

The Venue

Leeds is one of the most vibrant and successful cities in Great Britain, with thriving finance, business service, and retail sectors. It is also the fastest growing city in the United Kingdom and, with a population of approximately 750,000, is the third largest after London and Birmingham. Prestigious travel magazines have recently nominated Leeds a top UK city and praised it for having a “good optimistic feel.”

Leeds’s colourful past is embraced by the invigorating and dynamic future vision for the city. Rapid industrial growth during the nineteenth century transformed a successful town into a thriving metropolis. Leeds Town Hall—one of the finest civic buildings in Britain—the Grand Theatre, St Paul’s House, elegant arcades, and numerous other examples of Victorian, Edwardian, and Georgian architecture are monuments to the city’s sustained prosperity. Much of its heritage has recently been lovingly restored and preserved, as witnessed by the attractive renovations of the Corn Exchange, Victoria Quarter, County Arcade, and Leeds Market Buildings.

The University of Leeds is acclaimed world-wide for the quality of its teaching and research. One of the largest universities in the UK, an emphasis on innovative research, investment in high-quality facilities, and first-rate infrastructure means that the majority of the departments are rated “excellent” both nationally and internationally. The University is now rated amongst the top ten in the UK for research and is internationally acknowledged as a centre of excellence in a wide range of academic and professional disciplines, including the Department of Colour and Polymer Chemistry and the Schools of Design, Computing, and Electronic and Electrical Engineering.

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CGIV 2006

3rd European Conference
on Colour in
Graphics, Imaging, and
Vision

University of Leeds
United Kingdom
June 19-22, 2006

Call for Papers

Deadline: November 1, 2005



imaging.org

Sponsored by the Society for Imaging Science and Technology

The Conference

The Society for Imaging Science and Technology (IS&T) invites you to CGIV 2006, the Third European Conference on Colour in Graphics, Imaging, and Vision to be held at the University of Leeds, UK, June 19-22, 2006. CGIV 2006 will cover a wide range of topics related to colour and visual information. Its single-track structure will encompass technical areas that strike a balance between academia and industry.

CGIV 2006 builds on the success of two previous conferences—CGIV 2002 (Poitiers, France) and CGIV 2004 (Aachen, Germany)—and will provide an excellent forum for research scientists to discuss new ideas, exchange results, and establish possible future collaborations in a forum emphasizing high-quality content and presentations. Newcomers will discover the scope of exciting colour-related research areas and be able to discuss ideas with world-renowned experts.

We are 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 include colour science, computational colour, computer graphics, colour vision/psychophysics, colour image processing, and multispectral imaging. Colour reproduction and image quality—both in fundamental research and in the application of academic results to industrial practices—are two new technical areas that have been added to this year’s meeting. CGIV 2006 will include oral paper presentations, poster sessions, exciting tutorials, and an industry exhibit.

Unlike the past two conferences, Technical Chairs have been identified for specific areas. Each Chair will lead a small group of technical experts who will conduct a rigorous peer review of all submitted papers. All accepted papers will be published in the *CGIV 2006 Conference Proceedings*.

Submission Procedures

Prospective authors are invited to submit papers for presentation in the technical areas listed to the right. A 2–3 page technical summary (1000+ words) indicative of the final paper content will be reviewed by the Programme Committee when submitted by November 1, 2005. Further submission details can be found at www.imaging.org/conferences/cgiv2006/. Authors should indicate whether they would prefer to present their work as an oral paper or poster; however, the final decision on the type of presentation is at the discretion of the Technical Programme Committee.

A robust review process will be carried out. Names of authors will not be disclosed until the review is completed and reviewers will remain anonymous. To achieve this, authors are requested to place all identifying information on a separate cover sheet that can be removed before the paper is made available to the committee. Electronic submissions via the IS&T website are strongly preferred, but those without web access may phone +1 703/642-9090 or e-mail cgiv@imaging.org for alternative submission methods.

For each submission, the following information is required:

1. Preference for oral or poster presentation.
2. List of key words and a classification of the paper content as in the suggested topics.
3. Contact information for the author(s), including postal mail, phone, fax, and e-mail address.

Those whose abstracts are accepted will receive an author's kit with instructions for the preparation of the final paper, which will be published in the conference proceedings. Final papers are due by **February 3, 2006**. The conference committee also welcomes suggestions for tutorial presentations.

Authors of papers presented at CGIV 2006 may be invited to develop articles for special issues of the *Journal of Imaging Science and Technology* or the *Journal of Electronic Imaging*. More information can be found at the CGIV 2006 web site: www.imaging.org/conferences/cgiv2006/.

Keynote Speakers

Robert Hunt: Colour Science

Roger Hersch, EPFL: Colour Reproduction/Colour Image Processing

Jan Koenderink, Utrecht University: Human Perception

Technical Areas and Chairs

Colour Science (Roy Berns, RIT, USA)

- Colour Difference Equations
- Colour Measurement
- Colour Matching Functions
- Indices of Colour Inconstancy and Metamerism
- Uniform Colour Spaces
- Colour Appearance Models

Computational Colour (Reiner Lenz, Linköping University, Sweden)

- Colour in Pattern Recognition and Computer Vision (industrial inspection, recognition of skin colours, and 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 (Werner Purgathofer, TU Wien, Austria)

- High Dynamic Range Images Rendering
- Appearance Modelling
- Appearance Prediction
- Perceptual Issues in Computer Graphics

Colour Reproduction (Jan Morovic, Hewlett-Packard, Spain)

- Colour Capture, Printing, Display and Projection
- Device Calibration, Characterisation and Modelling
- Gamut Mapping
- Digital Cinema

Colour Vision/Psychophysics (Anya Hurlbert, University of Newcastle, UK)

- Colour and Material Perception in Natural Images
- Colour Discrimination and Spatio-chromatic Interactions
- Colour Constancy
- Colour Memory and Colour Cognition

Colour Image Quality (Christine Fernandez-Maloigne, University of Poitiers, France)

- Standards, Colour Image Compression and Processing Quality Assessment
- Colour Video Compression and Processing Quality Assessment
- Evaluation Methodologies for Assessment of Colour Imaging Equipment and Systems
- New Metrics and HVS Models for Colour Imaging
- End-to-End Image Quality Assessment and Monitoring in Industrial Applications

Colour Image Processing (Dietrich Paulus, University of Koblenz, Germany)

- Pre-processing (normalisation, 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 Imaging (Yoichi Miyake, Chiba University, Japan)

- Multispectral Cameras and Scanners
- Multispectral Displays
- Application to Medicine (skin colour, spectral endoscopes)
- Application to Digital Archives

Technical Programme Committee

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