

Computers & Graphics Journal

Special Edition on High Dynamic Range Imaging

CALL FOR PAPERS

Papers are invited for a Computers & Graphics journal Special Edition on High Dynamic Range Imaging. This special edition seeks contributions which are based on technical aspects related to the capture, storage, processing and display of High Dynamic Range content.

High Dynamic Range (HDR) imagery has enabled the handling of content that supports real world luminance. This has created a step change in imaging technologies which were previously limited to a fixed and reduced dynamic range which was unable to represent real-world lighting. HDR still has challenges to overcome before it can become a fully-fledged commercial technology. It is still not possible to capture HDR data, particularly video, in a straightforward manner; once it is captured the number of storage, compression and streaming algorithms are limited; and the display technology has still not achieved its full potential. The applications for HDR also vary widely, and some aspects such as Image-based Lighting have garnered a lot of support, but other interesting applications are sure to exist and yet to be brought into the limelight.

In this CFP we invite researchers and professionals that work with imaging technologies to submit papers that will project HDR forward to meet and overcome the current challenges and limitations. We invite work related to but not limited to:

- The capture of HDR video and still images
- The storage, compression and streaming of HDR content
- Display of HDR content on LDR and HDR displays
- Generation of HDR content from LDR content
- Creation of novel HDR displays
- Image-based lighting
- Applications of HDR
- User studies which establish limits for HDR methods (capture, storage, display)
- The extension of HDR to other imaging technologies

The Special Edition on High Dynamic Range Imaging editors are: **Kurt Debattista** from the University of Warwick (UK) and **Luís Paulo Santos** from the University of Minho (Portugal) – see short CVs below.

IMPORTANT DATES

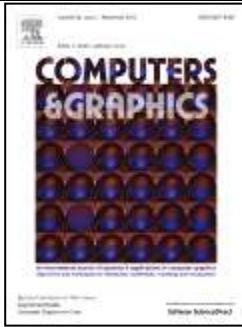
Submissions:	Friday, 1 st March, 2013
Decision on Submitted papers:	Tuesday, 16 th April, 2013
Revised papers due:	Friday, 16 th May, 2013
Final Notifications to Authors due:	Monday, 6 th July, 2013
Accepted papers due:	Wednesday, 31 st July, 2013
Publication:	November 2013

SUBMISSION INSTRUCTIONS

Computers & Graphics is an Elsevier publication. For paper formatting and submission instructions please refer to <http://ees.elsevier.com/cag>.

You will have to register/log on to EES in order to be able to submit your paper. When prompted to specify the article type, you have to select: "**Special Sect: High Dynamic Range Imaging**". Papers will be reviewed by at least three external reviewers.

For further details please refer to: <http://gec.di.uminho.pt/psantos/HDR>



In recent years the Impact of the **Computers and Graphics** journal has been increasing as recognition of the relevance of its publications both to the readership and the community it serves. This, coupled with its rigorous review process, emphasis on quality and fast turnaround time, makes it one of the premier venues to publish late-breaking results and quality work in Interactive Computer Graphics and related disciplines.

GUEST EDITORS

Kurt Debattista is an Associate Professor at the University of Warwick. He has a PhD in Computer Science from the University of Bristol, an MSc in Computer Science and BSc in Mathematics and Computer Science from the University of Malta.

He has published over 70 papers in journals and international conferences on high-fidelity graphics, parallel computing and HDR imaging. He is a co-author of a book on HDR imaging. He is also Technical Director of goHDR.

Luís Paulo Santos is an Auxiliar Professor at the Universidade do Minho, Portugal. He published several papers on both computer graphics and parallel processing on international conferences and journals.

He manages several nationally funded graphics R&D projects and participates in several European projects with both academia and industry. He is a member of the Direction Board of the Portuguese chapter of Eurographics since 2008.