



INTERNATIONAL CONFERENCE ON



Trailblazing Trends in Sustainable Climate-Resilient Precision Agriculture through Artificial Intelligence and Remote Sensing



ORGANIZED BY :

Centre of Excellence on Soil & Water Management
Research, Testing and Training Centre
Junagadh Agricultural University,
Junagadh (Gujarat), India.

SPONSORED BY :



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About the University

Junagadh Agricultural University (JAU) stands as a beacon of excellence in agricultural education, research, and extension services, tracing its origins to the establishment of the College of Agriculture in 1960. Evolving from its inception under various affiliations to its independent status today, JAU has cultivated a reputation for pioneering research and innovation in agriculture. With a comprehensive mandate spanning Agriculture, Agricultural Engineering, Horticulture, and Agri-Business Management, the university is committed to address the multifaceted challenges faced by the agricultural sector. Leveraging its robust research infrastructure, JAU continues to drive the development of novel crop varieties and hybrids tailored to the region's agro-climatic conditions. Furthermore, JAU remains at the forefront of integrating cutting-edge technologies, such as artificial intelligence and remote sensing, into agricultural practices, enhancing precision agriculture techniques and bolstering climate resilience in farming communities. JAU developed world class Artificial Intelligence lab with advanced technologies such as robotics, drones, agricultural sensors, CAD designing & simulation and precision agriculture. Through its Krishi Vigyan Kendras (KVKs), JAU extends its impact beyond academia, empowering farmers with knowledge and technologies vital for their success. Moreover, the university's commitment to sustainability is exemplified through initiatives like the Centre of Excellence on Soil and Water Management, which focuses on addressing critical challenges in agricultural water management and promoting sustainable practices. The Centre of Excellence aims to equip agricultural stakeholders with the expertise, tools, and techniques like the standardization of irrigation systems and development of comprehensive technology packages necessary to mitigate water-related challenges and adapt to changing climatic conditions effectively. Conducting ground-breaking research across 24 research stations spread throughout the Saurashtra region of Gujarat, JAU holds a notable position among only nine Universities in the State rated as Five Star, reflecting its dedication to excellence. As JAU continues to chart new frontiers in agricultural research and education, a steadfast commitment to advancing the principles of sustainability, resilience, and innovation is maintained, both regionally and globally.

About the Conference

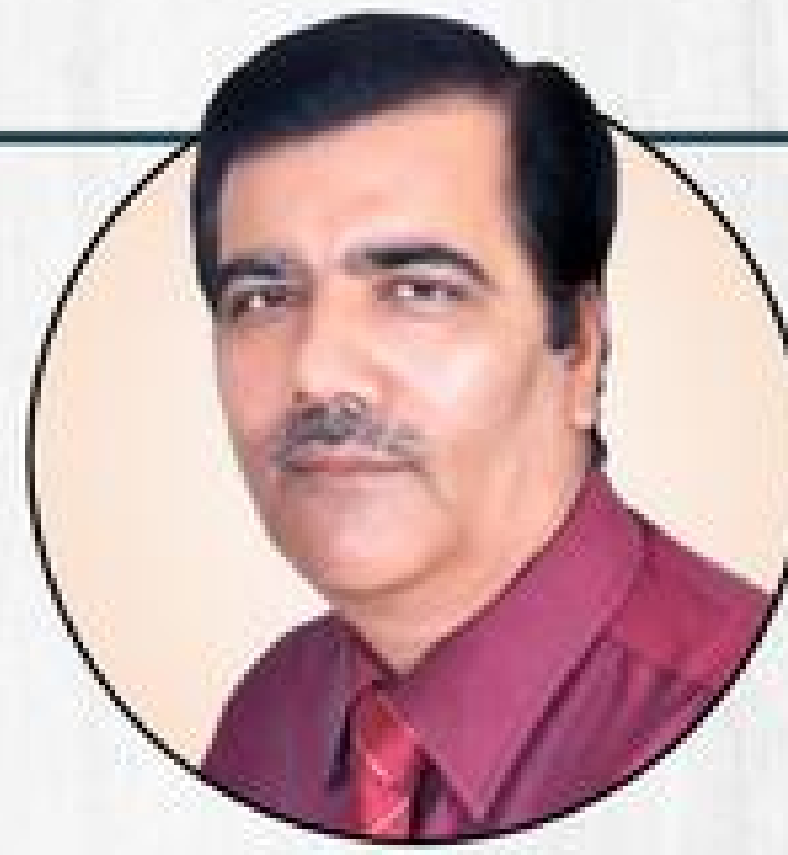
The International Conference aims to catalyze a transformative shift in global agricultural practices by leveraging cutting-edge technologies and innovative methodologies. With a focus on sustainability, climate resilience, and economic viability, the conference serves as a platform for interdisciplinary collaboration and knowledge exchange among researchers, policymakers, industry leaders, farmers, and technology developers. The conference endeavors to harness state-of-the-art technologies such as IoT devices, sensors, and satellite imagery to optimize irrigation practices, enhance water conservation efforts, and implement tailored precision agriculture techniques, alongside advancing the adoption of renewable energy sources and precision farming machinery to minimize ecological footprints while maximizing productivity and efficiency. It also aims to explore precision engineering solutions for agricultural processing and value addition, promote sustainable crop production technologies, soil health management, and plant nutrient optimization, while leveraging the synergies between precision agriculture and artificial intelligence to revolutionize horticultural practices. Key objectives include showcasing advancements in precision agriculture technologies, addressing climate resilience strategies, promoting sustainable practices, and empowering stakeholders with knowledge and resources to implement effective solutions. The conference offers a vibrant platform for scientists, researchers, students, and academia across the globe to exchange ideas, uncover trends, and foster collaboration with non-profit organizations and research institutes, providing opportunities for publication and guidance. Through these efforts, the conference envisions a future where technology and ecological wisdom converge to create sustainable, climate-resilient agriculture systems that nourish humanity, growers and the planet.

Keynote Speakers



Dr. Vijay P. Singh

Distinguished Professor and Regents Professor, Texas A&M University, USA



Dr. S.N. Jha

Deputy Director General (Agril. Engg.) Indian Council of Agricultural Research, New Delhi



Dr. Biswajeet Pradhan

Director, CAMGIS, Faculty of Engineering and IT, UTS, Sydney, Australia



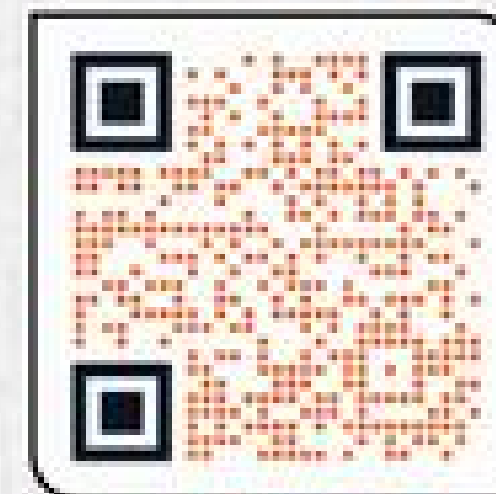
Dr. Zhenglin Wang

Lecturer – ICT, CQ University, Queensland, Australia



Dr. Mahender Thudi

Research Professional AD, Fort Valley State University, Georgia, USA



Mr. Praveen Sharma

Founder, Flora Consult, Pune



Themes of the Conference

1. Precision in Soil and Water Management: Sensors to Satellites

- Precise irrigation and fertigation management and water conservation with integration of IoT devices and sensors for real-time monitoring of soil moisture levels
- Utilization of hydrological modeling to improve water management strategies, particularly in the context of climate change.
- Deployment of drones for aerial soil and water analysis, providing valuable insights for optimized irrigation practices.
- Implementation of remote sensing technologies and satellite imagery for real-time monitoring of soil water management and crop health.
- Emerging Challenges and solutions for irrigation, drainage and water conservation in light of climate change
- Application of Geographic Information Systems (GIS) in watershed management
- Development of advanced soil and water conservation measures, including modeling soil erosion processes through various AI-driven decision support systems.
- Integration of wastewater for irrigation to alleviate pressure on freshwater resources, policy and governance for integrated water resource management

2. Farm Machinery and Renewable Energy Sources for Sustainable Agriculture

- Future trends in farm machinery and power systems including GPS-guided tractors, drones, and sensors, to optimize field-level management with precise sowing, weeding, planting, and harvesting.
- Implementation of automation and AI for sustainable agriculture practices aimed at minimizing soil disturbance and resource consumption.
- Precision farm machinery approaches to refine precision farming techniques, ensuring precise application of inputs and minimizing the ecological footprint and ergonomics.
- Integration of data analytics and artificial intelligence in farm machinery to enhance decision-making, allowing farmers to adapt practices based on real-time insights.
- Embracing renewable energy sources such as solar, wind, and biomass to reduce the carbon footprint associated with conventional energy use, leading to a more resilient and self-sufficient agricultural system.

3. Engineering Solutions for Agricultural Processing and Value Addition

- Integration of precision sorting and grading equipment to enhance the quality of harvested produce, ensuring consistency and uniformity.
- Implementation of intelligent processing machinery that minimizes energy consumption while efficiently handling the processing of agricultural products.
- Utilization of state-of-the-art packaging equipment designed to extend the shelf life of produce, maintaining freshness and quality.
- Application of precision engineering for the development of value-added products, optimizing formulations and processes for nutritional content, taste, and overall quality.
- Deployment of IoT devices and sensors in storage facilities to monitor temperature, humidity, and gas levels, enabling real-time adjustments to storage conditions and minimizing spoilage.
- Utilization of artificial intelligence and machine learning algorithms to assess the quality of harvested produce, aiding in decision-making processes related to sorting and grading.
- Employment of precision-controlled systems for dehydration and preservation processes, effectively extending the shelf life of fruits and vegetables.
- Implementation of precision agriculture for real-time inventory tracking, utilizing blockchain and RFID technologies for traceability throughout the supply chain, ensuring transparency and accountability.

4. Advancements in Sustainable Crop Production Technologies: Seed to Harvest

- Genetic engineering and breeding techniques for the development of high-yielding, drought-resistant, and disease-resistant crop varieties, ensuring food security amidst changing environmental conditions.
- Improved seed technology and agronomical practices such as conservation tillage, cover cropping, and crop rotation optimize yields, improve soil health, conserve water, and reduce greenhouse gas emissions.
- Adoption of more targeted and efficient pest control approaches, including the use of beneficial insects, microorganisms, and biopesticides, as well as integrated disease pest management strategies, reduces reliance on chemical pesticides and promotes environmentally friendly and sustainable pest control practices.
- Advancements in diagnostic tools, including molecular techniques, sensors, and imaging technologies, enable accurate and rapid detection of plant diseases, facilitating timely interventions and reducing crop losses.
- Advance tools and techniques to analyze market trends, demand patterns, and pricing dynamics, enabling informed decision-making and enhancing market competitiveness for farmers and agricultural stakeholders.

5. Soil Health Management and Plant Nutrient Optimization

- Utilization of advanced sensing and monitoring technologies to assess soil health parameters such as nutrient levels, organic matter content, and microbial activity, enabling real-time decision-making in agriculture.
- Implementation of modern soil testing methods and strategies aimed at enhancing nutrient use efficiency, including the use of slow-release fertilizers, foliar applications, and nutrient management planning, to minimize excess nutrient runoff and losses.
- Incorporation of practices to enhance soil organic carbon levels, including organic and natural farming practices that prioritize soil health, biodiversity, and reduced reliance on synthetic inputs.
- Implementation of educational programs and extension services to empower farmers with knowledge about sustainable soil and nutrient management practices, promoting adoption and continuous improvement in agricultural practices.
- Integration of bio fertilizers and organic amendments to enhance nutrient availability, soil structure, and overall soil health, promoting sustainable soil management.
- Employment of machine learning models for predictive soil health assessment, aiding in proactive decision-making and optimizing soil management practices for improved agricultural productivity and sustainability.

6. Precision and AI Synergies for Sustainable Horticultural Practices

- Development of crop varieties for specific horticultural conditions, enhancing resistance to climate, diseases, improving yield, and enhancing nutritional profiles for healthier produce.
- Implementation of AI-driven climate control systems in greenhouses, incorporating AI-powered sensors and monitoring systems for real-time data collection on environmental factors, soil health, and crop status. This enables precise adjustments to irrigation, fertilization, and pest control, optimizing growth conditions. Advances in protected cultivation.
- Adoption of vertical farming and controlled-environment agriculture techniques such as hydroponics, aeroponics, and aquaponics to maximize space utilization and resource efficiency, ensuring sustainable horticulture production.
- Advancements in Pomology (fruit cultivation), Olericulture (vegetable cultivation), and Floriculture (flower cultivation) for sustainable horticulture production, incorporating innovative practices and technologies to improve productivity and environmental sustainability.
- Implementation of AI-enhanced value chain management systems to track horticultural products from farm to consumer, facilitating informed decisions regarding production planning, resource allocation, and risk management throughout the supply chain.

Clientele

The conference invites a vibrant mix of attendees, spanning scientists, researchers, educators, students, government officials, innovative farmers, and budding entrepreneurs across the globe from Agriculture, Agricultural Engineering, Horticulture, Forestry, Agri Business Management and other allied sectors, fostering a dynamic exchange of ideas and expertise.

Call for Abstract/Paper

Abstract

The abstract of unpublished research work should be in English using MS word (Single space; Font Times New Roman; Font size- 12) and should not exceed 350 words. It must contain title of the paper, name(s) of author(s) followed by their affiliation, e-mail of corresponding author and keywords. The name of presenting author should be underlined.

Full Length Paper

Full length paper must be original, ethical, with key burning issue, less than 15% plagiarism, unpublished, English languages, MS Word, Times New Roman, 12 Fonts with single line spacing and with Abstract, Key words, Introduction, Material and Methods, Results and Discussion, conclusion and references (not exceeding 6000-7000 words).

The soft copy of the abstracts/ full length papers should be sent through **Email id: coeswm@jau.in**

Presentation during Conference

Oral Presentation: Among the accepted abstracts, selected papers will be considered for oral presentations under each of the technical sessions. Each oral presentation would be allotted 8- 10 minutes. Power Point Presentation with not more than 15 slides of the same is required to be handed over in the respective sessions.

Poster Presentation: Separate Poster Sessions covering all the themes will be organized to encourage wider interaction and information sharing. All the participants are requested to prepare their posters in portrait mode with dimensions of 36" x 24" (3 feet height X 2 feet length). Poster must include the title, Authors Name, Affiliation, Introduction, Objectives, Material and Methods, Results and Discussion and Conclusion. Clear pictures, diagrams, graphs and short tables are highly encouraged to use.

Interaction of progressive farmers with scientists & Industry: The conference program is tailored to equip farmers with new skills and knowledge in technology-driven development. An Open Session will be organized during the conference, offering farmers a platform to express their views to experts and seek solution to their challenges. This initiative aims to develop the recommendations focused on farmers' needs.

Conference Presentation Award

- **Best Oral Presentation Award**

- **Best Poster Presentation Award**

Note: No need to apply for these awards. Top three Winners of these awards for each theme will be decided during the conference.

Registration Fee Details

Type of Delegates	Early Birds (Upto 15/11/2024)	Late Registration	Spot Registration
Students	₹ 2,500/-	₹ 3,500/-	₹ 4,500/-
JRF/SRF/RA/YP-I & II & Equivalent	₹ 4,500/-	₹ 5,500/-	₹ 6,500/-
Faculty/Scientists/Delegates/Working Professionals	₹ 7,500/-	₹ 8,500/-	₹ 9,500/-
Industry/Corporate/NGO Professionals	₹ 15,000/-	₹ 15,000/-	₹ 15,000/-
Accompanying Person	₹ 2000/-	₹ 2000/-	₹ 2000/-
Foreign Delegates	US \$ 200	US \$ 250	US \$ 300

Special Note:

- One full length paper will be published in conference ISBN book per registration, only after payment of registration fees.
- Conference registration fee is Non-Refundable and Non-Transferable
- Registration fee includes access to conference sessions, conference kit and Refreshments only.
- Registration kit will not be provided to accompanying person.

Accommodation

- Registration fee does not include accommodation charges.
- Accommodation at the university guest house is limited and will be allocated on a first-come, first-served basis upon payment.
- Apart from this 3/4/5-star Hotels are available near by conference venue, list of hotels will be shared on conference website. (<https://ictpairs.in>)

Dates to Remember

Last Date for Receipt of Abstract	August 31, 2024
Notification of Acceptance	September 10, 2024
Last Date for Receipt of Full Paper	October 15, 2024
Last Date for Receipt of Registration Form	November 15, 2024
Conference Dates	January 23-24, 2025

Publications

Journal /Book	Publishing Charges
Conference Book with ISBN Accepted Full length papers will be published as book chapters in conference proceedings with ISBN by a reputed publisher.	Book Chapters Publication Charges are included in registration fee.
Plant Archives Accepted full length papers will be published in special issue of plant archives an International Journal upon payment of Publication Charges. NAAS Rating -5.59 (2024) ISSN:0972-5210. Open Access, Indexing and Peer Review Journal	₹ 2500/- * Per Paper

* Author must adhere to specific journal guidelines throughout the submission process. The editor's decision regarding the publication in the journal will be conclusive.

How to Apply

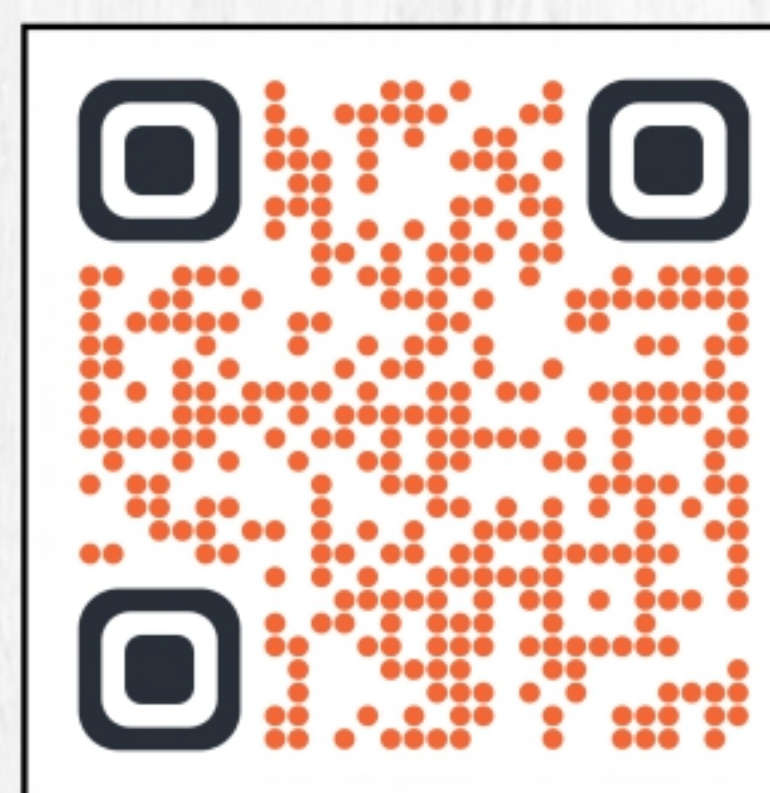
The registration form can be filled online through <https://ictpairs.in>. Payment of the registration fee can be made on-line in the following account details or scanning QR code.

Name of Current Account:	Convener, WMCSA
Name of the Bank:	SBI, JAU Campus Branch, Motibaugh, Junagadh, 362001 (Gujarat) India
Current A/C No:	34415380738
IFSC Code:	SBIN0010980
MICR Code:	362002007

Note:

- (1) Students seeking concession in registration fee, should submit the bonafide certificate as well as RA/SRF/YP & equivalent must submit certificate attested by PI
- (2) Receipt of online payment must be uploaded with the registration form

Those who make the online payment must upload the receipt of the transactions for ready reference of the organizing committee along with registration form.



Scan or Click
for Registration



Scan for Payment

Organizational Sponsorship

Govt./Semi Govt. Agencies, Corporate entities, industries, NGOs, research institutions, and academic organizations are welcomed to support the event through sponsorship, with the following tariffs:

Platinum sponsor fee: ₹ 2,00,000/- or above

- Full registration for four delegates
- Company/Institute name and logo will be displayed on conference brochure, web page and promotional material like; proceedings, volume, banner/signage etc.
- 15 min time slot for technical presentation in the session of your choice (except inaugural, valedictory sessions)
- Space will be provided at conference venue for display of products/ information/ technologies

Golden sponsor fee: ₹ 1,50,000/-

- Full registration for three delegates
- Company name and logo will be displayed on conference brochure, web page and promotional material like; proceedings, volume, banner/signage etc.
- Space will be provided at conference venue for display of products/ information/ technologies

Silver sponsor fee: ₹ 1,00,000/-

- Full registration for two delegates
- Company name and logo will be displayed on conference brochure, web page and promotional material like; proceedings, volume, banner/signage etc.
- Distribution of Literature/ Brochures etc.

Bronze sponsor fee: ₹ 50,000/-

- Full registration for one delegate
- Company name and logo will be displayed on conference brochure & web page.
- Distribution of Literature/ Brochures

Advertisement in Souvenir/ Proceedings and Book volume

Front Cover Colour Page	₹ 1,50,000/-
Back Cover Colour Page	₹ 1,25,000/-
Inside Full Colour Page	₹ 1,00,000/-
Inside Half Colour Page	₹ 50,000/-
Inside Full B/W Page	₹ 50,000/-
Inside Half B/W Page	₹ 25,000/-

Places of Tourist Interest



Asia's Longest Girnar Ropeway



Girnar Nature Safari



Sakkarbaug Zoological Garden



Uparkot Fort



Shree Somnath Jyotirlinga Temple



Gir National Park



Dwarkadhish Temple






Shivrajpur Beach

Weather:

We anticipate pleasant weather in Junagadh during January 2025. The maximum temperature recorded is 30 °C and the minimum of 13°C. The Winter in Gujarat is from November to February, with the temperature usually between 13°C and 33°C. The weather in the winter of Gujarat is comfortable enough to walk outdoors and enjoy the local sights.

How to Reach

-  **By Air :** The nearest airports are Rajkot (103 Km), Jamnagar (150 Km) and Ahmedabad (350 Km), which is connected to many Indian cities by regular flights operated by several airlines.
-  **By Road :** A convenient road network connects Junagadh to important cities in Gujarat and western India. Cities like Ahmedabad (350 Km), Rajkot (103 Km) are well connected by road to Junagadh.
-  **By Rail :** Junagadh railway station is on the broad gauge line.

Knowledge Partners



Farmers, Scientists and Industry Meet Supported by



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Dr. Sanjay Kumar Singh, Director, IIHR, Bengaluru
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Dr. Rajesh Kumar Vishwakarma, Project Coordinator, AICRP on PHET, Ludhiana
Dr. Shashank Singh, Assistant Dean, ILRT, Bhopal, MP.

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