

Geometric Modeling and Processing (GMP 2025) Report



Group picture in front of the venue

[Geometric Modeling and Processing](#) (GMP 2025) took place on the campus of Washington University in St. Louis (WashU) in Missouri, USA, during May 28-30, 2025. The conference was organized by the McKelvey School of Engineering in WashU, sponsored by Adobe Inc, and in collaboration with the journal Computer Aided Geometric Design (CAGD) and the Asian Association for Computer Graphics and Interactive Technology (AsiaGraphics).

GMP'25 program attracted 82 abstracts, which turned into 56 full paper submissions that went through the review process. Each submission was reviewed by 3 members of the International Program Committee, which comprised 75 members from Asia, Europe, and North America. The first round of reviews was conducted in the SRM system, and the second round was completed in Editorial Manager in accordance with the requirements of CAGD. After two rounds of reviews, 15 submissions were accepted as full-length papers to be presented at the conference and published as a special issue in CAGD (available [here](#)).

In addition to the accepted papers, the conference program included 4 invited presentations by authors of recent publications in CAGD (1), IEEE Transactions on Visualization and Computer Graphics (1), and Computer Graphics and Applications (2), 3 poster presentations from submissions rejected during review but considered meritorious, and 7 invited poster presentations from young researchers in China. The program was divided into 5 paper sessions (20-minute oral presentation for each paper), 2 poster sessions (10-minute oral presentation for each poster), and 2 poster viewing sessions.

The conference invited three keynote speakers. Dr. Rana Hanocka from the University of Chicago (USA) gave a talk titled “Data-Driven Neural Mesh Editing – without 3D Data”. Dr. Alec Jacobson from the University of Toronto gave a talk titled “The Triangle is Dead, Long Live the Triangle!”. Finally, Dr. Kelley Van Dyck Murphy from WashU gave a talk titled “Encoded Earth: Material Negotiations in Clay, Geometry, and Computation”.



Dr. Rana's keynote

GMP'25 featured a Best Paper Award contest, sponsored by CAGD. The 1st, 2nd, and 3rd place winners received \$200, \$100, \$50, respectively. The winners were, in order:

1. “*Transfinite Barycentric Coordinates for Arbitrary Planar Domains*”, by Qingjun Chang and Kai Hormann
2. “*Weingarten Surface Approximation by Curvature Diagram Transformation*”, by Fei Huang, Caigui Jiang, and Yongliang Yang.
3. “*A Dynamic Arrangement Framework for Automatic Tooth Alignment based on Orthodontic Rules*”, by Yeying Fan, Weijie Liu, Chuanxiang Yang, Guangshun Wei, Chuanyun Fu, Wenping Wang, and Yuanfeng Zhou.



Best paper award ceremony

Suggestions/thoughts:

- Due to challenges for Chinese nationals to obtain USA visas, almost half of the presentations (both for paper and poster) were conducted remotely, which affected the engagement between the authors and the audience and contributed in part to the small number of physically present attendees. To resolve this issue, it is suggested that future GMP conferences may choose a non-US site or adopt strategies that boost attendance from US institutions/companies.
- Along the same lines, future organizers and program chairs need to think about increasing the number of submissions from countries outside China. Like GMP'24, a majority of submissions and the accepted papers come from Chinese institutions, which contributed in part to the issue mentioned above.
- Due to the long process of making special issues open-access at CAGD, it is suggested that future conference organizers work closely with the CAGD team to start the process early (should the collaboration with CAGD continue), so that the special issue is made publicly available before the start of the conference.