

## EINLADUNG

Zeit: Donnerstag, 30.04., 16.30 Uhr

Ort: AH I, Ahornstr. 55

Referent: Herr Prof. Dr. Daniel Cremers  
Universität Bonn

Titel: Optimal Solutions for Spatially Continuous  
Labelling Problems

### Abstract:

Numerous computer vision problems can be cast as labelling problems where each point is assigned one of several labels. The case of two labels includes problems like binary segmentation and multi-view reconstruction. The case of multiple labels includes problems such as stereo depth reconstruction and image denoising. In my presentation, I will introduce methods of convex relaxation and functional lifting which allow to optimally solve such labelling problems in a spatially continuous setting. Experimental results demonstrate that these spatially continuous approaches provide numerous advantages over spatially discrete (graph cut) formulations, in particular they are easily parallelized (lower runtime), they require less memory (higher resolution) and they do not suffer from metrication errors (better accuracy).

Es laden ein: Die Dozenten der Informatik