# MOVE – workshop on tracking recreational behaviour

Hans Skov-Petersen ([hsp@life.ku.dk](mailto:hsp@life.ku.dk))

Forest & Landscape Denmark

University of Copenhagen

Reto Rupf (reto.rupfzhaw.ch)

Life Sciences und Facility Management

ZHAW, Switzerland

Venue: To be announced

Time (tentative): 2 days October/November 2011. To be announced

The workshop aims at the development of concepts /semantics for the analysis of GPS-based registration of recreational behaviour.

*The workshop will include:*

* Presentations by the organizers
* Invited presentations of case-studies
* Presentation from participants regarding the assignment

The data set covering Van Münster in the Eastern part of Switzerland will *be provided* to the participants one month ahead of the workshop. This data set includes:

* Numerous GPS-tracks of hikers, mountain bikers, skiers, and snowshoers (points)
* A detailed digital elevation model (raster)
* A land cover map (polygons)
* Summer trails (polylines)

*Assignment:* participants are encouraged to acquaint themselves with the data set and prepare a presentation of considered analytical approaches. Prototype applications of the developed ???? can also be presented. Participants are welcome to base their presentation on methods previously developed.

*Analysis can (for instance) include:*

* Automated Pre-processing:
  + Removal of erroneous points
  + Noise Handling
  + Detection of stops
  + Trajectory Reconstruction for the extraction of tours (e.g. routes between stops, track segments, etc)
* Analysis of places
  + Visitor loads on locations
  + Visitor loads on track segments (map matching must be considered)
* Aggregation and Generalisation, Similarity Measures???
  + Length
  + Duration
  + Avg. speed
  + Various aggregates – like altitude difference, land cover distribution, visibility characteristics etc.
* Choices made along the route