

Dear Colleagues,

This special Christmas edition explores the edge of the human capacity of sight and technology beyond previous comprehension. We begin by congratulating Mehrdad Rafat, Neil Lagali, and their co-authors for their extraordinary scientific achievements originating from Linköping University in Sweden, which culminated in a recent paper in Nature Biotechnology. The authors discuss highlights of their amazing journey in the article “Bioengineered Corneal Tissue.” Also in this issue, Atle Østern, Oslo University Hospital, tackles the foundational question – What is the absolute maximal vision? Journey with him as he ventures to the limits of human sight and explores how it compares with other animals.



Tor P. Utheim

In “How to Work Smarter, Not Harder,” Professor David S. Friedman, Co-Director of the Glaucoma Center of Excellence at the Department of Ophthalmology, Harvard Medical School and his co-author Matthew C. Johnson address another fundamental question. Their work focuses on anterior chamber angle assessment and the use of the latest in artificial intelligence to improve diagnostics and expand the capabilities of eye doctors.

The Editorial Board wishes all our readers a *Merry Christmas* and a *Happy New Year*.

Tor Paaske Utheim
Editor-in-Chief



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We will draw 3 winners:

One person who signs up for the newsletter, one who connects on LinkedIn, and one who follows us on Facebook between December 1, 2022, and January 1, 2023, will be randomly selected to receive a gift. The winners will be announced on our social media pages in the new year!



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COVER:



This festive, Christmas cover was created by MidJourney, a text-to-image AI program. After being given the command to /imagine “happy Christmas outdoor in the winter, lots of gifts,” no human input was given on the image-creation process beyond a handful of “variation” commands and two “upscale” commands. As the topic of the current issue is the exploration of the limits of human capabilities and illuminating what lies beyond, we thought it befit to ask one of the most advanced image-generating programs available to help us find the happy, holiday spirit. And we believe it has.

To explore the full catalog of our AI-generated, Christmas-themed art, please check out the special gallery at oftalmolog.com