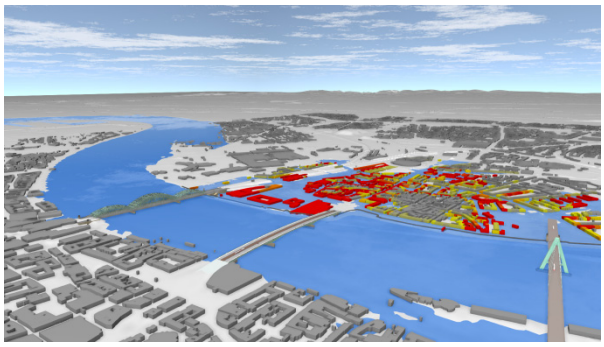
# Open PhD Position in Real-time Rendering and 3D-Visualization, Vienna, Austria

The VRVis Research Center (www.vrvis.at) offers a PhD position in the field of real-time rendering and visualization of geo-spatial simulation data.



In the project *Scenario Pool: Visual Analytics for Action Planning in the Presence of Uncertainty* (http://visdom.at/projects/scenariopool/), funded by the Vienna Science and Technology Fund WWTF, we will investigate visualization techniques to support decision making. Our work is based on the simulation and analysis of alternative scenarios using state-of-the-art techniques for flood simulation, traffic simulation, or pedestrian simulation. The results have to be rendered in a dedicated 3D-view conveying information about multiple time steps in multiple scenarios. To accomplish this, we require an efficient combination of realistic rendering with abstract techniques from visualization.

The research will be incorporated into the Visdom (http://visdom.at) framework, which is being jointly developed by the VRVis and our partners at the TU Vienna and the ETH Zürich. Scientific supervision will be done by Dr. Jürgen Waser, VRVis, in collaboration with Prof. Eduard Gröller, Institute of Computer Graphics and Algorithms (ICGA), TU Vienna. We provide a stimulating and enjoyable working environment in a competitive, internationally oriented research institution.

We are looking for a highly motivated young scientist who is interested in rendering and in contributing cutting-edge solutions to Visdom. The minimum salary, as stated in the Collective Bargaining Agreement for Employees of Companies in the Service Sector for Automated Data Processing and Information Technology and according to the classification scheme, is EUR 2,115.00 gross/month (14 times per year) and can be modified according to the applicant´s qualification.

**Applicants must have a master in computer science, mathematics, physics or a similar field and should fulfill most of the following requirements:**

- Expertise in C++, OpenGL and GLSL
- Good skills in software engineering
- Good knowledge of English in speaking and writing; German is appreciated, but not required
- Motivation to contribute software components to the Visdom visualization system

**Your application should include:**

- Curriculum vitae
- Publication list, including talks, master thesis, projects that are online available, etc.
- A short personal statement, why you in fact apply for this position
- Code snippets of your previous work
- Letters of recommendation

If you are interested in the position, please apply via e-mail to Jürgen Waser (**jwaser@vrvis.at**). **Application deadline is February, 15th 2014**. Late applications will be considered until the position is filled.

Vienna, December, 2013

VIENNA SCIENCE AND TECHNOLOGY FUND