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A NOTE FROM THE CHIEF EDITOR

ALEJANDRO ADEM

This issue of the *Bulletin of the American Mathematical Society* (April 2024) is the first one for me as Chief Editor. Our journal has a long tradition going back to 1891, and as stated on the AMS website:

"*The Bulletin publishes expository articles on contemporary mathematical research, written in a way that gives insight to mathematicians who may not be experts in the particular topic. The Bulletin also publishes reviews of selected books in mathematics and short articles in the Mathematical Perspectives section, both by invitation only.*"

I would like to cordially invite fellow mathematicians to submit articles that fit under the description above. In particular, if you feel that there is a worthy research topic that deserves to be covered by a *Bulletin* article please let me or any of the other editors know about it; we will be happy to follow up on your suggestions. We are in an exciting and very dynamic period for mathematical research, which has an increasingly relevant role in the development of other scientific disciplines as well as a societal impact that is more apparent than ever. I am confident that the articles we publish can continue to capture the beauty, richness, and relevance of mathematics, building on the excellent tradition that began 133 years ago.

Now, let's come back to 2024. A recent article published in *Nature*[1] described how researchers at Google DeepMind have developed an artificial intelligence (AI) that can solve International Mathematical Olympiad-level geometry problems. This surely makes us pause for some serious thought. Indeed, it is only natural for us to wonder more generally what the potential impact of AI will be on how we do mathematics.

This issue of the *Bulletin* (April 2024) as well as the following one (July 2024) contain a collection of thoughtful papers on this topic, assembled under the expert editorial guidance of Maia Fraser, Andrew Granville, Michael H. Harris, Colin McLarty, Emily Riehl, and Akshay Venkatesh. I am particularly grateful to Andrew Granville for his leadership and hard work in bringing this project together. I hope that you will find the articles both enjoyable and stimulating.

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[1]Trinh, T. H., Wu, Y., Le, Q. V. et al. Solving olympiad geometry without human demonstrations. Nature 625, 476–482 (2024). https://doi.org/10.1038/s41586-023-06747-5