correction , <i>Pekka Laihanen, Mikael Lindholm, Simo Rouhiainen, Hannu Saarelma and Lassi Tuuteri, Helsinki University of Technology, Finland; and Pekka Kekolahti, Grafimedi/ICL, FINLAND</i>	97
	10:00 a.m. - noon, Friday Morning, November 18, 1994 Poster Session <i>Program Chairs: Joann Taylor, Color Technology Solutions and Robert Buckley, Xerox Corporation</i>	
P1	A Dataflow Environment for Real-Time Image Processing Applications , <i>Terence Arden and Joseph Poon, Logical Vision Ltd., CANADA</i>	103
P2	Color Management Systems: Second Generation , <i>Jan De Clippeleer, Agfa Gevaert NV, Mortsel, BLEGIUM</i>	N/A
P3	Faithful Color Printing for Computer Generated Image Syntheses with Highly Saturated Component Inks , <i>A. Takaghi, Toru Ozek, Yoshinori Ogata and Sachie Minato, Toyota Motor Corporation, Aichi, JAPAN</i>	108

P4	Modeling Colour Refinement for Progressive Image Coding , <i>Anthony J. Maeder and Daniel M. Bell, Queensland Univ. of Technology, Brisbane, AUSTRALIA</i>	111c
P5	Brief Introduction of a New Color Measuring and Matching System , <i>Fengxiang Bai, Hua Zeng, Ningfang Liao, Jiangang Xiao and Hongfei Yu, Yunnan Normal University, Kuming, CHINA and Guo Lurong, Sichuan Union University, Chengdu, CHINA</i>	114
P6	A New Method for Calculating Textile Color-Recipe in Uniform Chromaticity Scale System , <i>Fengxiang Bai, Hua Zeng, Weiping Yang, Heling Shang, Yunnan Normal University, Kunming, CHINA and Guo Lurong, Sichuan Union University, Chengdu, CHINA</i>	116
P7	Restoration, Silver Halide, Digital - Which Stake? , <i>Hervé Bernard, Consultant, Paris, FRANCE</i>	119
P8	Device-Independent Color via Spectral Sharpening , <i>Mark S. Drew and Graham D. Finlayson, Simon Fraser University, Vancouver, British Columbia, CANADA</i>	121
P9	Reconstruction of Surface Spectral Reflectance using Characteristic Vectors of Munsell Colors , <i>Jae Kwon Eem and Hyun Duk Shin, Kum Oh National University of Technology and Seung Ok Park, Dae Jin Univ., KOREA</i>	127
P10	Color Image Enhancement Based on Land's Color Constancy Algorithm , <i>Jeong-Yeop Kim, Sung-Ho Bae, Eung-Joo Lee and Yeong-Ho Ha, Kyungpook National University, Taegu, KOREA</i>	131c
P11	Applications of Color Photography of Infrared Ray in Testing of Material Evidence , <i>Huang Qun, Liaoning College of Police Officials, Liujiqiao, Dalian, CHINA</i>	135
P12	Adjusting Simultaneous Contrast Effect for Dynamic Information Display , <i>Sugutu Ishizaki, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA</i>	137
P13	Optimal Filters for the Reconstruction and Discrimination of Reflection Curves , <i>M. Mahy, P. Wambacq, L. Van Eycken and A. Oosterlinck, Katholieke Universiteit Leuven, Leuven, BELGIUM</i>	140c
P14	CRT and Ink Jet Printer Models for Device Independent Color Reproduction in Image Transmission , <i>Gabriel Marcu and Satoshi Abe*, Array Corp., *Dept. of Information Science, University of Tokyo, Tokyo, JAPAN</i>	143
P15	Facial Pattern Detection and It's Preferred Color Reproduciton , <i>Demas Sanger, Takuya Asada, Hideaki Haneishi and Yoichi Miyake, Chiba University, Chiba, JAPAN</i>	149
P16	Analysis of the Eye Movements and its Applications to Image Evaluation , <i>Chizuko Endo, Takuya Asada, Hideaki Haneishi and Yoichi Miyake, Chiba University, Chiba, JAPAN</i>	153c
P17	CIELAB to CMYK Color Conversion by Prism and Slant Prism Interpolation Method , <i>Hideto Motomura, Teruo Fumoto, Osamu Yamada, Katsuhiro Kanamori and Hiroaki Kotera, Matsushita Research Institute Tokyo, Inc. , Tokyo, JAPAN</i>	156

P18	Why Do Measured Values Taken with Different Color Instruments Usually Differ? , <i>David L. Spooner, rhoMetric Associates</i>	159
P19	Usage of the Chameleon Accelerator for Color Transformations , <i>J. P. Van de Capelle and L. Plettinck, Barco Graphics (Belgium)</i>	165
P20	Color Imaging Using Variable Dot Thermal Wax Transfer , <i>J. A. Stephen Viggiano and Nathan M. Moroney, RIT Research Corporation</i>	167
P21	Communicating Color Appearance with the ICC Profile Format , <i>Scott Gregory, Robert Poe and Douglas Walker, Eastman Kodak Co.</i>	170
P22	A Color Vision System Using Density Profile of Human Cones/Rods , <i>Kazuo Yamaba, MITI, Yoichi Miyaki, Chiba University and Kazuhiko Kawamura, Vanderbilt Univ.</i>	175

Noon to 2:00 p.m.

Lunch Break

2:00 p.m. - 5:30 p.m., Friday Afternoon, November 18, 1994

Color Imaging Applications II

*Program Chairs: John Meyer, Hewlett-Packard Laboratories
and Ed Pariser, R.R. Donnelley & Sons Company*

2:00 p.m.	Invited Address: A Colour Reproduction Index , <i>Michael R. Pointer, Kodak Limited, ENGLAND and Robert Hunt, Color Consultant, ENGLAND</i>	180c
2:40 p.m.	Compositing Colour Images , <i>Binh Pham, Griffith University, Nathan, Brisbane, AUSTRALIA</i>	183
3:05 p.m.	Image Analysis Applied to Film Thickness Measurements with White Light Interferometry , <i>Olav Marklund and Lennart Gustafsson, Lulea University of Technology, Luleå, SWEDEN</i>	186
3:30 p.m.	Coffee Break	
4:00 p.m.	Invited Address: Putting Color Displays to Work , <i>David Travis, British Telecom Labs</i>	189c
4:40 p.m.	Color Matching of Projection CRTs in a Multi-Channel Simulator Display , <i>Celeste M. Howard and Steven J. Riedler, UDRI, Mesa, Arizona, USA</i>	193
5:05 p.m.	Color Imaging Endoscopy: Perspectives and New Directions , <i>Joann M. Taylor, Color Technology Solutions and Lawrence D. Picciano, ECRI</i>	196c

