



University  
of Basel

Department of  
Biomedical Engineering

# Center for medical Image Analysis & Navigation



Caption (Photographer)

Images play an amazing number of different roles in medicine. They are not only sources of information, but also tools for communication, planning, navigation and control. The Center for medical Image Analysis & Navigation (CIAN) contributes to the optimized production, use and delivery of medical images in a number of highly networked research projects.

The main areas of research of the group are image-guided therapy, medical image analysis, laser surgery, as well as augmented reality. One of the main research topics of the group is the modelling of breathing-induced organ motion. These models are widely used in cancelling the remaining motion in tumour therapy to reduce the collateral damage to neighbouring tissues. The developed models are currently being implemented in the proton beam facility at the Paul-Scherrer-Institute in Villigen and in a project with an industrial partner.



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The Center for medical Image Analysis & Navigation (former Medical Image Analysis Center) at the Faculty of Medicine was established in late 2007 and made possible by the generous endowment from Dr. h.c. Hansjörg Wyss. Later, the founded professor position was converted into a structural position as part of the Department of Biomedical Engineering.s

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