The Venue

Nestled at the foot of Sant Llorenç del Munt Natural Park, surrounded by the forests and mountains of Catalonia, and located a short-train ride from Barcelona, Terrassa played a leading role in Spain's Industrial Revolution of the 19th century. Today Terrassa is more than just an industrial city. It is also a dynamic, university town with a rich artistic and historical heritage, where many factories, textile mills, and gems of Modernista architecture can be found. CGIV2008/MCS'08 will take advantage of this unique history and architecture by highlighting it through the location of the conference's technical sessions and social events.

The conference's technical sessions will take place in the main hall of the Technical University of Catalonia (Universitat Politècnica de Catalunya—UPC), a beautiful building in the Art Nouveau style. UPC's history starts at the beginning of the 20th century with the founding of the Industrial School; this institution provided qualified engineers and technicians for the textile industry. Since 1971, it has been the UPC, a public institution that offers a broad education at all degree levels in a range of technical, artistic, and humanistic fields, including industrial engineering, optics, sound and image technology, photography, business studies, multimedia studies, nursing, theatre, performing arts, cinematography and audio-visual studies, commerce, tourism, languages, and applied arts.

UPC is a proud sponsor of CGIV2008/MSC'08. The Centre for Sensors, Instruments, and Systems Development (CD6)—an institution within UPC—is hosting the event. CD6 (http://www.cd6.upc.es/) is a research centre whose purpose is to provide services to companies and to carry out technological innovation projects in the field of optical engineering. CD6 is active in colour technology research focused on colour imaging, multispectral imaging, and industrial colourimetry.

MARK YOUR CALENDAR

June 9-13, 2008

CGIV 2008/MCS'08

Terrassa, Spain

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CGIV 2008/MCS'08

4th European Conference on Colour in Graphics, Imaging, and Vision / 10th International Symposium on Multispectral Colour Science

Centre for Sensors, Instruments, and Systems Development (CD6)
Department of Optics and Optometry
Universitat Politècnica de Catalunya (UPC)

Terrassa – Barcelona, España
June 9-13, 2008

Call for Papers

Abstract Deadline: November 15, 2007

www.imaging.org/conferences/cgiv2008/

Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa
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The Conference

The Society for Imaging Science and Technology (IS&T) invites you to CGIV'2008, the Fourth European Conference on Colour in Graphics, Imaging, and Vision, and MCS'2008, the 10th International Symposium on Multispectral Colour Science, to be held at the Technical University of Catalonia, Terrassa – Barcelona (Spain) June 9-13, 2008.

CGIV2008 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 will encompass technical areas that strike a balance between academia and industry. CGIV2008 builds on the success of three previous conferences; MCS (www.multispectral.org) has been organized since 1999, mainly incorporated into larger international conferences, to their mutual benefit, as in CGIV2004/MCS'04.

The conferences will provide an excellent forum for research scientists and engineers from all over the world to discuss new ideas, present results, exchange research, 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—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. CGIV 2008 will include oral paper presentations, poster sessions, exciting tutorials, 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.

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 (max. 1000 words) indicative of the final paper content will be reviewed by the Programme Committee when submitted by November 15, 2007. Further submission details can be found at **www.imaging.org/ conferences/cgiv2008/**. 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 rigorous review process will be carried out. Names of authors will not be disclosed until the review is completed; 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 reviewers. Electronic submissions are preferred, but those without web access may contact IS&T at +1 703 642 9090 for alternative submission methods.

For each submission, the following 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 CGIV2008 Conference Proceedings. **Final papers are due by March 23, 2008**.

The conference committee also welcomes suggestions for tutorial presentations. Please contact Changjun Li (c.li@leeds.ac.uk) or Francisco Martinez Verdu (verdu@ua.es). Companies interested in exhibiting should contact Jaume Castella (castella@oo.upc.edu).

Technical Areas and Chairs

Colour Science (Chair: Joaquín Campos Acosta, CSIC, Spain)
- Colour Difference Equations
- Colour Measurement
- Colour Matching Functions
- Indices of Colour Inconstancy and Metamerism
- Uniform Colour Spaces
- Colour Appearance Models

Computational Colour (Chair: Reiner Lenz, Linköping 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: Werner Purgathofer, Tu Wien, Austria)
- High Dynamic Range Images Rendering
- Appearance Modelling
- Appearance Prediction
- Perceptual Issues in Computer Graphics

Colour Image Quality (Christine Fernandez-Maloigne, University of Poitiers, France)
- 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 Reproduction (Jan Morovic, Hewlett-Packard Española, Spain)
- Colour Capture, Printing, Display, and Projection
- Device Calibration, Characterisation and Modelling
- Gamut Mapping
- Digital Cinema

Colour Vision/Psychophysics (Chair: Sergio Nascimento, University of Minho, Portugal)
- Colour and Material Perception in Natural Images
- Colour Discrimination and Spatio-chromatic Interactions
- Colour Constancy
- Colour Memory and Colour Cognition

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 Colour Science MCS'08 (Chair: Javier Hernández-Andrés, University of Granada, Spain)
- Spectral-based Processing and Applications
- Image Systems with more than 3 Spectral Channels
- Spectral Image Capture, Processing, and Analysis
- Spectral Image Quality
- Spectral Image Visualization, Display, and Reproduction
- Spectral Optimization of Light Sources and Displays
- Museum and Archive Applications
- Medical Applications
- Agriculture and Food Inspection Applications

Technical Programme Committee

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Moritz Stoerring, ICOS Vision Systems, Belgium
Shoji Tominaga, Chiba University, Japan
Alexander Wilkie, Vienna University of Tech., Austria

Tentative Conference At-a-Glance

Monday, June 9
Tutorials

Tuesday, June 10
- CGIV Technical Sessions
- Interactive Papers
- Terrassa City Tour and Welcome Reception

Wednesday, June 11
- CGIV Technical Sessions
- Interactive Papers and Exhibit
- Conference Banquet

Thursday, June 12
- CGIV Technical Sessions (morning)
- MCS Interactive Papers and Exhibit
- MCS'08 Technical Sessions (afternoon)
- Town Hall Reception

Friday, June 13
- MCS'08 Technical Sessions

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