

German Conference on Medical Image Computing - Bildverarbeitung für die Medizin

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Medical image computing is the key technology for modern image-based diagnostics and surgical support. The German-speaking community have been meeting at the BVM conference (German conference on Medical Image Computing, Bildverarbeitung für die Medizin) since 1993.

The aim of the conference is to present current research results and to deepen discussions between representatives of the medical, computer and technical sciences, industry and clinical application. The conference is also explicitly aimed at young scientists who wish to report on their Bachelor's or Master's projects. Contributions from European colleagues are also welcome. Although English and German are equal congress languages, English has largely prevailed in the lectures and poster presentations.

Artificial intelligence and machine learning play a particularly important role. Nevertheless, the topics of the conference cover all areas of medical image processing, in particular algorithms, hardware and software systems and their clinical application:

- Machine learning and artificial intelligence
- Convolutional Neural Networks and Deep Learning
- Generative Models and Transformer Networks
- Imaging and image acquisition, e.g. MRT, CT, ...
- Visible light, endoscopy, microscopy
- Image segmentation and image analysis
- Image registration and fusion
- Visualisation and animation
- Anatomical atlases
- Time series analysis
- Secure exchange of medical image data
- Patient-specific simulation and planning
- Computer-aided diagnosis
- Virtual / Augmented Reality
- VR simulators and haptic 3D interaction
- Biomechanical modeling
- Computer-assisted intervention
- Instrument and patient localisation and tracking
- Computer-aided operation planning
- Clinical application of computer-aided systems
- Validation and quality assurance
- Image-supported robots, surgical simulators
- Free topics

<https://magazin.tu-braunschweig.de/event/bvm-conf>