

CALL FOR PAPERS

3DTV CONFERENCE 2008

THE TRUE VISION

CAPTURE, TRANSMISSION AND DISPLAY OF 3D VIDEO

28-30 MAY 2008, HOTEL DEDEMAN, ISTANBUL, TURKEY

General Co-Chairs:

Uğur Güdükbay, Bilkent University, TR

A. Aydın Alatan,
Middle East Technical University, TR

Advisory Board:

Jörn Ostermann,
Leibniz University of Hannover, DE

Aljoscha Smolic,
Fraunhofer Gesellschaft, DE

A. Murat Tekalp, Koç University, TR

Levent Onural, Bilkent University, TR

John Watson, University of Aberdeen, UK

Thomas Sikora,
Technische Universität Berlin, DE

Finance Chair:

Tank Reyhan, Bilkent University, TR

Publication Chair:

Tolga K. Çapın, Bilkent University, TR

Publicity Chairs:

Georgios Triantafyllidis,
Centre for Research & Technology, GR

Gözde Bozdağı Akar,
Middle East Technical University, TR

Industry Liaison:

Ismo Rakkolainen, FogScreen, FI

Matt Cowan, RealD, USA

American Liaison:

Kostas Danilidis,
University of Pennsylvania, USA

Far East Liaison:

Kiyoharu Aizawa, University of Tokyo, JP

Jinwoong Kim,
Electronics & Telecommunications Research
Institute, KR

Special Sessions and

Tutorials Chairs:

Atanas Gotchev,
Tampere University of Technology, FI

Webmasters:

Engin Türetken,
Middle East Technical University, TR

Onur Önder,
Bilkent University, TR

Following the conference of 2007, the second 3DTV Conference will be held in Istanbul, Turkey in May, 2008. The aim of 3DTV-Con is to bring researchers from different locations together and provide an opportunity for them to share research results, discuss the current problems and exchange ideas.

The conference involves a wide range of research fields such as capturing 3D scenery, 3D image processing, data transmission and 3D displays. You are cordially invited to attend 3DTV-Con 2008 and submit papers reporting your work related to the conference themes listed below.

The conference will host the following keynote speakers:

- Bahram Javidi, University of Connecticut, USA
- Marc Pollefeys, ETH Zurich, Switzerland / University of North Carolina at Chapel Hill, USA
- Anthony Vetro, Mitsubishi Electronic Research Laboratories, USA

Conference Topics

3D Capture and Processing:

- 3D time-varying scene capture technology
- Multi-camera recording
- 3D photography algorithms
- Dense stereo and 3D reconstruction
- Synchronization and calibration of camera arrays
- 3D view registration
- Multi-view geometry and calibration
- Holographic camera techniques
- 3D motion analysis and tracking
- Surface modeling for 3D scenes
- Multi-view image and 3D data processing
- Integral imaging techniques

3D Transmission:

- Systems, architecture and transmission in 3D
- 3D streaming
- Error-related issues and handling of 3D video
- Hologram compression
- Multi-view video coding
- 3D mesh compression
- Multiple description coding for 3D
- Signal processing for diffraction and holographic 3DTV

3D Visualization:

- 3D mesh representation
- Texture and point representation
- Object-based representation and segmentation
- Volume representation
- 3D motion animation
- Stereoscopic display techniques
- Holographic display technology
- Reduced parallax systems
- Underlying optics and VLSI technology
- Projection and display technology for 3D videos
- Integral imaging techniques
- Human factors

3D Applications:

- 3D imaging in virtual heritage and virtual archaeology
- 3D teleimmersion and remote collaboration
- Augmented reality and virtual environments
- 3D television, cinema, games and entertainment
- Underlying Technologies for 3DTV
- Medical and biomedical applications
- 3D content-based retrieval and recognition
- 3D watermarking

Paper Submission

Contributors are invited to submit full papers electronically using the online submission interface, following the instructions at <http://www.3dtv-con.org>. Papers should be in Adobe PDF format, written in English, with no more than four pages including figures, with a font size of 11. Conference proceedings will be published online by IEEE Xplore.

Important Dates

Special sessions and tutorials proposals deadline:	14 December 2007
Regular paper submission deadline:	22 January 2008
Notification of paper acceptance:	29 February 2008
Camera-ready paper submission deadline:	21 March 2008
Conference:	28-30 May 2008

Sponsors



3DTV Network
of Excellence



Bilkent
University



Middle East
Technical University



Information
Society
and Electronics
Technologies



Institute of Electrical
and Electronics
Engineers



Turkish Research and
Business
Organizations AISBL



European Association
for Signal and
Image Processing



MPEG
Industry
Forum



BEKO
Electronics Corp.



VESTEK
R&D Corp.



Insight Media



Mars
Entertainment
Group



Garanti
Teknoloji