The Venue

Located in far eastern Finland near the Russian border and 440 km northeast of Helsinki, the city of Joensuu—founded in 1848—is part of the North Karelia region of the country. This proximity to Russia informs the architecture, cuisine, arts, and history of the region. Located on the banks of the Pielisjoki River—Joensuu means "mouth of the river"—the city is surrounded by a plethora of lakes and kilometer after kilometer of pine and birch forests. This location affords participants the opportunity to explore a gorgeous part of the world seen by few. Interesting day trips—to the Orthodox Valamo Monastery or the scenic area of Koli.

The Joensuu campus of the University of Eastern Finland (www.joensuu.fi/englishindex.html; www.uef.fi/english/valikko/index_5.html) is home to more than 8,000 students. Their campus will be our home for CGIV2010. The campus facilities provide a pleasant environment in which to share research and network during the conference and lunches. A social program is being arranged that will take participants to some culturally interesting and enjoyable venues for further networking in a more relaxed environment—including the opportunity to experience a famous Finnish sauna!

Accommodations

A number of hotels around the city are being reserved for conference participants. All are within a 15 minute walk of the conference venue. These will be listed in the preliminary program, as well as made available on the conference website as information becomes available.

Getting to/from Joensuu

Travel to Joensuu can be a bit of a challenge, but with pre-planning various options are available. There is direct service to Joensuu on FinnComm (www.fc.fi/home.html) and Finnair (www.finnair.com) from Helsinki. You may also reach Joensuu by train (www.vr.fi).

MARK YOUR CALENDAR

June 14-18, 2010

CGIV 2010/MCS'10

Joensuu, Finland

CGIV 2010 Cooperating Societies

Applied Light and Colour Working Group of the Centre of the Hungarian Academy of Sciences, Veszprém (VEAB-AFSzMB)

The Color Group (Great Britain)

Comité Español del Color

Deutsche Gesellschaft für Angewandte Optik, DGaO

Finnish Colour Association

Flemish Innovation Centre for Graphic Communications VIGC

The French Color Imaging Group

German Society for Color Science and Application (DfwG)

Gruppo del Colore (Italian Color Group)

Inter-Society Color Council

The Royal Photographic Society of Great Britain

Swedish Colour Centre Foundation

Society for Imaging Science and Technology
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Springfield, VA 22151 USA
703/642-9090; 703/642-9094 (fax)

IS&T
imaging.org

CGIV 2010/MCS'10

5th European Conference on Colour in Graphics, Imaging, and Vision / 12th International Symposium on Multispectral Colour Science

University of Eastern Finland
Joensuu, Finland
June 14-18, 2010

Call for Papers

Abstract Deadline: November 15, 2009

www.imaging.org/conferences/cgiv2010/

UNIVERSITY OF EASTERN FINLAND 2010

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sponsored by the Society for Imaging Science and Technology
in cooperation with the University of Eastern Finland

The Conference

The Society for Imaging Science and Technology (IS&T) invites you to CGIV2010, the Fifth European Conference on Colour in Graphics, Imaging, and Vision, to be held in conjunction with MCS'10, the 12th International Symposium on Multispectral Colour Science. The meetings will take place June 14-18, 2010, at University of Eastern Finland in Joensuu.

CGIV2010 will cover a wide range of topics related to colour and visual information, while MCS will review the current state of the art and address major challenges and future directions in multispectral colour science. The single-track structure of the conference brings together technical talks from academia and industry and thereby provides an excellent forum for research scientists and engineers worldwide to discuss new ideas, present results, exchange research, and establish possible future collaborations in a forum emphasizing high-quality content. Newcomers will discover the scope of exciting colour-related research areas and be able to discuss ideas with world-renowned experts.

The program committee is currently soliciting high-quality submissions from researchers working in a broad range of colour related fields from industry, academia, and national and international standards communities. Conference topics—listed in detail inside this Call—include colour science, computational colour, colour in computer graphics, colour reproduction, colour vision/psychophysics, colour image quality, colour image processing, and multispectral colour science. CGIV2010 will include oral paper presentations, poster sessions, exciting workshops—a new feature (see inside)—and an industry exhibit. As in years past, submissions will be subject to a rigorous peer review. Technical Chairs for each specific area will lead a group of technical experts who will conduct the rigorous review.

—General Chairs Jussi Parkkinen and Timo Jääskeläinen, and

Program Chairs Theo Gevers and Alain Tremeau

Submission Procedures

Prospective authors are invited to submit a 6–8 page paper (~3600–5000 words) of original work to be presented at the conference. Papers should represent unpublished work, provide a clear indication of originality, contain new results, and include references to prior work. Papers may address any of the technical areas listed to the right, or any other topic closely related to those listed. All submissions will undergo a "double-blind review" to assure that the program provides significant, timely, and authoritative information.

ALL papers presented at the meeting will be published in the conference proceedings, indexed with various services, filed with the US Library of Congress, and made available as PDFs through the IS&T online library. Authors may propose either a 20-minute oral or an interactive discussion presentation format. This enables presenters to engage with other delegates in the mode best suited to their content and desires. Oral and interactive papers are considered of equal value and merit. Author's preference for presentation format will be honored as possible. The conference language is English.

To facilitate the rigorous double-blind review process (names of authors are not disclosed until the review is complete; reviewers remain anonymous) **authors are requested to place all identifying information on a separate cover sheet.** Electronic submissions are preferred; those without web access may contact IS&T for alternative submission methods. Each submission should include:

1. Preference for oral or interactive presentation
2. List of key words and classification of paper content using the suggested topics list at right
3. Complete author contact information: phone, fax, e-mail, and postal address

Deadline for submissions is November 15, 2009. Further details can be found at **www.imaging.org/conferences/cgiv2010/**. Those whose papers are accepted will receive instructions for preparation of the final manuscript by late January 2010. **Final papers are due by April 4, 2010.**

Technical Areas and Chairs

Art in Colour Imaging
Chair: Harald Arnkil, University of Art and Design Helsinki, Finland
- Colour in Printmaking
- Colour in Electronic and Media Art
- Digital Applications of Colour in Art

Colour Science
Chair: Alessandro Rizzi, Università degli Studi di Milano, Italy
- Colour Difference Equations
- Colour Measurement
- Colour Matching Functions
- Indices of Colour Inconstancy and Metamerism
- Uniform Colour Spaces
- Colour Appearance Models

Computational Colour
Chair: Ewert W. Bengtsson, Uppsala University, Sweden
- Colour in Pattern Recognition and Computer Vision (industrial inspection, recognition of skin colours, biometric, medical, and microscopy applications)
- Colour-Image Encoding and Compression
- Colour for Image Retrieval, Database Browsing, and Video Processing
- Colour Processing in Digital Cameras: Demosaicing, Stitching, Super Resolution and New Colour Imaging Technologies

Colour in Computer Graphics
Chair: TBA
- High Dynamic Range Images Rendering
- Appearance Modeling
- Appearance Prediction
- Perceptual Issues in Computer Graphics

Colour Reproduction
Chair: Roger D. Hersch, EPFL, Switzerland
- Colour Capture, Printing, Display, and Projection
- Device Calibration, Characterization and Modeling
- Gamut Mapping
- Digital Cinema

Colour Image Quality
Chair: TBA
- Standards, Colour Image Compression and Processing Quality Assessment
- Colour Video Compression
- Evaluation Methodologies for Assessment of Colour Imaging Equipment and Systems
- New Metrics and Human Visual System Models for Colour Imaging
- End-to-End Image Quality Assessment and Monitoring in Industrial Applications

Colour Vision/Psychophysics
Chair: David H. Foster, University of Manchester, UK
- Colour and Material Perception in Natural Images
- Colour Discrimination and Spatio-chromatic Interactions
- Colour Constancy
- Colour Memory and Colour Cognition

Colour Image and Video Processing
Chair: Faouzi Alaya Cheikh, Gjøvik University College, Norway
- Video Processing
- Pre-processing (normalization, etc.)
- Filtering (especially non-linear filtering) and Enhancement
- Segmentation (including performance evaluation of segmentation)
- Image Sequence Processing (temporal colour filters, tracking, etc.)
- Colour in Medical Image Processing

Multispectral Colour Science MCS'10
Chair: Juan Luis Nieves, University of Granada, Spain
- Spectral Image Capture, Processing, and Analysis
- Spectral Image Quality
- Spectral Image Visualization, Display, and Reproduction
- Spectral Optimization of Light Sources and Displays
- Spectral Image Applicationss

Colour Workshops

CGIV2010 will introduce a new conference feature: workshops. These workshops may take a number of forms, with the common goal of providing a forum for intensive, collaborative discussions (not lectures) and/or hands-on work about actual topics in colour science. Examples of workshop topics include:
- presentations by PhD students working on similar topics that are open for discussion/feedback
- experimental work organized through the campus color research laboratory, where participants learn, for example, to measure the spectral fluorescent of standard or supplied images, and do some basic analysis on them.

The goal is to create a structure and propose a topic that inspires discussion and interaction.

The committee is looking specifically for workshops that will be attractive to PhD students and young researchers. To suggest a workshop, please contact Workshop Chair Jarkko Mutanen at jarkko.mutanen@joensuu.fi.

Tentative Conference Program

Monday, June 14
Workshops

Tuesday, June 15
- CGIV Technical Sessions
- Interactive Papers
- Welcome Reception

Wednesday, June 16
- CGIV Technical Sessions
- Interactive Papers and Exhibit

Thursday, June 17
- CGIV Technical Sessions
- MCS'10 Technical Sessions
- Conference Banquet

Friday, June 18
- MCS'10 Technical Sessions

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