

ICC Spectral Imaging Experts' Day

September 9, 2024 Gjøvik, Norway NTNU

ICC Mission Statement

Create, promote and encourage evolution of an open, vendor-neutral, cross-platform colour management system architecture and components



Founding Members

Adobe Systems Incorporated Agfa-Gevaert N.V.
Apple Computer, Inc.
Eastman Kodak Company FOGRA-Institute (Honorary) Microsoft Corporation Silicon Graphics Inc.
Sun Microsystems, Inc.
Taligent, Inc.



Today's ICC

55 international members.

11 Steering Committee meetings per year.

Regular ICC events in multiple countries.

3 full meetings per year on 3 different continents.

1 organization supporting industrial color interchange standards.

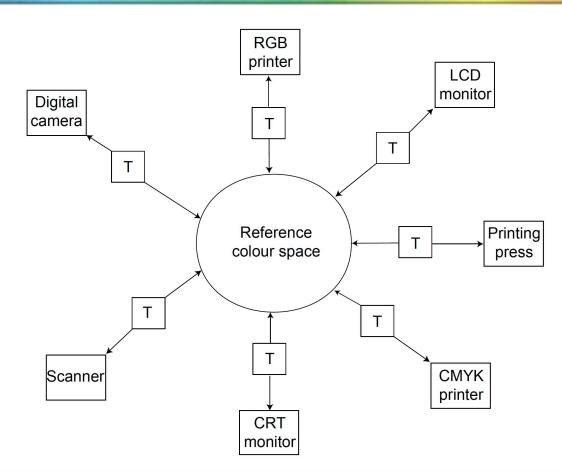


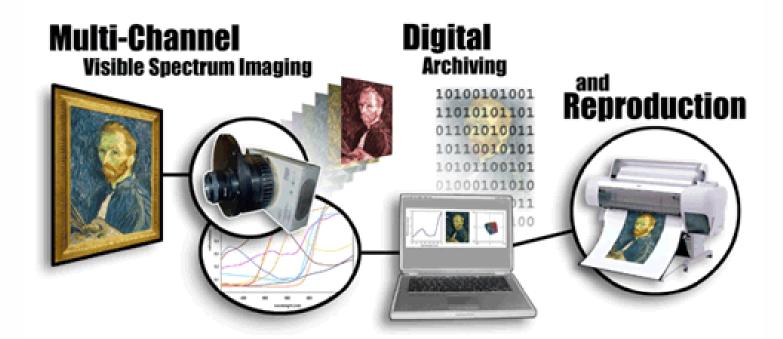
Join ICC!

- Active work areas:
 - —Packaging & Graphic Arts
 - —Display
 - —Architecture
 - —HDR
- Network:
 - —Active companies
 - —Color scientists
- Look ahead:
 - —Confluence of standards organizations



SPECTRAL IMAGING





Challenges

- People are squishy
- Data is big
- World is broad
- Time is money



Today's Agenda

Spectral imaging research at Colourlab	Jon Hardeberg, NTNU
Observer metamerism and wide-gamut displays	Chris Bai, BenQ
Colour matching functions	Andrew Stockman, University College London
Measuring individual differences in colour-matching functions	Luvin Ragoo, NTNU
Correcting displays for individual differences in color appearance	Camilla Simoncelli, University of Nevada Reno
Comparing colour perception on LCDs with different backlights	You-Sheng Zhang, National Taiwan University of Science and Technology
New tools for spectral colour management	Ronnier Luo, Zhejiang University
Spectral imaging workflow	Max Derhak, Onyx Graphics
Non-linear image processing for hyperspectral images	Hilda Deborah, NTNU
Bidirectional reflectance capture and modeling	Aditya Sole, NTNU
Estimation of spectral reflectance from colorimetry	Tanzima Habib, NTNU
FILM2PAINT	Irina-Mihaela Ciortan, NTNU
Spectraklion: Recent developments in spectral filter array-based systems	Jean-Baptiste Thomas, Université de Bourgogne
Spectral imaging techniques in cultural heritage digitization	Dipendra Mandel, NTNU