

## Special Issue

# Optics and Image Analysis in Modern Agriculture: Transforming Practices and Unveiling Opportunities

### Message from the Guest Editor

Optics and image analysis technologies support modern agriculture, providing detailed insights into crop health, soil conditions, and environmental factors at both macro- and micro-scales. These advancements enable farmers to make data-driven decisions, optimize resource usage, and enhance overall productivity. Furthermore, they present opportunities for industries and research centers to develop innovative equipment and protocols. In addition, the ongoing digital revolution continues to drive novelties in optics and image analysis, regularly introducing novel approaches. This special issue will highlight the diverse applications of optics and image analysis in agriculture. We invite contributions across a wide range of article types, including original research, reviews, and opinion pieces. Together, we can showcase the transformative potential of these technologies for advancing modern agricultural practices.

### Guest Editor

Prof. Dr. Roberto Alves Braga Júnior  
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### Deadline for manuscript submissions

closed (30 September 2025)



## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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### Editor-in-Chief

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