

Visualizing Time-Dependent Flows – a tutorial at PacificVis 2012

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Welcome, background



■ Tutorial speakers

- Helwig Hauser & Armin Pobitzer (Bergen.no)
- Alexander Kuhn & Maik Schulze (Magdeburg.de)

■ Tutorial background

- International research project SemSeg on the visualization of time-dependent flows with
 - ETH Zürich, Switzerland (R. Peikert et al.)
 - University of Bergen, Norway (H. Hauser et al.)
 - University of Magdeburg, Germany (H. Theisel et al.)
 - VRVis Research in Vienna, Austria (Kr. Matković et al.)

■ Main reference:

- Pobitzer et al.: The State of the Art in Topology-based Visualization of Unsteady Flow. *Computer Graphics Forum* 30:1789–1811 (2011).

Tutorial Overview



■ Part 1

- Opening & Introduction (HH et al.)
- General Methods (AP & AK)

■ Part 2

- Lagrangian Methods (AP & AK)
- Space-time Methods (MSch)

■ Part 3

- Interactive Visual Analysis (HH)
- Wrap-up (all)