

**Volume 24, Number 1, February 1999**

<b>About the Authors</b>	<b>1</b>
<b>In This Issue</b>	<b>2</b>
<b>Talking About Color</b>	
The Reconstruction of the Portrait of Albert H. Munsell <i>Douglas E. Corbin</i>	<b>4</b>
<b>Articles</b>	
The Role of Opponency in Twentieth Century Colorimetry <i>Henry Hemmendinger</i>	<b>6</b>
Predictions Based on Munsell Notation. I. Perceptual Color Differences <i>Tarow Indow</i>	<b>10</b>
Predictions Based on Munsell Notation. II. Principal Hue Components <i>Tarow Indow</i>	<b>19</b>
Hue Scale Adjustment Derived from the Munsell System <i>Rolf G. Kuehni</i>	<b>33</b>
Color Discrimination Results from a CRT Device: Influence of Luminance <i>M. Melgosa, M. M. Pérez, A. El Moraghi, and E. Hita</i>	<b>36</b>
A Comparative Study of a CRT Colorimetric Prediction Model by Neural Networks and the Models by Conventional Method <i>Liao Ningfang and Gao Zhiyun</i>	<b>45</b>
Color Reproduction and the Naturalness Constraint <i>S. N. Yendrikhovskij, F. J. J. Blommaert, and H. de Ridder</i>	<b>52</b>
<b>Meeting Report</b>	
Third Oxford Conference on Optical Spectrometry Jack A. Ladson	<b>66</b>
<b>News</b>	
Graham Receives ISCC's Nickerson Service Award	<b>72</b>
Billmeyer Receives Reinhart Award	<b>72</b>

**Volume 24, Number 2, April 1999**

<b>About the Authors</b>	<b>75</b>
<b>In This Issue</b>	<b>76</b>
<b>Articles</b>	
Geometric Relations between Scales of Small Colour Differences <i>Klaus Witt</i>	<b>78</b>
Dependence between Apparent Color and Extractable Color in Paprika <i>José M. Nieto-Sandoval, José A. Fernández-López, L. Almela, and José A. Muñoz</i>	<b>93</b>
Spectral-Based illumination Estimation and Color Correction <i>Reiner Lenz, Peter Meer, and Markku Hauta-Kasari</i>	<b>98</b>
Application of a Color-Appearance Model to Vision through Atmospheric Haze <i>Shudeish Mahadev and Ronald C. Henry</i>	<b>112</b>
Color-Appearance Reproduction: Visual Data and Predictive Modeling <i>Mark D. Fairchild and Garrett M. Johnson</i>	<b>121</b>
An Algorithm for the Selection of High-Contrast Color Sets <i>Paola Campadelli, Roberto Posenato, and Raimondo Schettini</i>	<b>132</b>
Spectral Sensitivities of the Normal Human Visual System, Color-Matching Functions and Their Principles, and How and Why the Two Sets Should Coincide <i>William A. Thornton</i>	<b>139</b>
<b>Meeting Report</b>	
29th Annual Meeting of the Color Science Association of Japan <i>Ellen C. Carter</i>	<b>157</b>
<b>Publications Briefly Mentioned</b>	
CIE Erythema Reference Action Spectrum and Standard Erythema Dose	<b>158</b>
<b>Forthcoming Meetings</b>	
Inter-Society Color Council Annual Meeting	<b>159</b>
<b>News</b>	
Munsell Color Science Laboratory Offers Industrial Short Courses	<b>160</b>

<b>About the Authors</b>	<b>161</b>
<b>In This Issue</b>	<b>162</b>
<b>Articles</b>	
Visual Determination of Hue Suprathreshold Color-Difference Tolerances Using CRT-Generated Stimuli <i>Ethan D. Montag and Roy S. Berns</i>	<b>164</b>
Inter-Observer Comparison of Color-Matching Functions <i>Claudio Oleari</i>	<b>177</b>
A New Method for Colour Measurements in Graphic Arts <i>A. Verikas, K. Malmqvist, L. Malmqvist, and L. Bergman</i>	<b>185</b>
Color Rendering, a Reassessment <i>C. van Trigt</i>	<b>197</b>
Optimization of Color Reproduction on CRT-Color Monitors <i>J. R. Jiménez, J. F. Reche, J. A. Díaz, L. Jiménez del Barco, and E. Hita</i>	<b>207</b>
<b>Communications and Comments</b>	
Some Comments on Using the CIECAM97s Colour-Appearance Model <i>Robert W. G. Hunt</i>	<b>214</b>
Some Additional Comments on CIECAM97 <i>John J. McCann</i>	<b>215</b>
Demystifying CIECAM97s: A Reply to Hunt <i>Michael H. Brill</i>	<b>217</b>
<b>Publications Briefly Mentioned</b>	
Practical Methods for the Measurement of Reflectance and Transmittance, CIE 130-1998	<b>218</b>
Proceedings of the First CIE Symposium on Lighting Quality, CIE x015-1998	<b>218</b>
Vision Research-International Colour Vision Group (ICVG) Special Issue	<b>218</b>
<b>Meeting Report</b>	
Report on the 67th Annual Inter-Society Color Council Meeting <i>Arnold M. Service and Jack Ladson</i>	<b>219</b>
<b>Forthcoming Meetings</b>	
Color in Its Surround, an Inter-Society Color Council Panchromatic Conference	<b>222</b>
CIE Symposium '99-75 Years of CIE Photometry	<b>222</b>
International Colour Vision Group XVth Meeting	<b>223</b>
<b>News</b>	
Calvin McCamy Receives ISCC Godlove Award	<b>224</b>

**About the Authors** 225

**In This Issue** 226

**Talking About Color** 227

**Articles**

Colour Combination Effects in Experimental Rooms  
*Monica Billger* 230

Digital Video Colourmaps for Checking the Legibility of Displays by  
Dichromats  
*Francoise Viénot, Hans Brettel, and John D. Mollon* 243

Towards an Improved Uniform Color Space  
*Rolf G. Kuehni* 253

Principal Hue Curves and Color Difference  
*Tarow Indow* 266

Color Gamut Mapping Based on a Perceptual Image Difference Measure  
*Shigeki Nakauchi, Satoshi Hatanaka, and Shiro Usui* 280

**Color Forum**

Calculation of CIELAB Hue Difference Adjustment Factors from an Ideal  
Hue Circle  
*Rolf G. Kuehni* 292

**Communications and Comments**

Corresponding-Colour Datasets  
*M. Ronnier Luo and Peter A. Rhodes* 295

**Book Reviews**

Handbook of Color Science [Second Edition], edited by The Color Science  
Association of Japan  
*Tarow Indow* 297

Measuring Colour, 3rd Ed., by Dr. R. W. G. Hunt  
*Ann Laidlaw* 299

Perceptual Constancy: Why Things Look As They Do, edited by Vincent  
Walsh and Janusz Kulikowski  
*Michael H. Brill* 300

**Meeting Report**

Sixth Color Imaging Conference: Color Science, Systems and Applications  
*Danny C. Rich* 303

*News*

ISCC Honors Luke, Hemmendinger, and Rich 308

**Volume 24, Number 5, October 1999**

<b>About the Authors</b>	<b>311</b>
<b>In This Issue</b>	<b>312</b>
<b>Articles</b>	
Visual Comfort to Colored Images Evaluated by Saturation Distribution <i>Ken Sagawa</i>	<b>313</b>
New Metamers for Assessing the Visible Spectra of Daylight Simulators and a Method of Evaluating Them <i>C. S. McCamy</i>	<b>322</b>
Investigation of Parametric Effects Using Small Colour Differences Shing-Sheng Guan and M. Ronnier Luo	<b>331</b>
A Colour-Difference Formula for Assessing Large Colour Differences <i>Shing-Sheng Guan and M. Ronnier Luo</i>	<b>344</b>
Investigation of Parametric Effects Using Large Colour Differences <i>Shing-Sheng Guan and M. Ronnier Luo</i>	<b>356</b>
The Effect of Gloss on Color <i>Edul N. Dalal and Kristen M. Natale-Hoffman</i>	<b>369</b>
Contribution to the Experimental Review of the Colorimetric Standard Observer <i>F. Pérez-Ocón, E. Hita, L. Jiménez del Barco, and J. L. Nieves</i>	<b>377</b>
<b>Book Reviews</b>	
Color Technology in the Textile Industry <i>Kevin Loughrey</i>	<b>389</b>
Prismatic II: A Visual Display of Measured Color Difference <i>Ellen C. Carter</i>	<b>389</b>
<b>Erratum</b>	
Demystifying CIECAM97s: A reply to Hunt <i>Michael H.</i>	<b>390</b>