

BRAINSTORMING SESSION ON

HOW SMART IS AGRICULTURE WITH AI ?



July 6, 2024 (Saturday)

Venue : University of Agricultural Sciences (UAS), Dharwad

ORGANISED BY

The Indian Society of Agricultural Information Technology (INSAIT) (https://insait.org/)

In collaboration with University of Agricultural Sciences (UAS) Dharwad

The demand for agricultural produces keeps on increasing along with population growth and changes in lifestyle of people, production of enough material using limited resources is hard without the help of innovative technologies. Man-machine interaction especially Artificial Intelligence (AI) is the concept that can potentially transform the present-day agriculture to a 'produce more from less inputs' model. Al influences crop production many ways particularly through proper distribution of seeds, fertilizers and other agricultural chemicals, automated irrigation scheduling, monitoring soil, crop and animal health, surveillance of pests and diseases, and farm machinery positions in the field. Al and Internet of Things (IoT) (sensors) can be used to create intelligent systems that can be embedded in machines to make it work with higher accuracy. These technologies help in the spatial and temporal evaluation of individual plots or plants. Making use of concepts like big data analytics, precision agriculture, and IoT to measure agriculture quantitatively and improved crop yield with less exploitation of environment, low input use, and cost.

ABOUT INSAIT

Information is just as critical a resource for people in rural areas as it is for those in urban areas. Instant access to information on the availability of inputs, financial resources, technological innovations and changing market conditions has become critical to the viability of the rural economy. How well the rural areas can respond to this information challenge will play a significant role in determining the future well-being of the rural communities, especially in developing countries like India. In this context, it is prudent to extend the benefit of IT to agriculture and allied industries. In the future, there is tremendous potential for growth in this sector. Efforts in this direction would help extend the benefits of technological advances to rural people. As a first step in this direction, the Indian Society of Agricultural Information Technology (INSAIT), a professional society, was launched at Dharwad in 2000. INSAIT has organized several scientific meetings, workshops, and national and international conferences, including APFITA twice in 2006 and 2018. The key objectives of INSAIT are to mobilize farmers, scientists, institutions and organizations to promote agricultural IT, to encourage teaching, research and extension activities in all aspects of agricultural IT, to provide a forum for information exchange and dissemination of agricultural information technology and organize training programs and conventions and publish scientific information through different media to benefit the farming community.

In order address the emerging field of AI in agriculture and sensitize the members of INSAIT and public in large, INSAIT planned one day Brainstorming Session on "How Smart is Agriculture with AI?" to discuss on the topic with invited speakers and members of the INSAIT on 6th July, 2024 at UAS, Dharwad. Please watch out for updates in the INSAIT website (*https://insait.org/*)

Time	Activity	Speaker(s)
10.00 - 10.30	Inaugural Session	Invited Dignitaries
10.30 - 11.15	Invited Lecture	Dr. Anil Rai, Assistant Director General (ICT), ICAR, New Delhi
11.15 - 12.00	Invited Lecture	Shri Ravinkumar Sivalingam Head of Strategy and Business Development Digital Food Initiatives, Tata Consultancy Services (TCS), Chennai
12.00 - 13.00	Pannel Discussion	Invited Pannel of Experts
13.00 - 13.30	General Body Meeting	INSAIT Life Members
13.30 - 13.40	Valedictory Session	

TECHNICAL PROGRAMME

ORGANISING COMMITTEE

- Prof. J. Adinarayana, President Professor, Centre of Studies in Resources Engineering (CSRE), Indian Institute of Technology (IIT Bombay), Mumbai
- Dr. Sanjay Chaudhary, Vice-President
 Dean and Professor, School of Engineering and Applied Science, Ahmedabad University, AHMEDABAD
- Dr. V. C. Patil
 Former President, INSAIT (Ex-Officio) and Former Dean (Agriculture), University of Agricultural Sciences, Raichur
- Dr. G. P. Obi Reddy, Secretary
 Principal Scientist & Head, Division of Remote Sensing Applications, ICAR-NBSS & LUP, NAGPUR
- Dr. Lokanath H. Malligawad, Treasurer Former Dean (Post Graduate Studies), University of Agricultural Sciences DHARWAD
- Dr. P. L. Patil
 Vice-Chancellor, University of Agricultural Sciences, DHARWAD
- Dr. Manjit Singh Dean (FMPE), Punjab Agricultural University, LUDHIANA
- Dr. C. Jeganathan
 Professor and Head, Department of Remote Sensing Birla Institute of Technology (BIT), Mesra, RANCHI
- Dr. P Krishna Reddy
 Professor, International Institute of Information Technology (IIIT), HYDERABAD
- Dr. Rajni Jain
 Principal Scientist, ICAR-National Institute of Agricultural Economics and Policy Research NEW DELHI
- Dr. D. K. Prabhuraj Director, Karnataka State Remote Sensing Application Centre (KSRSAC), BENGALURU
- Dr. U. K. Shanwad
 Scientist (Agronomy), University of Agricultural Sciences, DHARWAD
- Dr. C. P. Chandashekhar Professor of Agronomy, University of Agricultural Sciences, DHARWAD
- Dr. Suresh K. Ukarande Principal, K. J. Somaiya Institute of Engineering and Information Technology, MUMBAI

CONTACT

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