



**54th Annual Convention of Indian Society of Agricultural Engineers (ISAE)
and
International Symposium on Artificial Intelligence Based Future
Technologies in Agriculture**

January 7-9, 2020

Venue: Hyatt Regency, Vimannagar, Pune, India

Technical Programme in Brief

Date: 7 January, 2020

Time	Location	Session and Resource Persons
09.00-17.00	Lounge	Registration of delegates
10.00-11.35	Conference Hall	Inaugural Function
11.35-12.00	Lobby/Lounge	Health break, Tea and Networking
12.00-13.00	Conference Hall	Theme Session (Key note speeches) Agricultural Engineering Technologies for Start-ups Artificial Intelligence Based Future Technologies in Agriculture
13.00-14.00	Dining Hall/Lobby	Lunch
14.00-15.30	Conference Hall	Industry Session-I Machineries: farm and process machineries (including precision machineries, robotics and drones) Industry-Academia-Students-Farmer Interface
15.30-16.00	Lobby	Health and tea break, Networking
16.00-17.30	Conference Hall	Industry Session-II Technologies (including AI, IoT, Automation, Geo-Informatics, Web-Mobile apps) Industry-Academia-Students-Farmer Interface
17.30-18.30	Conference Hall	General Body Meeting
20.00-22.00	Dhankude Farms, Baner, Pune	Dinner

Date: 8 January, 2020

Concurrent Sessions

Concurrent Session-1		
Time	Location	Session
09.30-11.00	Conference Room 1	Processing, Dairy and Food Engineering Session 1: (i) Agricultural Crops Processing, (ii) Value Added products, Dairy and Fish Processing and Entrepreneurship Development
	Conference Room 2	Soil and Water Engineering Session 1: Hydro-Geo-Informatics and Modeling
	Conference Room 3	International Symposium Theme 1: Big data driven Artificial Intelligence & Future of Agriculture: (Visionary AI in Agriculture overview talks, Satellite/Climate data driven AI for Agriculture, Role of AI in Genomics/Phenomics, etc)
	Conference Room 4	Energy and Other Areas Session 1: Biomass and Bio Energy
	Conference Room 5	Farm Machinery and Power Session 1: Mechanisation, tillage and seeding

11.00-11.30

High Tea

Concurrent Session-2		
Time	Location	Session
11.30-13.00	Conference Room 1	Processing, Dairy and Food Engineering Session 2: (i) Emerging Technologies, (ii) Packaging, Storage and Transportation
	Conference Room 2	Soil and Water Engineering Session 2: On Farm Water Management
	Conference Room 3	International Symposium Theme 2: Ground and Aerial Robotic solutions in AI Era (Ground robotic solutions, Drones for imaging and crop inputs management)
	Conference Room 4	Energy and Other Areas Session 2: Solar Energy
	Conference Room 5	Farm Machinery and Power Session 2: Plant protection

13.00-14.00

Lobby/Lounge

Lunch

Concurrent Session-3		
Time	Location	Session
14.00-15.30	Conference Room 1	Processing, Dairy and Food Engineering Session 3: Horticultural Crops Processing
	Conference Room 2	Soil and Water Engineering Session 3: Water Requirement and Climate Change (WRCC)
	Conference Room 3	International Symposium Theme 3: Internet-of-Things and farm connectivity: (Smartphone Apps for real-time decision making in Food production supply chain, Farm connectivity, Smart Irrigation, AI driven control & actuation at farm level etc)
	Conference Room 4	Energy and Other Areas Session 3: Other Areas
	Conference Room 5	Farm Machinery and Power Session 3: Harvesting and Threshing

15.30-16.00 Lobby/Lounge Tea

Deans Meeting

Time	Location	Session and Resource Persons
15.30-17.30	Board Room	Meeting of Deans of Faculty of Agricultural Engineering

Concurrent Session-4		
Time	Location	Session
16.00-17.30	Conference Room 1	Processing, Dairy and Food Engineering Session 4: (i) Horticultural Crops Processing (Contd. From previous session), (ii) Fibres, Resins, Gums and Misc. Products Processing, (iii) Environment Control and Structures
	Conference Room 2	Soil and Water Engineering Session 4: Watershed Management and Ecological Services
	Conference Room 3	International Symposium Theme 4: Precision to Digital Agriculture Technological Transition (Connecting the dots...emerging [non-trivial] technologies for crop production monitoring and management)
	Conference Room 5	Farm Machinery and Power Session 4: Ergonomics and safety in agriculture and Precision farming and ICT in agriculture

Concurrent Session-5		
Time	Location	Session and Resource Persons
17.30-18.30	Conference Room 2	Soil and Water Engineering Session 5: Groundwater and Drainage Management
	Conference Room 3	International Symposium Theme 4: Application of AI in agriculture and water resources

**20.00-22.00 Dhankude Farms, Dinner
Baner, Pune**

Date: 9 January, 2019

Time	Location	Session
09.30-11.00	Conference Hall	Plenary Session: Agricultural Engineering Technologies for Star-ups and Artificial Intelligence Based Future Technologies in Agriculture
11.00-11.30	Lobby	Health break, Tea, Networking
11.30-12.30	Conference Hall	Concluding Session

12.30-13.30 Dining Hall/Lobby Lunch

13.30-14.30 Transfer to College of Agriculture, Pune		
15.00-17.30	Shirname Auditorium, College of Agriculture, Pune Auditorium	Farmers Session
15.00-17.30	Seminar Hall, College of Horticulture, Shivajinagar, Pune	Students Session