

# Partners

## University of Bergen

Norway – UiB.no  
Helwig Hauser et al.  
[www.ii.UiB.no/vis](http://www.ii.UiB.no/vis)



## University of Magdeburg

Germany – OvGU.de  
Holger Theisel et al.  
[www.ISG.CS.OvGU.de/visual](http://www.ISG.CS.OvGU.de/visual)



## ETH Zurich

Switzerland – ethz.ch  
Ronald Peikert et al.  
[graphics.ethz.ch](http://graphics.ethz.ch)



## VRVis Research Center

Austria – VRVis.at  
Krešimir Matković et al.



# Facts...

## ... about SemSeg

Watch out for SemSeg at  
**TopoInVis 2011!**  
[www.TopoInVis.org](http://www.TopoInVis.org)

Interested in SemSeg results?  
join the **SemSeg User Forum**  
at [www.SemSeg.eu](http://www.SemSeg.eu)

Curious about the state of the art  
in topology-based visualization  
of time-dependent flow?  
find **papers & other results**  
at [www.SemSeg.eu](http://www.SemSeg.eu)

# Sem Seg

## 4D Space-Time Topology for Semantic Flow Segmentation

**SemSeg** is a  
small or medium-scale focused  
research project (**STREP**)  
in the future and emerging  
technologies (**FET**) programme  
within the 7th framework  
programme for research of  
the European Commission (**FP7**)  
with grant no. 226042  
started June 2009



[www.SemSeg.eu](http://www.SemSeg.eu)

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# What...

## ... is the problem?

### SemSeg in a nutshell

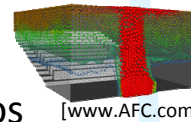
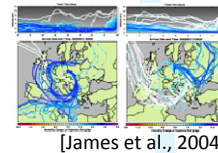
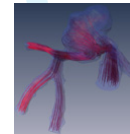
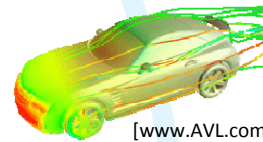
- vector field topology (VFT) is an elegant and specific approach to analyzing/visualizing stationary flow fields
- for time-dependent flow fields (much more common in reality) no comparable solution exists!
- SemSeg attempts to research a solution for unsteady vector fields by advancing & combining **promising approaches** (like FTLE, FFF, IVA, etc. – see the project home page for details)
- a number of companies, governmental research centers, and other research groups have **expressed their support** for the SemSeg project

# Who...

## ... benefits from SemSeg?

### The need to understand flows emerges in many applications

- **engineering**  
example:  
car design
- **medicine**  
example:  
blood flow analysis
- **meteorology**  
example:  
weather forecast
- **safety applications**  
example:  
indoors fire scenarios
- and many others



[www.SemSeg.eu](http://www.SemSeg.eu)

# Contact

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### Project management

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