Theme 8: Next Generation Technologies: Digital Agriculture, Precision Farming and AI-based Systems

Theme Convenor
Dr. Rajender Parsad
Director, IASRI

Date: 12 October 2023
Time: 10.45 - 12.45 hrs.
Venue: Sini 2

Technical Session 1 (Theme 8-TS-1)
Digital Agriculture

Session Coordinator: Dr. Alka Arora, ICAR-IASRI

Co-Chair I	Co-Chair II
Dr. R.C. Agrawal	**Dr. P.S. Pandey**
DDG (Education)	VC, RPCAU, Pusa Samastipur, Bihar
Rapporteur I	**Rapporteur II**
Dr. Eldho Varghese, ICAR-CMFRI	**Dr. K.G. Mini,** ICAR-CMFRI

Speaker	Topics	Duration
Dr. J. Adinarayana Professor, Centre of Studies in Resources Engineering (CSRE) Indian Institute of Technology - Bombay (IITB)	**Keynote Lecture** AIIA (Assimilate, Interpret, Innovate and Adapt) Model in Smart Agriculture	30 min
Dr. E.V.S. Prakasa Rao Former Advisor, CSIR-Fourth Paradigm Institute	**Invited Lecture** Digital Agriculture for Agri-Food Systems Disruption in India- Prospects and Problems	20 min
Dr. Ajit Govind Senior Climatologist and Systems Modeler Acting Head Geo Agro ICARDA, Egypt Email: A.Govind@cgiar.org	**Invited Lecture** Digital Transformation of Agricultural Sector in the Global Drylands: Digital Tools, Stakeholder Engagement, and Scaling	20 min
Dr. Rabi N. Sahoo Principal Scientist, ICAR-IARI	**Invited Lecture** Getting ready for Next Leap in Precision-AG Innovations: Challenges and Opportunities	15 min
Dr. S.K. Chakraborty ICAR-CIAE Nabibagh, Berasia Road, Bhopal	**Invited Lecture** Compact field savvy instrument for rapid detection of aflatoxins-B1 in maize using a hyperspectral imaging system with machine learning	15 min
Discussion		15 min
Co-Chairs' Remarks		5 min

Technical Session 2 (Theme 8-TS-2)
Artificial Intelligence based Systems
Session Coordinator: Dr. Sudeep Marwah, ICAR-IASRI, New Delhi

Co-Chair I	Co-Chair II
Prof. Gajendra Singh	**Dr. Anil K. Singh**
Emeritus Prof., AIT	EX VC, RVSKVV

Rapporteur I	Rapporteur II
Dr. Sreenath K.R., ICAR-CMFRI	**Dr. Abdul Azeez,** ICAR-CMFRI

Speaker	Topics	Duration
Dr. Sanjay Chaudhary Professor and Associate Dean School of Engineering and Applied Science Ahmedabad University Email: sanjay.chaudhary@ahduni.edu.in	**Keynote Lecture** Artificial Intelligence Systems for Agriculture	30 min
Dr. Alka Arora ICAR-IASRI	**Invited Lecture** Artificial Intelligence: Case Studies in Indian Agriculture	20 min
Dr. Satyajit Dwivedi Regional Director EMEAP, SAS Email: satyajit.dwivedi@sas.com	**Invited Lecture** Opportunities and challenges in application of AI in building innovative climate-smart digital agriculture solutions	20 min
Dr. J. Jayasankar Head, FRAEE Division ICAR-CMFRI Email: jjsankar@icar.gov.in	**Invited Lecture** Charting the Future of Marine Fishery Resource Management: Harnessing Artificial Intelligence Systems for Exploration and Sustainable Utilization	20 min
M/s. Anil Pareek Ltd.	Use of Technology in Agriculture/Digital Agriculture	15 min
Discussion		15 min
Co-Chairs' Remarks		5 min