



TopoinVis 2007

International Workshop on Topology-Based Methods in Visualization

March 4-6, 2007

Kloster Nimbschen, near Leipzig

www.informatik.uni-leipzig.de/bsv/topoinvis07

Topology-based methods are of increasing importance in the analysis and visualization of all types of field data. Major application areas are fluid dynamics simulations, medical signals (e. g. DT-MRI, EEG, MEG) and dynamical systems. Other application areas are evolving as well. Current challenges of topology based analysis and visualization methods are e. g. unsteady data, large data, multiple fields and the relation to application-specific features. While we see an increasing number of research results in the area, we want to encourage further effort in the field and bring together specialists from all countries.

The workshop follows the successful workshop TopoinVis 2005 in Budmerice. It will be held in an open atmosphere of informal discussions, open exchange and personal interaction.

Paper submissions are invited from the following areas in visualization:

- topology-based visualization and computational topology
- topology of scalar, vector and tensor fields
- topology of (un)stationary surfaces and stable manifolds
- vortex, shock and separation structures
- analysis of dynamical systems and physical flows
- discrete vector fields and differential forms
- topology- and feature-based visualization
- applications of topology-based visualization

Submissions are peer-reviewed before the workshop. All accepted papers must be presented at the workshop. A selection of the papers are invited for a book publication by Springer Verlag.

Important dates:

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| Abstract | 10. Nov. 2006 |
| Paper | 24. Nov. 2006 |
| Notification | 14. Jan. 2007 |
| Camera-Ready | 14. Apr. 2007 |

Organization and Program Chairs:

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|---------------------|----------------------------|
| Hans-Christian Hege | (Zuse Institut Berlin) |
| Konrad Polthier | (Freie Universität Berlin) |
| Gerik Scheuermann | (Universität Leipzig) |