Technical Programme of Virtual Workshop on

'Data Science for Agriculture and Natural Resource Management (DSANRM2020)'

On December 16, 2020

(Being organized as a part 8th International Conference on Big Data Analytics (BDA- 2020))

Time	Title	Speaker
09.00-10.00	Inaugural Session	
09:00-09:05	Welcome the Guests	Dr. G.P. Obi Reddy Workshop Chair
09:05-09.10	Welcome Remarks	Prof. Sanjay Chaudhary Interim Dean and Professor, School of Engineering and Applied Science; Dean of Students, Ahmedabad University, Ahmedabad, India
09:10-09:30	Future Plans of Big data Analytics in Agriculture	Prof. P. Krishna Reddy Professor, International Institute of Information Technology, Hyderabad, India
09:30-10:00	Inaugural Address	Dr. Suresh Kumar Chaudhari Deputy Director General (NRM), Indian Council of Agricultural Research, New Delhi, India
10:00-12:30	Technical Session I: Data Science for Agriculture (Invited Speakers) Session Chair: Prof. J. Adinarayana Institute Chair Professor, CSRE, IIT Bombay, India	
10:00-10:30	A cyber physical systems approach to agricultural sustainability	Prof. Soumik Sarkar Associate Professor, Department of Mechanical Engineering and Department of Computer Science Iowa State University, USA
10.30-11.00	A paradigm-shift in global cropland maps and products for food and water security in the twenty-first Century: Petabyte scale satellite big-data analytics, Machine learning, and cloud computing	Dr. Prasad S. Thenkabail Supervisory Research Geographer-15, US Geological Survey, Flagstaff, Arizona, USA
11:00-11:30	An emerging domain, phenomics for the next generation plant and agricultural sciences	Prof Seishi Ninomiya Graduate School of Agricultural and Life Sciences, University of Tokyo, Japan

11:30-12:00	'Disruptive innovations in	Prof. J. Adinarayana	
11.30-12.00	precision agriculture -	Institute Chair Professor & Head, CSRE,	
	towards BD analytics for	Indian Institute of Technology, Bombay	
	better GeoFarmatics	(IITB), Mumbai, India	
12.00 12.20	Crop Viold Prodiction using		
12:00-12:30	Crop Yield Prediction using Machine Learning	Prof. Pabitra Mitra, Professor, Computer Science &	
	Widefillie Learning	Engineering, Indian Institute of	
		Technology, Kharagpur, India	
12.30-16.30	Technical Session II: Data So	cience Applications in Natural Resource	
12.00 20.00	Management (Invited Speakers)		
	Session Chair: Dr. S.P. Wani, Former, Research Program Director – Asia		
	and Director, ICRISAT Development Center, Hyderabad, India		
12:30-13:00	Integrating UAV and field		
	sensor data for better	Edith Cowan University, Australia	
	decision making in broad acre		
	cropping systems		
13:00-13:30	Big-data and agro-eco region	Dr. S.P. Wani , Former, Research	
	driven agriculture for	Program Director – Asia and Director,	
	transformation	ICRISAT Development Center,	
		Hyderabad, India	
13.30-14:30	Lunch break		
14:30-15:00	Big Data Analytics for Climate	Dr. Navin Kumar C. Twarakavi	
	Resilient Supply Chains:	IBM Research Lab, India	
	Opportunities and Way		
	Forward		
15:00-15:30	Mapping croplands using	Dr. Murali Krishna Gumma	
	Machine learning algorithms	Head of Remote Sensing/Geographic	
	and spectral matching	Information System unit, ICRISAT,	
45 20 46 00	techniques	Hyderabad, India	
15:30-16:00	Computer vision for disease	Dr. Mehul S. Raval,	
	detection and severity estimation	Professor, School of Engineering and Applied Science, Ahmedabad	
	estimation	, , ,	
16:00-16:30	Innovative Geoportal	University, Ahmedabad, India Dr. G.P. Obi Reddy	
10.00-10.30	Platforms for Sustainable	Principal Scientist, Division of Remote	
	Management of Natural	Sensing Applications, ICAR-NBSS&LUP,	
	Resources	Nagpur, India	
16.30-17.30	Technical Session III: Data S		
10.50 17.50	16.30-17.30 Technical Session III: Data Science Applications in Agriculture Natural Resource Management (Voluntary Papers)		
	Session Chair: Prof. Pabitra Mitra, Professor, Computer Science		
	Engineering, IIT, Kharagpur, India		
17:30-17:50	Concluding Remarks	Prof. V.C. Patil	
		Director, KIAAR, India	
17.50-18.00	Vote of Thanks	Dr. Mehul S. Raval,	
		Workshop Chair	
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