UNIVERSITÄT ZU LÜBECK

BVM 2026

German Conference on Medical Image Computing

Bildverarbeitung für die Medizin

March 15-17, 2026
Lübeck

Organizers

Institute of Medical Informatics, University of Lübeck

German Research Center for Artificial Intelligence (DFKI), Lübeck

Call for Papers

Submission deadline   Oktober 24, 2025

dfki ai — Deutsches Forschungszentrum für Künstliche Intelligenz — German Research Center for Artificial Intelligence

IEEE

BVMI

gmds — Deutsche Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e.V.

DAGM — Deutsche Arbeitsgemeinschaft für Mustererkennung e.V.

VDE DGBMT

GI

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www.bvm-conf.org

Aims of BVM

Medical image computing is the key technology for modern image-based diagnostics and surgical support. The 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.

Topics

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
- Visualization 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 localization and tracking
- Computer-aided operation planning
- Clinical application of computer-aided systems
- Validation and quality assurance
- Image-supported robots, surgical simulators
- Open topics

Dates

Date	Event
24.10.2025	Submission deadline for long papers/abstracts
28.11.2025	Notification of authors
04.01.2026	Submission deadline for print-ready long papers/abstracts
31.01.2026	Submission deadline for BVM-Award applications
31.01.2026	End of the reduced conference fees
15.03.2026	Tutorials
15.03.2026	Conference opening reception
15.-17.03.2026	Conference

Conference chair	Prof. Dr. rer. nat. habil. Heinz Handels Institute of Medical Informatics, University of Lübeck DFKI Lübeck - AI in Medical Image and Signal Processing heinz.handels@uni-luebeck.de

Conference office

Susanne Petersen
Institute of Medical Informatics, University of Lübeck
orga-2026@bvm-conf.org

Contributions

There are two submission formats:

Original papers: Papers up to six pages can be submitted. Accepted contributions will be published as long versions in the conference proceedings of the *Informatik Aktuell* series by Springer Verlag, Berlin. The original paper can be presented as oral or poster presentation or software demonstration.

Abstracts: The abstract format comprises one page and allows the submission of interesting contributions that have already been published elsewhere or are accepted for publication. Abstracts will appear in the conference proceedings with title, authors and abstract only. Abstracts can be presented as oral or poster presentation or software demonstration. Submission and format templates are available at www.bvm-conf.org

All original papers are evaluated by three independent reviewers from the program committee.

Special Issue

It is planned to publish outstanding scientific contributions from BVM 2025 in a special issue of a renowned international journal. In each of the last four years, a special issue has been published in the International Journal of Computer Assisted Radiology and Surgery (IJCARS) and in the Machine Learning for Biomedical Imaging Journal (MELBA)

Awards and honors

Awards are given for the
- Best papers (3 awards, original papers only)
- Best oral presentation (Pitt-Meinzer-Award)
- Best poster or software demonstration

In a further application process, the BVM Award will be announced for the best final thesis in the field of medical image computing (Bachelor, Master, PhD, Habilitation). The BVM Award 2026 is endowed with 2.000,-€, sponsored by the company Nexus/Chili.

Presentation types

Orals: Current research results are presented and discussed in scientific lectures (12 minutes + 3 minutes discussion). Optionally, you additionally can create a poster to further promote the 1:1 discussion during the poster session.

Poster and software demonstrations: The poster presentation (A0, portrait format) and software demonstrations enable intensive discussions and personal contact.

Conference fees

	Early bird Until 31.01.2026	Regular From 01.02.2026
Students (Bachelor/Master)	40€	60€
Members of supporting professional association	200€	250€
Regular participants	220€	270€
Tutorial	60€	80€
Conference Opening Reception	free	free
Social evening (regular/students)	40€ / 20€	40€ / 20€
Guided City Tour	10€	10€

Tutorials	Tutorials are planned on Sunday afternoon

- Kaapana - Hands on Demo, Prof. Dr. Klaus Maier-Hein, Heidelberg
- A second tutorial is to be announced.

Keynotes	Keynote speakers

- Prof. Dr. Aasa Feragen, DTU Compute, Technical University of Denmark, Lyngby, Denmark
- Prof. Dr. Nils Forkert, Departments of Radiology, Clinical Neurosciences, and Electrical and Software Engineering, University of Calgary, Calgary, Canada
- Prof. Dr. Antonio Krüger, CEO of the German Research Center for Artifical Intelligence (DFKI), Saarbrücken, Germany

Industry

The conference is co-financed by industrial sponsorship. An industry exhibition and job fair will be held in the foyer of the Audimax lecture hall building. If you are interested, please contact the conference office.

BVM Committee

Supraregional organization:

Katharina Breininger	Universität Würzburg
Thomas Deserno	TU Braunschweig
Heinz Handels	Universität zu Lübeck
Andreas Maier	FAU Erlangen-Nürnberg
Klaus Maier-Hein	DKFZ Heidelberg
Christoph Palm	OTH Regensburg
Thomas Tolxdorff	Charité - Universitätsmedizin Berlin

Local Orga

University of Lübeck, Institute of Medical Informatics and DFKI Lübeck: Heinz Handels, Mattias Heinrich, Jan Ehrhardt, Marja Fleitmann, Susanne Petersen, Jan-Hinrich Wrage and more

Conference Venue

University of Lübeck
Conference: Lecture hall building Audimax, AM 3
Mönkhofer Weg 245, 23562 Lübeck

Tutorials and Reception: Building 64, Computer Science Building, Marie-Cuire-Str. 64, 23562 Lübeck

Organizers

Institute of Medical Informatics and DFKI Lübeck, University of Lübeck

Reception

BVM 2026 will start on Sunday afternoon with tutorials and the following conference opening reception with snacks and drinks and the opportunity for first discussions.

Activities

In addition, there will be the following BVM-related activities that are optionally open to all participants:

- Conference Dinner on Monday Evening (with registration)
- Guided City Tour (with registration)
- Running Events (without registration, free of charge)

Supporting professional associations

- Berufsverband Medizinischer Informatiker e.V. (BVMI)
- Deutsche Gesellschaft für Computer- und Roboterassistierte Chirurgie (CURAC)
- Deutsche Arbeitsgemeinschaft für Mustererkennung e.V. (DAGM)
- Fachgruppe Medizinische Informatik der Deutschen Gesellschaft für Biomedizinische Technik (DGBMT) im Verband Deutscher Elektrotechniker (VDE)
- AG Medizinische Bild- und Signalverarbeitung der Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie (GMDS) und der Gesellschaft für Informatik (GI)
- IEEE Joint Chapter Engineering in Medicine and Biology, German Section

Program Committee

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•	Nicolai Spicher	Technical University of Denmark
•	Thomas Tolxdorff	Charitè - Universitätsmedizin Berlin
•	Klaus Tönnies	OvG Universität Magdeburg
•	Hristina Uzunova	DFKI Lübeck
•	Gudrun Wagenknecht	Forschungszentrum Jülich
•	René Werner	UKE Hamburg
•	Thomas Wittenberg	Fraunhofer IIS Erlangen
•	Ivo Wolf	Hochschule Mannheim

Welcome to Lübeck

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