



Preface to the 2022 Symmetries in Graphs, Maps and Abstract Polytopes Workshop Special Issue*

During the summer of 2022, the University of Alaska Fairbanks hosted the seventh quadrennial Symmetries in Graphs, Maps and Abstract Polytopes (SIGMAP) Workshop. The first SIGMAP was organized by Steve Wilson in Flagstaff, Arizona in 1998. The Workshop always features a mixture of researchers from around the world interested in questions related to the symmetries of objects in discrete geometry, and seeks to foster new collaborations and further existing ones. This SIGMAP was no different, with 43 participants from 12 countries, who participated despite the complications of COVID-19 affected travel uncertainties and smoky conditions during the first few days of the Workshop due to wildfires in the state of Alaska. In addition to the 28 talks given during the course of the conference, as well as a public lecture delivered by Dr. Asia Ivić Weiss, the Workshop featured a problem session and daily opportunities to meet with other mathematicians to talk about open problems and carry out investigations.¹

Collected in this volume are some of the fruits of those conversations prepared by SIGMAP participants, as well as a paper by Drs. Bokowski and Wills who were unable to participate. Our thanks to the authors for their contributions and the enlightening discussions we had with many of them at the Workshop. We hope that you will find these articles stimulating and interesting, and that we will see you at the next SIGMAP in 2026 in Brussels, Belgium, which is being organized by Dr. Dimitri Leemans.

Special thanks to Dr. Marston Conder, Dr. Isabel Hubard, and Dr. Daniel Pellicer who advised the local organizers and assisted in selecting and recruiting plenary speakers for SIGMAP. We also cannot overstate how grateful we are to the tireless and patient work of the anonymous referees. We also thank Dr. Klavdija Kutnar and the editors for agreeing to this project, and the editorial and production team at The Art of Discrete and Applied Mathematics for their assistance in preparing this special issue.

References

- [1] Symmetries in Graphs, Maps, and Polytopes Workshop 2022,
<https://www.alaska.edu/sigmap>.

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¹Interested readers can watch the talks on the workshop website [1].