



REGENSBURG



BVM 2025

German Conference on Medical Image Computing

Bildverarbeitung für die Medizin

March 9-11, 2025
Regensburg

Organiser

Regensburg Medical Image Computing (ReMIC)
OTH Regensburg (Technical University of Applied Sciences)

supported by

Regensburg Center for Artificial Intelligence (RCAI)
Regensburg Center of Biomedical Engineering (RCBE)
Regensburg Center of Health Sciences and Technology (RCHST)

Call for Papers

in conjunction with the

MedVis & BioVis Workshop
on March 12-13, 2025

of the Visual Computing in Biology and Medicine specialist
group of the Gesellschaft für Informatik

Submission deadline

October 25, 2024



gmds

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

BVMI
Berufsverband
Medizinischer
Informatiker e.V.

DAGM
Deutsche Arbeitsgemeinschaft
für Mustererkennung e.V.

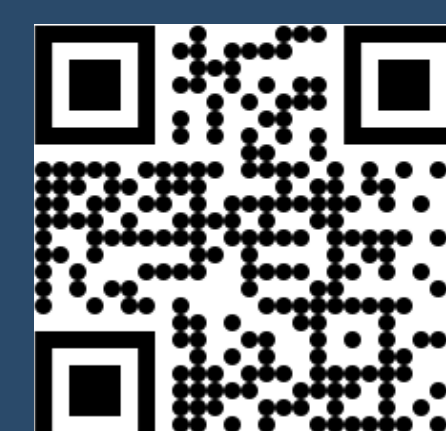
VDE DGBMT



in cooperation with



www.bvm-conf.org



Conference chair

Prof. Dr. rer. nat. Christoph Palm
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OTH Regensburg
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Conference office

Sümeyye Yildiran
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orga-2025@bvm-conf.org

Contributions

There are two submission formats:

- **Original papers**
- **Abstracts**

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 presentation can take the form of a lecture or a poster.

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

All original papers are evaluated by three independent reviewers from the programme 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 three years, a special issue has been published in the International Journal of Computer Assisted Radiology and Surgery (IJCARs, IP: 3.0).

Awards and honours

Awards are given for

- **Best contribution** (3 awards, original papers only)
- **Pitt-Meinzer-Vortragpreis** (best lecture)
- **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 processing (Bachelor, Master, PhD, Habil). The BVM Award 2025 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, we are happy if a poster is also created for the oral content in order to promote the 1 on 1 discussion.

Poster and software demonstrations: The poster presentation (A0, portrait format) preceded by a teaser enables intensive discussions and personal contact. Software and system demonstrations showing **hands-on systems** are particularly welcome. The presentations are integrated into the poster sessions.

Dates

25.10.2024	Submission deadline for long papers/abstracts
29.11.2024	Notification of authors
05.01.2025	Submission deadline for print-ready long papers/abstracts
31.01.2025	Submission deadline for BVM-Award applications
31.01.2025	End of the reduced conference fees
09.03.2025	Tutorials
09.03.2025	Conference Opening Reception
09.-11.03.2025	Conference
12.-13.03.2025	MedVis&BioVis Workshop

Tutorials

Several tutorials are planned for Sunday afternoon:

- **Quantum Computing**
OTH Regensburg
- **Kaapana Demo - HandsOn**
DKFZ Heidelberg
- **Implicit Neural Representations**
Universität zu Lübeck

Keynotes

We are happy to announce three keynotes:

- **Ivana Išgum**, Amsterdam University Medical Centers, NL
- **Dave Hawkes**, University College London, GB
- **Dirk Wilhelm**, Technische Universität München, D

Industry

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

BVM Committee

Supraregional organisation:

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

OTH Regensburg, ReMIC Laboratory: Christoph Palm, Sümeyye Yildiran, Leonard Klausmann, Alexander Leis, David Rauber, and more

Conference venue

OTH Regensburg

Conference: Lecture hallbuilding at the Forum, Galgenbergstr. 30, 93053 Regensburg

Tutorials and Reception: Building K, Faculty of Computer Science and Mathematics, Galgenbergstr. 32, 93053 Regensburg

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and supporting professional associations.

Reception

This time, BVM will officially start on Sunday evening with the **conference opening reception** with snacks and drinks and the opportunity for first discussions.

Activities

In addition, there will be a number of BVM-related activities that are optionally open to all participants:

- City tour (with registration, small contribution towards costs)
- Running Events (without registration, free of charge)
- Guided tours of the OTH research facilities

Conference fees

	Early bird until 31.01.2025	Regular from 31.01.2025
Students (Bachelor/Master)	45€	65€
Members of supporting professional associations	190€	230€
Regular participants	215€	255€
Tutorial	60€	80€
Conference Opening Reception	free	free
Social evening (regular / students)	35€ / 20€	45€ / 25€
MedVis & BioVis Workshop	free	free

Aims of BVM

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.

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
- 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

Website and Social Media

All information and the possibility to register at:

www.bvm-conf.org

You can also follow the LinkedIn account

[BVM - German Conference on Medical Image Computing](#)

and the X account

[@BVM_Conf](#)

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 Informaik (GI)
- IEEE Joint Chapter Engineering in Medicine and Biology, German Section

Program committee

- Marc Aubreville
 - Katharina Breininger
 - Thomas Deserno
 - Jan Ehrhardt
 - Sandy Engelhardt
 - Ralf Floca
 - Nils Forkert
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 - Ivo Wolf
- TH Ingolstadt
FAU Erlangen-Nürnberg
TU Braunschweig
Universität zu Lübeck
Universitätsklinikum Heidelberg
DKFZ Heidelberg
University of Calgary, Canada
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Universität Heidelberg
TU München
Univ. Hospital Schleswig-Holstein, Kiel
FH Wedel
TU München/Helmholtz Zentrum München
FH Aachen
HZDR/NCT Dresden
UMG Göttingen
Charité - Universitätsmedizin Berlin
OvG Universität Magdeburg
Forschungszentrum Jülich
UKE Hamburg
Fraunhofer IIS Erlangen
Hochschule Mannheim

VCBM

The MedVis & BioVis-Workshop of the **Visual Computing in Biology and Medicine** specialist group of the GI will be held directly after the BVM on March 12-13, 2025 at the conference venue in Regensburg.

Welcome
to
Regensburg

UNESCO World Heritage

