

## Call for Papers

### Visualizations of Space: Concepts – Methods – Media

Graduate School „Topology of Technology“, TU Darmstadt

September 27 – October 1, 2010

Ebernbург, Germany

Deadline: June 30, 2010

Visualizations play a major role in researching space. Disciplines working with spatial data and researching spatial objects or dynamics use various media and presentation techniques to visualize aspects of space: spatial data is captured in tables, spatial relations are illustrated in diagrams, geographical information is presented spatially in maps, and spatio-temporal processes are represented in film. In addition to these "classical" means, digital information systems have recently become more important for the collection and evaluation of spatial data. Often, these types of visualizations serve merely to illustrate or demonstrate a scientific hypothesis; in some cases, an epistemic role is ascribed to them. Yet, the implications of using visualizations are seldom discussed openly and critically in the academic context.

The aim of this international Summer School is to explore the conditions of spatial visualization – technical, historical, social, epistemic etc. – in various fields and disciplines; the scope is wide and encompasses analog / digital, static / dynamic, and analog-depicting / logical-analytic kinds of image usage. One major focus will be on the complex interconnections between different ways of collecting, evaluating and representing spatial data, but we will also consider the potential of various ways of representing spatial processes for different applications.

The program includes plenary lectures by established scholars and scientists as well as project presentations by postgraduates on selected research questions, followed by group work with professors at the Darmstadt Graduate School "Topology of Technology" and external experts. Our goal is to apply a broad variety of spatial concepts – i.e., concepts that deal with the visualization and thus also the construction of space, place, and spatiality – to different fields of study, and to discuss their scope. These concepts may focus on philosophical or sociological contexts of space, or adopt an approach based, for example, on the psychology of perception, image studies, engineering science, or technology studies.

## Venue

The Summer School will be held at Tagungsstätte Ebernbург Castle, residence of the famous "Last Knight" Franz von Sickingen and beautifully located in Bad Münster am Stein-Ebernburg, a spa near Bad Kreuznach (in Rhineland-Palatinate).

"Evangelische Familienferien- und Bildungsstätte Ebernburg"

55583 Bad Münster am Stein-Ebernburg

Internet: [www.ebernburg.de](http://www.ebernburg.de)

## Dates of Event

September 27 – October 1, 2010

## Organizers

Graduate School „Topology of Technology“/ Graduiertenkolleg “Topologie der Technik”, TU Darmstadt

Prof. Dr. Josef Wiemeyer

Prof. Dr. Bernt Schiele

Dr. Dorit Müller

## Target audience

The conference is targeted at advanced postgraduates with expertise in areas within the scope of the Summer School. The (planned) dissertation project should be focused on concepts of "space", but will also cover questions regarding methods of representation. The conference language is English.

## Teachers

The courses will be taught by teachers from Germany and the United States, representing various disciplines:

- Robert Kosara, Department of Computer Science, University of North Carolina at Charlotte, USA
- Lothar Krempel, Max Planck Institute for the Study of Societies Cologne, Germany
- Maximilian Schich, Northeastern University, Boston, USA
- Bernt Schiele, Max Planck Institute of Computer Science, Saarbrücken, Germany
- Josef Wiemeyer, Institute of Sport Science, TU Darmstadt, Germany

Most of the teachers will be present throughout the entire week. In addition to giving a plenary lecture, they will take part in the presentations of the individual PhD projects as well as being available for group discussions.

## Keynote Speeches

- Robert Kosara (Charlotte/North Carolina): Visual Metaphors
- Lothar Krempel (Cologne): Network Topographies and Geographical Space
- Maximilian Schich (Boston): Complexity of Space Documentation. Ambiguity, Heterogeneity and Dynamics
- Bernt Schiele (Saarbruecken): GIS and Future Studies
- Josef Wiemeyer (Darmstadt): Visualization in Learning Context

## Panels:

- Theories of Space and Network Metaphors
- Visualization – Information – Learning/Perception
- Mapping as a Process of Constituting Space
- Visualization as Power Factor in Appropriations of "Other" Spaces
- Emergence and Visualization of New Logics of Space by and in Air Transportation

## Fees

Attendees will be charged a fee to cover costs (including meals and accommodation):

€250 double, €280 single.

Travel costs are not covered, however, a small number of grants is available to qualified and needy students. We offer child-care services free of extra charge.

#### Deadline

Please send your proposal, including an outline of your dissertation project and the reasons why you want to attend the Summer School, by June 30, 2010.

#### Contact

Dr. Dorit Müller ([dmueller@ifs.tu-darmstadt.de](mailto:dmueller@ifs.tu-darmstadt.de))