

FAAP 2027

The Future of Agriculture and Advanced Photonics

Explore New Possibilities for Agriculture
FAAP2027 (Future of Agriculture and Advanced Photonics) brings together researchers and experts from **agriculture, photonics, science, and technology** to explore new possibilities for **sustainable agriculture and food production**. The conference focuses on **optical and photonic technologies in agriculture**, together with **biotechnology, robotics, AI, data science, DX, and digital twin technologies**.

JOIN FAAP2027

FAAP2027 welcomes researchers and experts from a wide range of fields, including agriculture, photonics, biotechnology, robotics, AI, and digital technologies.

Connect different perspectives, share emerging technologies, and explore innovative applications for the future of agriculture and food production.

OBJECTIVES

01 Advancing Optical and Photonic Technologies for Agriculture

To present the latest research and applications of **optical and photonic technologies** for **agriculture and food production**, including **cal and photonic technologies** for **agricultural sensing, imaging, spectroscopy, and laser technologies**.

02 Integrating Science and Emerging Technologies

To explore new approaches to agriculture through the integration of photonics with **biotechnology, robotics, artificial intelligence (AI), data science, digital transformation (DX), and digital twin technologies**.

03 Promoting Smart and Sustainable Agriculture

To advance technologies and approaches that improve **productivity, efficiency, and resource utilization**, while contributing to sustainable food production and addressing environmental challenges.

04 Fostering International Collaboration

To promote **information exchange**, networking, and collaboration among researchers, industry professionals, and experts worldwide, and to explore emerging technologies and the future of agriculture from a global perspective.

CALL FOR PAPERS



19 – 23 April 2027



Pacifico Yokohama, Japan

TOPICS / SCOPE

Agri-Photonics

Optical Technologies for Agriculture

- Laser Technology, Imaging and Spectroscopy
- Photonics for in Agriculture
- Optical Sensing Plant and Food Production
- Plant Factories and Controlled Environment Agriculture

Advanced Science & Digital Technologies for Agriculture

- Biotechnology and Bio-Photonics
- Robotics and Drones
- IT, AI, and Machine Learning
- Digital Transformation (DX)
- Digital Twin and Data-driven Agriculture

Smart and Sustainable Agriculture

- Smart and Precision Agriculture
- Plant Science and Photosynthesis
- Sustainable and Eco-friendly Technologies
- Remote Sensing and Satellite-based Sensing
- Environmental Monitoring and Climate Resilience

Topics are not limited to those listed above. Contributions related to emerging technologies and interdisciplinary approaches for agriculture and sustainable food production are also welcome.

IMPORTANT DATE

Submission Site Open



20 October 2026

Submission Deadline



11 December 2026

SUBMIT YOUR ABSTRACT !



Submission and details will be available at the FAAP website

<https://opicon.jp/conferences/faap/>



We look forward to welcoming you to FAAP2027.

International Advisory Board

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