

## | FACTS

### Topic:

High Dynamic Range Rendering

Duration: August 20 - September 1, 2012

Application deadline: May 15, 2012

Working language: English

### What you get:

- A combination of interesting lectures, workshops, case studies and framework program, such as guided tours to our cultural favorites and cities.
- Excellent learning conditions: small group of 16 students, state-of-the-art computer lab
- 4 ECTS credits (official certificate awarded after successful completion of the course)
- Two weeks in one of the most beautiful regions of Germany, nearby the international city of Frankfurt.
- The opportunity to meet interesting people from all over the world.

### What you give:

- 400 € / p.P. for international students
- 200 € / p.P. for students from partner institutions and local students (enrolled at THM)

### The fee covers:

- housing: you can choose between a single room in a host family, student dormitory or a shared apartment
- breakfast and lunch at the university cafeteria („Mensa“)
- excursions and social events which are part of the program

Travel costs to and from Friedberg are NOT included



## Contact and Information

Technische Hochschule Mittelhessen  
University of Applied Sciences

### Application

THM International Office – Auslandsreferat  
Robbin Bastian  
Wiesenstrasse 14  
35390 Giessen  
Germany  
☎ +49 641/309-1328  
Robbin.Bastian@admin.thm.de

### Course leader

THM Department MND  
Prof. Dr. Cornelius Malerczyk  
Wilhelm-Leuschner-Strasse 13  
61169 Friedberg  
Germany  
☎ +49 6031/604-426  
Cornelius.Malerczyk@mnd.thm.de

<http://www.thm.de/mnd/emedia/>



## E.MEDIA 2012

■ International  
Summer School on  
Media Informatics and  
Computer Graphics

August 20 - September 1, 2012  
Friedberg | Germany

# E.MEDIA 2012

## | Welcome

Welcome to e.media 2012, the third International Summer School on Media Informatics and Computer Graphics. It will be held in Friedberg, Germany, a historical town located in a beautiful area, about 30 minutes outside of the international city of Frankfurt, organized by the TH Mittelhessen University of Applied Sciences

## | Topic

High Dynamic Range Rendering (HDRR) is an exciting computer graphics technique, often used for producing advertisement and movies. HDRR is the rendering of 3d virtual scenes by using real photographs for the lighting calculations. This allows the creation of extremely realistic looking renderings.

Sometimes also called High Dynamic Range Lighting, HDRR is a special Image Based Lighting (IBL) technique in computer graphics to illuminate a virtual scene. It uses images with a wide dynamic range of luminances instead of standard light shapes such as point lights, area lights and spot lights.

During two weeks of lectures, practical laboratory work and excursions e.media 2012 will cover both theory and practice of all aspects of High Dynamic Range Rendering including:

- story boarding and taking photographs,
- creation of HDR images,
- image based lighting of 3d virtual scenes and rendering.



## | Location

The Technische Hochschule Mittelhessen University of Applied Sciences (formerly FH Giessen-Friedberg University of Applied Sciences) is renowned for future oriented degree programmes in Engineering and Business Administration. "Innovation based on tradition" is our motto. The university was founded in 1971. However its roots reach back into the 19th and early 20th century, when schools for engineering were established in both campus cities Giessen and Friedberg.

Today the classical disciplines like Civil Engineering, Electrical or Mechanical Engineering are offered alongside progressive programmes like Energy Systems, Biotechnology, Media Engineering, Business Administration and Computer Science.

The cities of Giessen and Friedberg are situated in the Rhine-Main-Region close to the economic centre and international airport Frankfurt. The two university-locations combine the amenities of small and middle sized cities with lots of green spaces in the cities and a wonderful landscape just outside your door-step.e.media 2012 will be held in Friedberg, a town of 28.000 inhabitants, where about 5.500 of our students are educated. The international city of Frankfurt can be reached in less than 30 minutes by public transportation. Friedberg is very popular with tourists, as you can discover a beautiful historic old town with the largest area of medieval castle-remains in Germany.

Read more about Friedberg and the THM at:  
<http://www.thm.de/international/>

## | Who can apply?

e.media 2012 particularly addresses all bachelor students in the upper semester levels of media informatics and related programs such as media design or media technology.

However, anyone may apply who is curious, committed and enthusiastic enough to learn more about the topic. Nevertheless, you should have good English skills and some basic experiences in photography and 3d modeling (Maya, 3ds Max, XSI or Blender).

## | How to apply?

You can find the application form at:  
<http://www.thm.de/mnd/emedial/>

Your full application consists of:

- Application form
- Short curriculum vitae

If you have already experience in one of the summer school topics HDR/ photography, panoramic photography and/or 3d modeling/rendering, please attach an example of your work (photo and/or rendering) with a short description.

Please send your application by email to:  
**[Robbin.Bastian@admin.thm.de](mailto:Robbin.Bastian@admin.thm.de)**

**Application deadline: May 15, 2012**

The applications will be reviewed after the application deadline. You will receive a response before May 30, 2012.

