

3D-Printed Implants for Neurosurgery

Short description:

Implementation of Algorithms to reconstruct and 3D-print Implants for Neurosurgery

Goal:

The objective of this interdisciplinary project between Computer Science and Medicine is to develop algorithms for the reconstruction of neurosurgery implants. The plan is to 3D-print the patient-individual implants in the OR shortly after the surgery. The project will be carried out in cooperation with the Neurosurgery Department of the Medical University of Graz.

Note: Biomedical Engineering Students are welcome!

Keywords:

Reconstruction, Implants, 3D Printing, Image Analysis, Computer Vision, Segmentation, Registration, Visualization

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