

Workshop on
Artificial Intelligence for Plantation Crops



28-29 September 2018

at

**ICAR-Central Plantation Crops Research Institute
Kasaragod – 671124**



Organised by

**ICAR-Central Plantation Crops Research Institute, Kasaragod
Indian Institute of Plantation Management, Bengaluru
Indian Society for Plantation Crops. Kasaragod**

Introduction

Plantation crops grown in an area of 3.7 million hectare providing livelihood security for more than 30 million people contribute Rs. 250 billion to GDP. The skilled human labour force, which is the major requirement for the cultivation of plantation crops, is declining. Mechanization and use of AI is the prime requirement to overcome the scarcity of skilled labour availability. The resource availability for farming is also on decline and the climate change is affecting the plantation crops. Mean while it is inevitable to increase the production for meeting the demand of increasing population. Judicious use of scarce resources is essential for sustained productivity in the coming years. So precision farming, timely diagnosing plant protection problems and making different operations easier in farming are the need of the day.

The rise of digital agriculture and its related technologies has opened a wealth of new opportunities. Remote sensors, satellites, and UAVs can gather information in real time. These can monitor plant health, soil condition, temperature, humidity, etc. The success in this field can be achieved by building a solid foundation covering the most popular and widely used Artificial Intelligence & Machine Learning Technologies and applications including Deep Learning, Computer Vision, Natural Language Processing, Intelligent Virtual Agents, Neural Network, and many more in the agricultural sector. Thus, there is a need to reorient the ongoing research to develop data which is useful to develop gadgets with Artificial Intelligence.



Although the work on use of Artificial Intelligence in agriculture has been initiated in many Institutes, the potential is not explored in many areas. There is a need to bring together the agricultural scientists, engineers, entrepreneurs and other stake holders for creating awareness and developing need based gadgets for improving efficiency of farming. With this background, the workshop would be organized jointly by ICAR-CPCRI, Kasaragod, Indian Institute of Plantation Management, Bengaluru and Indian Society for Plantation Crops.

Objectives

1. The feasibility of using AI in plantation crops
2. Road map for effective utilization of AI in plantation crops

Scientific Sessions

Session 1 – Precision plantation farming

Session 2 – Tree climbing, pollination, harvesting and spraying

Session 3 – Detection and management of pests and diseases

Session 4 – Digital Transformation and Data Analytics for R&D



Programme

The workshop includes invited lectures from academia and industry followed by panel discussions. The participants can provide inputs during discussion for preparing roadmap on usage of AI in plantation crops.

Registration

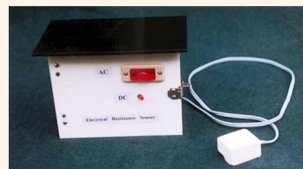
All the participants are requested to fill up the attached Registration form and to send it to the Organizing Secretary, at the address given below before the due date. For accommodation, local travels, venue, etc. participants are requested to contact Organizing Secretary.

Registration fee is Rs. 3000/- for Professionals/Academicians and Rs. 1500/- for Students and Research Fellows. Registration fee is to be paid in advance on or before September 10, 2018 through NEFT in favour of "ISPC" CPCRI, Kasaragod (A/c No. 10510439103, Branch code- 010560, IFS Code: SBIN0010560).

Important Dates

Date of Workshop -28-29, September 2018

Last Date for Registration -10th September 2018



Accommodation

Limited accommodation is available in Institute Guest House. For others accommodation will be arranged in hotels near the workshop venue for which request is to be sent along with the registration form. Please add one day tariff along with the registration fee. The tariff rates are given below.

Type	Standard	Economy
A/C	Rs. 1000	Rs. 1500
Non A/C	Rs. 500	Rs. 1000

About Kasaragod

CPCRI Headquarters is located at Kasaragod district of Kerala which lies in the heart of the major coconut growing areas of the country. CPCRI is 5 km away from Kasaragod and 51 kms away from Mangalore on the Mangalore-Kasaragod road. Nearest railway station is Kasaragod, about 5 km and nearest airport is Mangalore, about 60 km. Geographically it is situated at 12° 30' N latitude and 75° 00' E longitudes with an altitude of 10.7m above MSL.

Chief Patron

Dr. Trilochan Mohapatra

Secretary, DARE & DG, ICAR
Krishi Bhavan, New Delhi 110 001

Patron

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Advisor

Dr Kota Harinarayana

Founder Chairman, General Aeronautics Pvt. Ltd
Entrepreneurship Centre
Society for Innovation and Development
Indian Institute of Science, Bengaluru - 560012

Organizing committee:

Chair persons

Dr P. Chowdappa

Director
ICAR-CPCRI, Kasaragod - 671124, Kerala

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Organizing Secretary

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Secretary ISPC
ICAR-CPCRI, Kasaragod - 671124

Registration Form

1. Name :
2. Designation :
3. Office address :
4. Address for correspondence :

5. Contacts Telephone : Mobile :
Fax : Email :

6. Accommodation need : Yes/No Type:

7. Registration fee details : _____

Date _____ Rs. _____ Name of Bank and Branch _____

Signature