

# **PROGRAM SCHEDULE**

Tin	ne	Tuesday (21.1.25)	
09:00	10:00	Registration	
10:00	10:30	Welcome Reception	
10:30	11:30	Conference Inaguration	
11:30	12:00	Tea/Coffee Break	
12:00	12:15	A tribute to Dominique Arrouays and Open discussion	
12:15 Dsiscussant	13:30	Session 1 : Digital Soil Mapping inputs: Sampling approaches and legacy soil data processing	
Chairperson		Budiman Minasny Suresh Kumar	
Session Secreta	197	Raj Setia	
Alberto Lázaro-	-López	sh national surveys for SOC estimation: influence of survey design and sampling scheme	
Krishna Kumar Soil Organic Ca	•	g Using Digital Soil Mapping Techniques of Arunachal Pradesh, India	
Luboš Borůvka	1		
Consistency of Laura Poggio	digital soil pro	operty maps based on results from different soil surveys in the Czech Republic	
Mapping of hig	hly organic so	il with the support of legacy soil atlases	
<b>Laura Poggio</b> Soil stocks: can	we quantify h	ow much soil there is globally?	
Saketh	use of Soil Hor	alth Cand (SLIC) as a big data source for geographic assessment of SOC anaticl variability in agricultural soils in India	
Evaluating the t Edward Smit	use of Soli Hea	lth Card (SHC) as a big data source for geospatial assessment of SOC spatial variability in agricultural soils in India	
Combining algo	prithm and dat	a level approaches to handle highly imbalanced soil data Lunch	
14:30	14:50		
14:30 15:00 Discussions			
	16:30	Session 2 : Boosting DSM with new covariates and soil sensing data	
15:00 I Dsiscussant		Session 2 : Boosting DSM with new covariates and soil sensing data Borůvka Luboš	
Dsiscussant		Borůvka Luboš	
Dsiscussant Chairperson Session Secreta Lagacherie	ry	Borůvka Luboš R.N. Sahoo	
Dsiscussant Chairperson Session Secreta Lagacherie Using the farme Radim Vašát	<b>ry</b> ers' knowledg	Borůvka Luboš R.N. Sahoo S. Chakraborthy e on soils increases the accuracy of local Digital Soil Mapping products : A case study in the Gopalapura village (India)	
Dsiscussant Chairperson Session Secreta Lagacherie Using the farme Radim Vašát	<b>ry</b> ers' knowledge oil Diversity-	Borůvka Luboš R.N. Sahoo S. Chakraborthy	
Dsiscussant Chairperson Session Secreta Lagacherie Using the farme Radim Vašát Introducing a S Zamir Libohova Distributed hyd	<b>ry</b> ers' knowledge oil Diversity- <b>a</b> Irological moo	Borůvka Luboš R.N. Sahoo S. Chakraborthy e on soils increases the accuracy of local Digital Soil Mapping products : A case study in the Gopalapura village (India)	
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Dsiscussant Chairperson Session Secreta Lagacherie Using the farme Radim Vašát Introducing a S Zamir Libohova Distributed hyd Somsubhra Cha Digital Soil Map Chiranjit Singha	ry ers' knowledge oil Diversity- a hrological moc akraborty oping of Avails a	Borůvka Luboš         R.N. Sahoo         S. Chakraborthy         e on soils increases the accuracy of local Digital Soil Mapping products : A case study in the Gopalapura village (India)         Based Covariate for Digital Soil Mapping Framework         lels – A Practical approach to quantifying Soil Forming Factor Model for Digital Soil Mapping         able Phosphorus using Smartphone-integrated Imaging Device	
Dsiscussant Chairperson Session Secreta Lagacherie Using the farme Radim Vašát Introducing a S Zamir Libohova Distributed hyd Somsubhra Cha Digital Soil Map Chiranjit Singha Novel Approach Girisha Ganjegu	ry ers' knowledge oil Diversity a trological moo akraborty oping of Availa a hes in Soil Sui inte	Borůvka Luboš R.N. Sahoo S. Chakraborthy e on soils increases the accuracy of local Digital Soil Mapping products : A case study in the Gopalapura village (India) Based Covariate for Digital Soil Mapping Framework lels – A Practical approach to quantifying Soil Forming Factor Model for Digital Soil Mapping	
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		Wednesday (22.1.25)	
09:00	00 10:30 Session 3 : Developing new DSM models and approaches		
Dsiscussant		D G Rossiter	
Chairperson		Vinay Dadhwal	
Session Secreta			
Stephan van de			
** *	nickness by ac	counting for right-censored data with survival probabilities and machine learning	
Mareike Liess	natural soil h	orizon boundaries in 3D modelling at national scale	
Nivas Raj M	nuturui oon n		
Nadu, India	efficiency of 1	D Residual Network with Random Forest for digital soil mapping of soil depth and textural classes for Teri soils of Tamil	
		using Deep Learning Algorithms – A Case Study of Perambalur District, Tamil Nadu, India.	
-	able spatial an	d temporal prediction models for estimating contemporary stocks of soil organic carbon	
Budiman Minas Assessing Soil (		n Dynamics in Australia using Pedogenon Map	
<b>Saketh</b> Application of 1 India (1975-201	Digital Soil Ma	pping with legacy soil data and remote sensing derived land use for mapping temporal changes in SOC density in Kerala,	
		Goil Organic Carbon in Traditional Rice-Fallow System of Eastern Himalayan Region	
Zhongxing che			
Monitoring soil	l organic carbo 11:00	on stock changes in Europe from 2009 to 2018 Discussions	
11:00	11:30	Tea break	
11:30	12:30	Session 4 : Evaluating DSM products	
Dsiscussant		TBD	
Chairperson		Sundar Balakrishna	
Session Secreta			
<b>D G Rossiter</b> Soil maps are n <b>Jonas</b>	nore than prec	lictors at points and we should evaluate them as such	
		collection for machine learning in digital soil mapping to improve benchmarking	
<b>Viacheslav Barl</b> A Model-Agnos		for Reliable Uncertainty Estimation in Digital Soil Mapping	
<b>Kerstin Rau</b> Quantifying spa	atial uncertain	ty to improve the prediction of soil properties in data-sparse regions	
Laura Poggio			
·	European high resolution soil quality products		
		Discussions	
13:00	14:00	Lunch	
14:00	15:00	Session 5 : Toward operational DSM	
Dsiscussant			
Chairperson		C.P.Reddy	
Session Secreta		Shabir Ahmed	
Blandine Leme	•		
Initiatives To P <b>Giulio Genova</b>	opularize The	Use Of Digital Soil Mapping approaches: Challenges and First Lessons In France	
Seedling: A User-Friendly, Scalable, and Collaborative Digital Soil Mapping Workflow			
Sundar balakrishna Open Source Software for Digital Soil Map – An Exploratory Study			
Nirmal Kumar Design and Development of National Soil Grid of India			
<b>G.P. Obi Reddy</b> BHOOMI Geoportal Platform - A robust land resource information system of India for sustainable agricultural land use planning			
Mark Tinah			
Revitalizing the Papua New Guinea Resource Information System and Capacity Development in Digital Soil Mapping. Shree Prasad Vista Divised Soil Map of Nanal Liese and Implications			
Digital Soil Map of Nepal: Uses and Implications Dhammaraian			
Dharumarajan		Digital Soil Mapping in India: history, achievement and perspectives	



15:00	16:00	Short Presentations	
Shabir Ahmed	•	on Estimation in Complex Terrains of Vechnic Himeleyes Heing Machine Learning Technicus	
× -	il Organic Carb	on Estimation in Complex Terrains of Kashmir Himalayas Using Machine Learning Techniques	
	Shovik Deb Soil organic carbon mapping of northern districts of West Bengal		
		of normern districts of west benga	
Amresh Chaud Advanced Soil		ment Using Digital Soil Mapping in Coastal Regions of Gujarat, India	
Justin George I	Kalambukattu		
High-Resolution	on Soil Texture	Mapping In The Hilly And Mountainous Terrain Of Northwestern Himalayan Region Using Machine-Learning Techniques	
Sudha Karbari			
Enhancing Cro	op Yield Detecti	ion Using Machine Learning: Mapping Soil and Climatic Factors in Mandya District, Karnataka	
Raj Setia			
L	soil organic car	bon fractions from hyperspectral data using machine learning and explainable artificial intelligence (XAI) techniques	
Vikas Sharma			
L	0 11	to Mapping Soil Organic Carbon – A Case Study of Jammu District	
Pravash Chand			
	pping for susta	inable agricultural management in the Thar Desert region of India	
Arijit Barman			
		gital Soil Mapping Techniques of Arunachal Pradesh, India	
	<b>Dr. R P Sharma</b> Mapping Key Soil Properties for District-Level Contingency Planning Using DSM: A Case Study of Morena District, Madhya Pradesh, India		
R.K. Naitam			
	l Depth Estima	tion: A Comparative Analysis of Digital Soil Mapping and Traditional Approaches	
Vasundhara. R			
Evaluation of o	Evaluation of digital soil mapping approach for predicting soil depth at farm scale-a case study from Karnataka Plateau, India		
Mahaveer Nog	Mahaveer Nogiya		
Mapping sub-surface distribution of soil organic carbon in the Hot Arid Region of India Using Machine Learning algorithm			
16:00	16:30	Tea break	
16:30	17:00	Short presentations (Continued)	
17:00	17:30	Discussions	
17:30	18:30	Poster Session 2	
18:30	19:00	WG Discussions and Indian Pedometrics Discussions	

19:00 20:00 **Conference Dinner** 

		Thursday (23.1.25)
09:00	10:30	Session 6 : New targets for DSM
Dsiscussant		Laura Poggio
Chairperson	hairperson Dr. S. Bandyopadhyay	
Session Secretar	y	George Van Zijl
<b>Budiman Minas</b> Global Digital M		atland Carbon Stocks
<b>Eucharia Nwaic</b> Addressing Sam		ainty in Digital Soil Mapping: Insights from Petroleum Hydrocarbon-Contaminated Soils
<b>Zhuodong Jiang</b> Predicting and r		occurrence of mattic layer ruptures in a valley area of Qinghai-Tibet plateau based on UAV measurements
Virginia Estévez Mapping of acid		l types in Laihianjoki river catchment: A multiclass classsification
<b>Quentin Styc</b> Creating Soil Dis	stricts for Au	stralia based on Pedogenon Mapping
<b>Srinivasan Rama</b> Integration of Pe Region of Decca	CA and fuzzy	clustering algorithm for delineation of Soil nutrient management zones and Economic analysis of fertilizers in the Arid dia
<b>Sudipta Chattara</b> Development of Jalpaiguri Distrie	High-Resol	ution Geo-Smart Soil Management Zone as an Agri-Technology Implementation Platform in Eastern Himalayan Foothills of gal
<b>Joshua M. Black</b> Improving effici		rmining plant available nutrient concentrations: Implications for digital soil mapping and land use planning in temperate soils
Feng Liu	<i>c</i>	
Digital mapping	ot soil erodi	bility in China



**Amelin Julien** Soil and plant biomass organic carbon stocks assessment and mapping in urban and naturals areas of Rennes metropolitan

Dr. Amrita Daripa Potential Soil Loss Estimation using Machine Learning and Geospatial Technology in part of the Eastern plateau and hill region of West Bengal George van Zijl

Towards a hydrological soil map of South Africa (Hydrosoil) 11:00 10:30 Discussions

11:00	11:30	Tea break

11:30 13:30	Session 7 : Communicating and using DSM products		
Dsiscussant	José Padarian		
Chairperson	TBD		
Session Secretary			
Anselme Bertin Takoutsing			
Modelling and mapping mai	ze yields and making fertilizer recommendations using uncertain digital soil mapping products as crop model inputs		
Laura Poggio			
Use of quadmap at continen	tal scale		
P. Lagacherie			
	municate the uncertainty of a digital soil mapping product? Some lessons from an end-user survey		
Asim Biswas Integrating Digital Soil Man	ping and Remote Sensing for Enhanced Soil Moisture Modeling		
Anilkumar Hunakunti	and non-construction of managed our monotal modeling		
	in NSW: An Approach based on Estimating the Soil's intrinsic Capacity measured by Capacity and Condition		
Svyatoslav Inozemtsev			
Assessing the annual rate of	soil erosion in the Central trans-Urals region (upper reaches of the Pyshma River)		
George van Zijl			
Digital soil mapping enables	sustainable road network design and off-road driving guidelines in game reserves		
Peter			
<u> </u>	n Australian Soils for Agricultural Suitability		
Kalaiselvi B Multi-criteria based land su	itability analysis using digital soil mapping derived soil products		
Udeme Sunday Akpan	taointy analysis using tigital son mapping derived son products		
	ery and Digital Elevation Model in Soil-landscape Mapping for the Cultivation of Orange and Purple Flesh Sweet Potato in		
Sandra Joy Pabustan Evange	lista		
	nent: The Capacity of soil to cycle nutrients in the Hunter Valley Wine Growing District, Australia		
Nicolas Francos			
Valuing And Integrating Soil	Roles In Assessing The Capital Dimension Of Soil Security: An Australian Case Study		
Julio Pachon			
	imension of the Soil Security Assessment Framework		
13:30 14:30	Lunch		
14:30 15:00	Discussions		
	Conclusions of the workshop		
15:30 16:00	Presentations of the discussants		
16:00 16:30	Tea break		
16:30 17:00	Closing ceremony		
	Friday (24.1.25)		
	Field Trip		



# **POSTER PRESENTATION SCHEDULE**

17:50	18:30	Poster session 1	
P-01	Lázaro-Ló		
P-02	Towards a state-wide monitoring network of soil organic carbon in agricultural soils of Spain Shuo-Peng Zhang High resolution mapping soil organic carbon and total nitrogen of mattic layers in alpine meadow ecosystem using multi-source information and machine learning		
P-03	Yiqi Lin Evaluating machine learning methods for predicting surface deposits across physiographic regionsin Sweden		
P-04	Soumik Das Digital soil mapping for natural resource management		
P-05	Seema Acharya Assessing spatial variability of soil properties under different land use: Study from two rural municipalities of Surkhet District, Nepal		
P-06	Karthika, I		
P-07	Anand S.	earning-driven soil organic carbon mapping for enhanced watershed management	
P-08	Gopal Tiw	ari	
P-09	Lal Chand		
P-10	Brijesh Ya		
P-11	Promod k	n of soil depth in Central Gujarat region using digital soil mapping approach umar Sharma	
P-12	C. Vairava		
	Prediction <b>E. Rajath</b>	of soil organic carbon content using soil reflected spectra: A comparison of different machine learning models	
P-13	Integrating <b>C. G. Kusu</b>	g PCA and machine learning for assessment and mapping of soil quality index in Cauvery command area of Karnataka ma	
P-14	Advancing	g Soil Nutrient Class Prediction Using Vis-NIR Spectroscopy: A Case Study in Karnataka, India <b>Chirag Rajendra</b>	
P-15	Assessing	nearest neighbour models for SOC prediction using VNIR lab spectroscopy	
P-16		ransfer functions for prediction of soil moisture constants	
P-17		g Vis-NIR spectroscopy for subsurface soil property prediction: Insights from Karnataka Plateau	
P-18	<b>Argha Bas</b> Applicatio soil	<b>u</b> n of a rapid geophysical sensing method for sustainable extraction of soil as raw material and attaining conservation of fertile	
P-19		Bandyopadhyay in remote sensing and GIS application in land resource inventory at cadastral level towards site specific land use planning	
P-20		ubramoniam Ition and mapping of Theri lands towards sustainable land use planning	
P-21	P. Nagases		
P-22	S. U. Birad		
P-23	<b>U.K. Maur</b> Problems	<b>ya</b> and potentials of LRI based soil survey using SOP-Acase study	
P-24	<b>M. M. Jagt</b> A spatial a		
P-25	<b>Nandita M</b> Evaluatior	landal 1 of ecosystem service under conservation agriculture practice in Haryana: quantification and geospatial mapping	

## ICAR-National Bureau of Soil Survey and Land Use Planning, Bengaluru, Karnataka, India



17:30	18:30 Poster session 2
P-26	<b>Sunil B.H</b> Land use, soil-landform relationship of Nandurbar District, North Maharashtra
P-27	<b>B S Bhople</b> Soil fertility mapping for physico-chemical characterization of PAU regional research station, Ballowal Saunkhri, Punjab, India
P-28	<b>N. Sushma</b> Spatial variability of nutrients in a watershed: Implications for ecosystem health and management
P-29	Manoj Kumar H. S Decoding soil erosion dynamics with RUSLE and advanced geospatial techniques
P-30	<b>Prava Kiran Dash</b> <b>E</b> nhancing watershed development in Kankadahada MWS Cluster, Odisha: leveraging digital soil mapping and land resource inventory through the LRI-Reward flagship program
P-31	<b>Praveenkumar B. Naikodi</b> Developing decision support system for site-specific management of soil & land towards sustainable enhancement of productivity-A case study
P-32	<b>Ravi Kumar</b> Exploring land degradation using trends. Earth: Insights from a research farm in Himalayan foothills
P-33	<b>Kuthumbare R. S</b> Digital Soil Map of VNMKV farm, Parbhani by using remote sensing and GIS techniques
P-34	<b>Biradar, I. B</b> GIS-driven assessment of soil fertility and strategies for health improvement in watershed areas
P-35	<b>Ravikumar D</b> Integrated RUSLE and geospatial analysis for quantifying and mapping soil erosion risk in tarikere taluk, Chikkamagaluru District, Karnataka
P-36	T <b>hippeshappa, G. N</b> . Assessment of soil fertility status and nutrient management approaches for sustainable agriculture using geospatial techniques in Vaderahalli Subwatershed of Challakere Taluk
P-37	<b>Prabha Susan Philip</b> Soil fertility mapping of selected panchayats in Palakkad region of Kerala
P-38	<b>Shunhua Yang</b> Vertical distribution and influencing factors of deep soil organic carbon in a typical subtropical agricultural watershed
P-39	<b>Lu Miao</b> How does soil salinization affect crop planting structures?
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