GCPR-VMV

Munich, September 10-13, 2024

CALL FOR PAPERS:
GERMAN CONFERENCE ON PATTERN RECOGNITION (GCPR 2024)

Conference Dates: September 10-13 (main conference)
Location: TUM Campus Garching, Boltzmannstrasse 3
Website: https://www.gcpr-vmv.de/year/2024

GCPR-VMV 2024

is Germany's leading forum for advances in computer vision, machine learning, computer graphics, modeling, and visualization research. It combines two conferences: The German Conference on Pattern Recognition (GCPR) and the International Symposium on Vision, Modeling, and Visualization (VMV). Besides the research, the forum has a tradition to be a networking event of Germany-based researchers, with typically over 200 participants including many world-leading experts. The conference main program (Tuesday to Friday) includes several keynote speakers, as well as invited talks by leading researchers from academy and industry. The social program includes a reception and a conference dinner. On the day prior to the main conference (Tuesday) we organize a workshop and a tutorial. TU Munich hosts the 46th edition of GCPR and 29th edition of VMV.

GCPR 2024

GCPR authors are invited to submit high-quality papers presenting original research. Submitted papers will be reviewed based on the criteria of originality, soundness, empirical evaluation, and presentation. The reviewing process is double-blind. Accepted papers will be published by Springer as a proceeding of the Lecture Notes in Computer Science (LNCS).

Topics of interest include, but are not limited to, the following:

- Image/video processing, analysis, and computer vision
- Machine learning and pattern recognition
- Mathematical foundations, statistical data analysis and models
- Computational photography and confluence of vision and graphics
- Vision-Language and multi-modal data approaches
- Advances in machine learning and generative models
- Biomedical image processing and analysis
- Applications in robotics, hardware, systems and beyond

DAGM Deutsche Arbeitsgemeinschaft für Mustererkennung e.V.

GESELLSCHAFT FÜR INFORMATIK FACHBEREICH GDV

Special Tracks

We especially invite submissions for the following Special Tracks, which are chaired and reviewed by experts from the respective fields. They also have special review criteria which will be explicitly communicated to the reviewers to ensure clear quality expectations and interesting contributions.

Computer vision systems and applications

The computer vision systems and applications track invites papers on systems and applications with significant, exciting vision and machine learning components. The track provides a forum for researchers working on industrial applications to share their latest developments. The focus is not on state-of-the-art research novelty. Instead, the system and applied papers need to stand out in successfully transferring research results to applications in the industry. Important are measurable success indicators, such as performance, robustness, memory or energy consumption, big data, systems-level innovation or adaptation of existing methods to an entirely novel domain while satisfying industrial requirements.

Pattern recognition in the life and natural sciences

Pattern recognition and machine learning are already a major driver in the sciences, for example, for data-driven analysis or understanding of processes. This special track invites original work that demonstrates the successful development and application of pattern recognition methods tailored for the specific domain from the natural and life sciences.

Photogrammetry and remote sensing

The photogrammetry and remote sensing track invites papers on theory and applications in photogrammetry and remote sensing with significant computer vision or machine learning components. The track provides a forum for researchers developing approaches ranging from image classification and segmentation to high-precision photogrammetry to share their latest developments. Besides the established research domains, this track will also consider submissions if they present interesting, complex applications, possibly in unexpected domains or on novel datasets.

Robot vision

The robot vision track invites papers on state-of-the-art research in computer vision approaches for robotics. The papers in the track will be reviewed by experts in the field and judged by criteria of technical merit, quality, originality, and scientific novelty. The track provides a forum for researchers on robotics-related methods for computer vision and machine learning at the conference.

DAGM YOUNG RESEARCHER'S FORUM

If you are a Master student, you are invited to submit your thesis as a paper to GCPR to promote your work, meet prospective employers or Ph.D. supervisors and compete for the Best Master's thesis award of the DAGM Young Researcher's forum (https://www.dagm.de/awards/young-researchers-forum). Please follow the special instructions (https://www.gcpr-vmv.de/year/2024/gcpr/submission) on the conference web page.

FAST REVIEW TRACK

Fast review track is now open for **all rejected papers from major peer-reviewed conference and journals in the field** (for example CVPR, ECCV, NeurIPS, ICML or ICLR) **since 01.06.2023 (rejec-**

tion date). We welcome all rejections to this GCPR but the timeline is adjusted to the expected ECCV decision with extra time to include improvements. To obtain suitable submission instructions below, exchange e.g. 'CVPR' with the respective venue name and 'meta-reviews' with 'editor comments' for journal articles.

As for regular papers, the paper length is limited to 12 pages excluding references. It is not allowed to modify the margins, font size, or page layout of the template. Submissions that use the CVPR template will be rejected. Besides any optional supplementary material for the revised paper, the following documents need to be provided as part of the supplementary material:

- the original unmodified CVPR 2024 submission with CVPR paper ID as PDF
- the original unmodified CVPR 2024 reviews as PDF (see instructions below)
- the original unmodified CVPR 2024 meta-review as PDF (see instructions below)
- a summary of changes as PDF that describes the changes of the original CVPR submission and how the comments of the reviewers have been addressed in the revised paper (see GCPR 2024 author kit for the template).

The review process takes only two weeks and is similar to the reviewing process of a journal for a minor revision. Please see the submission instructions (https://www.gcpr-vmv.de/year/2024/gcpr/submission) on the conference web page for more details.

NECTAR TRACK & RESEARCH SPOTLIGHT

The **Nectar Track** presents an opportunity to contribute to the program of GCPR-VMV by presenting a paper that has already been published at a major international conference (or in a journal) in the areas of computer vision, machine learning, visualization, or computer graphics. The Nectar Track generates additional exposure of your work and creates a platform for networking with colleagues within and outside the GCPR-VMV community.

The **Research Spotlights** Track is a shining opportunity for postdocs and senior PhDs aspiring for an academic career to showcase their research journey. It invites scholars to present concise yet comprehensive summaries of their lines of research as a chance to illuminate your work, share insights, and engage with fellow academics in the vibrant GCPR-VMV environment.

You can apply to these tracks online following https://forms.gle/9NaV1zRDH8gLvUEaA

DATES

The dates for all submissions are as follows. Deadlines are at 23:59:59 CEST of the respective date.

Regular Papers GCPR	
Paper Submission Deadline:	May 29, 2024
Supplementary Material Deadline:	June 5, 2024
Decisions to Authors:	July 5, 2024
Camera Ready Deadline:	July 19, 2024
Fast Review Track GCPR	
Paper Submission Deadline:	July 17, 2024
Supplementary Material Deadline:	July 17, 2024
Decisions to Authors:	August 7, 2024
Camera Ready Deadline:	August 21, 2024
GCPR-VMV Nectar Track & Research Spotlights	
Proposal Submission Deadline:	July 31, 2024
Notification of acceptance:	August 9, 2024

CONTACT & ADDITIONAL INFORMATION

Please see the conference web page for contact information of the organizers and more details about the submission process and format.

Web: https://www.gcpr-vmv.de/year/2024
Email: gcpr-vmv-2024@tum.de

General Chairs: Daniel Cremers (TUM) and Matthias Nießner (TUM)
Program Chairs: Michael Möller (University of Siegen), Zorah Lähner (University of Bonn), Zeynep Akata (TUM / Helmholtz Munich) and Björn Ommer (LMU)