

 In Person  Canada  August 10-14, 2026

 **Submission Deadline: 15th June, 2026** — 33 days remaining

CONFERENCE
WEBSITE:

<https://precisionagriculture.earth/agricultural-robotics-conference/ref/100001>

| About the Conference

Perception and Sensing:

- Machine vision and deep learning for crop and livestock monitoring
- UAV-based remote sensing, data fusion, and analysis
- 3D reconstruction of agricultural environments
- Automated plant phenotyping and stress detection
- Novel sensor modalities for soil, water, and plant health assessment

Manipulation and Field Operations:

- Robotic harvesting, pruning, and thinning for specialty crops
- Soft robotics for delicate produce handling and grasping
- Autonomous seeding, weeding, and targeted spraying
- Mobile manipulation for complex in-field tasks
- End-effector design for agricultural applications

Important Dates

JUN
15

PAPER
SUBMISSION
**15th June,
2026**

• 33 days left

JUL
15

NOTIFICATION
**15th July,
2026**

AUG
10

CONFERENCE
DATE
**August 10-
14, 2026**

Navigation and Planning:

- Long-term autonomy and navigation in unstructured and dynamic farm environments
- Integrated task and motion planning for complex agricultural workflows
- Multi-robot coordination, collaboration, and swarm robotics
- Optimal path planning for energy and operational efficiency
- Simultaneous Localization and Mapping (SLAM) in agricultural settings

Learning and Adaptation:

- Learning from demonstration for agricultural tasks
- Reinforcement learning for robot control and decision-making
- Adaptive systems that respond to environmental variability
- Transfer learning across different crops, seasons, and conditions
- Human-robot interaction and collaborative farming systems

Systems and Applications:

- Digital twins for farm simulation, optimization, and management
- Robotics for indoor, vertical, and urban farming
- Robotics in livestock management and aquaculture
- Economic analysis and adoption models for agricultural robotics
- Ethical, legal, and social implications of agricultural automation

☰ TOPICS OF INTEREST

4 topics

Research papers are invited in, but not limited to, the following areas:

⊖ agricultural robotics

⊖ autonomous farming systems

⊖ precision agriculture sensing

⊖ robot learning & adaptation

| Venue Information



BMO Centre, Calgary, Alberta, Canada

Special conference rates often available near the venue.

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