



**Dr. S. V. PATIL FOUNDATION FOR RESEARCH,
TRAINING AND FARMERS WELFARE
INDIAN SOCIETY OF
AGRICULTURAL INFORMATION TECHNOLOGY (INSAIT)
and
UNIVERSITY OF AGRICULTURAL SCIENCES,
DHARWAD**

Jointly Organizing National Conference on

**Next-Gen Farming :
Artificial Intelligence, Automation and
Digital Transformation**

Conference Date : 7-9, May, 2026

Conference Venue : Farmers Knowledge Centre, UAS, Dharwad

Themes :

1. Artificial Intelligence for Precision Agriculture

Sub themes :

- AI in Soil Health and Nutrient Management
- Optimization of Sensor based Monitoring and Decision Support
- AI/ML for Water use Optimization- Smart Irrigation Systems
- Computer Vision for Weed/Disease/ Pest Detection
- Yield Prediction and Crop Modeling

2. Climate Modeling and Resource Management

Sub themes :

- AI based Weather Predictions
- Climate Risk Forecasting

3. AI driven Genomic selection and Predictive breeding

Sub themes :

- AI in High-Throughput phenotyping
- AI applications in gene editing and functional genomics
- Computer vision for plant trait analysis

4. Automation and Robotics in Agriculture

Sub themes :

- Autonomous Tractors, Drones and Field Robots
- Edge AI for Real Time Field Operations
- Swarm Robotics in Farm Management

5. Data Analytics, IoT and Digital Agricultural Platforms

Sub themes :

- IoT Enabled Smart Farms
- Digital Twins for Farming Systems
- Cloud/Edge Computing in Agriculture
- Inter-operability and Data Standards



6. AI for Supply Chain, Post Harvest and Agri-business

Sub themes :

- Demand Forecasting and Value Chain Optimization
- Quality Grading Using Machine Fission
- Post Harvest Loss Prediction
- AI Enabled Logistics and Cloud Chain Automation

7. AI in Livestock, Dairy and Fisheries

Sub themes :

- Precision Feeding and Monitoring
- Disease Prediction in Livestock
- Smart Aquaculture Systems
- Behavioral Analytics

8. Policy, Ethics and Socio-economic Impacts

Sub themes :

- Responsible and Explainable AI in Agriculture
- Data Privacy for Farmers
- Adoption Challenges in Rural Areas
- AI for Small Holder Empowerment

9. AI/Robotic/Digital based Agri-Tech Startups

Sub themes :

- Solutions for Nutrient delivery/management
- Solutions for Smart irrigations systems
- Solutions for Precision pesticides application
- AI powered agri-biotech startups

10. Emerging Technologies

Sub themes :

- AI in Course Curriculum - Agricultural Education
- GenAI, Agentic AI for Extension Advisories
- AR/VR for Agricultural Training
- Metaverse for Collaborative Agri-learning



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