



41st INCA INTERNATIONAL CONFERENCE
October 27-29, 2021



Focal Theme

CARTOGRAPHY FOR SELF-RELIANT INDIA

Organised by
**Indian National Cartographic
Association (INCA)**

Hosted by
**Department of Geography Panjab
University, Chandigarh**

Venue: Golden Jubilee Hall, Panjab University, Chandigarh



41st INCA INTERNATIONAL CONFERENCE

October 27-29, 2021

PROGRAM DETAILS: DAY 1 (27 October 2021, Wednesday)



INAUGURAL SESSION (11:00 AM – 12: 00 PM)

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=mfbe70ec0acf13deb85be635777690cdb> Event number: 2644 849 8921 Event password: PUINCA1

<ul style="list-style-type: none"> ❖ <i>Saraswati Vandana</i> ❖ <i>Lighting the Lamp</i> ❖ <i>University Anthem</i> ❖ <i>Floral Welcome (11:00-11:05 am)</i> 	<p>CHIEF GUEST</p> <p><i>Shri Bandaru Dattatraya</i></p> <p><i>HIS EXCELLENCY, THE GOVERNOR OF HARYANA</i></p> <p><i>(11:30-11:40 AM)</i></p>		
<p><i>Address by Dignitaries</i></p> <p><i>(11:05 am-11:50 pm)</i></p>	 <p>THEME INTRODUCTION (11:05-11:10 am)</p> <p>Prof Krishna Mohan: President INCA Department of Geography Panjab University, Chandigarh</p>	 <p>INAUGURAL ADDRESS (11:10-11:20 am)</p> <p>Dr Shailesh Nayak Director, National Institute of Advanced Study, Bengaluru; Former Secretary, MoES, India</p>	 <p>KEY NOTE ADDRESS (11:20 am-11:30 am)</p> <p>Sh Naveen Tomar Surveyor General of India Government of India</p>
 <p>VICE CHANCELLOR ADDRESS (11:40-11:45 am)</p> <p>Prof Raj Kumar Vice Chancellor Panjab University, Chandigarh</p>	 <p>GUEST OF HONOUR REMARKS (11:45-11:50 am)</p> <p>Vice Admiral Adhir Arora Chief Hydrographer Government of India</p>		
<ul style="list-style-type: none"> ❖ <i>Felicitation of Guests, award winners, Release of Souvenir/Books/Maps (11:50-11:55 am)</i> 	<p>Vote of thanks (Prof Gaurav Kalotra, Organising Secretary) and Inauguration of Exhibition and Poster Gallery (11:55 am-12:00 Noon)</p>		

HIGH TEA (12:00 Noon - 12:30 PM)





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PROGRAM DETAILS: DAY 1 (27 October 2021, Wednesday)



Session Introduction: Secretary INCA

 <p>PRESIDENTIAL ADDRESS (12:30PM-12:40PM) Prof Krishna Mohan President INCA Department of Geography Panjab University, Chandigarh</p>	<p style="text-align: center;">MEMORIAL LECTURE</p> <p style="text-align: center;">12:40-1:00 PM</p> <p style="text-align: center;">Venue: Golden Jubilee Hall, Panjab University</p> <p style="text-align: center;">Online Link: https://puchd.webex.com/puchd/j.php?MTID=mb1f772c0aad214c86ae47d9e3f12876f</p> <p style="text-align: center;">Event number: 2642 542 9458 Event password: PUINCA1</p> <p>Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)</p>	 <p>TODAR MAL MEMORIAL LECTURE Speaker DR PRITHVIS NAG <i>Former Surveyor General of India; Former Director, NATMO; Former Vice Chancellor Kashi Vidyapeeth</i></p> <p>Chair: Prof Surya Kant, <i>Former President INCA; Former Chairperson, Department of Geography, PU Chandigarh</i></p>
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LUNCH BREAK: 1:00-2:00 PM

<p style="text-align: center;">MEMORIAL LECTURE/S</p> <p style="text-align: center;">2:00-3:30 PM</p>	 <p>PROF S.P. CHATTERJI MEMORIAL LECTURE Speaker Prof KR Dixit <i>Former President NAGI, IIG, Former Head, Department of Geography, Savtri Bai Phule University, Pune</i></p> <p>Chair: Dr Tapati Banerjee, <i>Director NATMO</i></p>	 <p>PROF SHAH MANJOOR ALAM MEMORIAL LECTURE Speaker Prof Kalpana Markandey <i>Former Head, Department of Geography, Osmania University, Hyderabad</i></p> <p>Chair: Prof. V.C. Jha, <i>Former V C, Bhagalpur University, Former Director NATMO</i></p>
<p style="text-align: center;">Venue: Golden Jubilee Hall, Panjab University</p> <p>Online Link: https://puchd.webex.com/puchd/j.php?MTID=m467b643d7da6dd3b34433ad784c378d1</p> <p style="text-align: center;">Event number: 2644 365 8796 Event password: PUINCA1</p> <p>Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)</p>		 <p>GIS INDUSTRY PRESENTATION Sh Vishal Anand Senior Vice President ESRI, INDIA</p>

TEA: 3:30-4:00 PM



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DAY 1: 27 October 2021 (Wednesday)

PLENARY SESSION-I (4:00-5:30 PM)

Venue: Golden Jubilee Hall, Panjab University, Chandigarh

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m3eac62448db477a57d55c62657190258>

Event number: 2642 404 1747

Event password: PUINCA1



Chair: Vice Admiral Adhir Arora, *Chief Hydrographer, Government of India*

Co-chair: Professor Smita Bhutani, *Panjab University, Chandigarh*



Prof Tim Trainor

PRESIDENT

International Cartographic
Association (ICA); Member U.S.
National Geospatial Advisory
Committee



Dr V Raghawanswami

***Former Deputy Director,
NRSC, ISRO, India***

*Emerging Trends in Mapping and
Open Geospatial Data
Technologies*



Dr Ashwagosh Ganju

***Former Director,
SASE, DRDO, India***

*Cartography for Early Warning and
Crisis Management*



Dr Shahnawaz

***Director, South and SE ASIA,
UNIGIS International,***

University of Salzburg, Austria
*Remote Sensing Based Mapping
& Monitoring of Atmospheric
Pollution in India*

Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohammad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)

Cultural Evening and Dinner (5:30 pm onwards)



41st INCA INTERNATIONAL CONFERENCE
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DAY 2

28 October 2021 (Thursday)





41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: A1 (Offline and Online)


9:30-11:00 AM

Venue: Golden Jubilee Hall, Panjab University, Chandigarh

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m60dd0674d80ce507ed27703c7b44915e>

Event number: 2641 158 2562 Event password: PUINCA1



<p>PLENARY LECTURE</p> <p>PROF GARRY FEHR</p> <p>University of the Fraser Valley, Canada</p>		<p>Chair: Professor MS Jaglan, Kurukshetra University, Kurukshetra Co-Chair: Professor Dhian Kaur, Panjab University, Chandigarh</p> <p>Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587) Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)</p>
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INVITED/LEAD LECTURE: Prof Bimal Kumar Kar (*Impact of Urban Growth and Green Space Dynamics on Micro Climate: A Case Study of Siliguri City West Bengal*)

	Name/s	Reg. No.	Topic
1	Ankit Sagar ^{1, 2, 3} , Cédric Vega ² , Christian Piédallu ³ , Olivier Bouriaud ² , Jean-Pierre Renaud ^{2, 4} <i>France</i>	INCA0002	High Resolution mapping of Forest resources and prediction Reliability using Multisource Inventory Approach
2	Nikhil Kumar <i>Student, Masters in Geoinformatics, Panjab University, Chandigarh</i>	INCA0007	The Need of Solid Waste Management Plan in Rural Areas of Himachal Pradesh: Conceptualizing Geospatial Approach
3	Mohd Waseem Naikoo, Mohd Rihan, M Ishtiaq & Atiqur Rahman <i>Department of Geography, Jamia Millia Islamia, New Delhi 110025, (India)</i>	INCA0010	Mapping of Post Liberalization Growth of Real Estate in Delhi-NCR using Digital Cartographic Techniques
4	Komal Priya Singh*, Kunwar Abhishek Singh** <i>*Indira Gandhi National Open University, New Delhi; **IIT Kharagpur, West Bengal</i>	INCA0024	Achieving India's Goal of Sustainable Development with a Green Grass: Bamboo

Tea Break 11:00 am-11:30 am



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: B1 (Online) 9:30-11:00 AM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m861af582a8c091fa117324fd4d3aa9>

Event number: 2641 040 4536 **Event password:** PUINCA2



<p>PLENARY LECTURE DR M.R. BHUTIYANI Former Director Defence Terrain Research Laboratory (DTRL), Delhi, India TOPIC <i>Application of Advanced Geospatial Technology: A Defence Perspective</i></p>		<p>Chair: Prof Ravindra G Jaybhaye, Savitribai Phule Pune University, Pune Co-Chair: Dr Navneet Kaur, Panjab University, Chandigarh</p> <p>Session Coordinator/s: Mr Abhishek Goyat (+91-9991112636), and Mr Rahul Kirdolia (+91-9971740000)</p>
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INVITED/LEAD LECTURE: Prof R. Jaganthan (*Trends in Ubiquitous Cartography*)

	Name/s	Reg. No.	Topic
1	Seema Mehra Parihar <i>Professor, Department of Geography, Kirori Mal College, University of Delhi</i>	INCA0087	Cartography Curriculum Needs Redesigning in Self Reliant India: Some Insights from Six Zones of India
2	Jawahar Lal Jain <i>Retd. Professor, Sagar University, SAGAR, (INDIA)</i>	INCA0031	Dichotomy Of Producer's and User's Perspectives on Cartographic Generalization
3	Sarabjit Singh, Koyel Sur, Sunil Nehra, Vipin Kumar Verma <i>Natural Resources and Environment Division Punjab Remote Sensing Centre, Ludhiana</i>	INCA0081	Evolution of Digital Cartography at Micro Level: A Case Study from Rural Punjab in India
4	Labani Sarkar* & Panchali Majumdar** <i>*SACT, Banipur Mahila Mahavidyalaya; **Associate Professor in Geography, East Calcutta Girls' College Lake Town</i>	INCA0085 INCA0083	Empowerment of women: Dream or Reality? (A case study of Bagna Village, Gaighata Block, North 24 Parganas

Tea Break 11:00 am-11:30 am



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: C1 (Online)

9:30-11:00 AM



Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m7fd4cc945053a7ac24cb9bb883ba2d06>

Event number: 2642 470 3714

Event password: PUINCA3

Chair: **Prof MS Rana, MDU Rohtak**

Co-Chair: **Dr Vishwa B.S. Chandel, Panjab University, Chandigarh**

Session Coordinator/s: **Mr Ajay Kumar (+91-8054225712), Mr Abhishek Malik (+91-97166466879), and Ms Preety (+91-8264379910)**

INVITED/LEAD LECTURE: Prof Sahab Fazal (*The Realities of Urban Land use Planning in India: A Case Study*)

	Names	Reg. No.	Topic
1	Smita Varma*, Swagata Ghosh*, Praveen Kumar Rai** *Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector 125, Noida-201313, U.P.; **Department of Geography, Faculty of Social Sciences, Khwaja Moinuddin Chishti Language University, Lucknow	INCA0092	Comparative Assessment of Heat Islands in Urban-Industrial Cities of India
2	Sujata Das* & Dr D. Surendran** *MTech (Geoinformatics) Department of Geography, University of Madras, Guindy, Chennai; **Guest Lecturer, Department of Geography, University of Madras, Chennai	INCA0021	Analysis Of land Surface Temperature with Different Indices Using Remote Sensing Techniques: A Case Study of Guwahati City, Assam
3	Kumar Rajeev*, Swagata Ghosh*, Falguni Patadia** *Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector 125, Noida-201313, U.P., India; **NASA Goddard Space Flight Center, Greenbelt, MD, USA	INCA0059	Impact Assessment of Land use Land Cover Change on Land Surface Temperature in Delhi National Capital Region, India
4	Mahesh Thakur Centre of Advanced Study in Geology, Panjab University, Chandigarh, India	INCA0080	Active Fault and Landslide Investigation in the Northwestern Himalaya, India

Tea Break 11:00 am-11:30 am



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DAY 2: 28 October 2021 (Thursday)

PANEL DISCUSSION

11:30 am – 1:00 PM

Theme: USE, MISUSE AND ABUSE OF GEOSPATIAL TECHNOLOGY: DEFENSE PERSPECTIVE

Venue: Golden Jubilee Hall, Panjab University, Chandigarh

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m889161b3a71d3e0d4fc6c3b0f2a49492>

Event number: 2643 264 6846

Event password: PUINCA1

MODERATOR

**Lt General
KJ Singh**



SPEAKERS

**Maj General
Raj Mehta**



**Maj General
Samsher Jamwal**



**Maj General
RC Padhi**



Lunch 1:00-2:00 pm



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: A2 (Online): 2:00-3:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m17f1ec1a49945f0bd69a1a5d83ac95e1>

Event number: 2644 456 5241 Event password: PUINCA1



Chair: **Prof Nina Singh, MDU Rohtak**

Co-Chair: **Prof Ravinder Kaur, Panjab University, Chandigarh**

Session Coordinator/s: **Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)**

	Name/s	Reg. No.	Topic
1	Jitendra Shukla* & Kalyan Sardar** <i>*Associate Professor, Department of Geography, Ranchi University, Ranchi</i> <i>**Research Scholar, Department of Geography, Ranchi University, Ranchi</i>	INCA0049 INCA0009	Mapping: Impact of population Growth on the Dynamics of Resources A case study of Kultali Block, South 24 Paraganas, West Bengal
2	Pushpa kumari <i>Research scholar, Magadh University Bodh Gaya</i>	INCA0034	Integrated Water Resource Management in Patna District Issues and Responses
3	Chandrayee Chakraborty* & Dr. Sukla Hazra** <i>*Senior Research Fellow, Department of Geography, East Calcutta Girls' College, West Bengal State University; **Principal, East Calcutta Girls' College, West Bengal State University</i>	INCA0036	Sustainable Agriculture in Relation to Participatory Management - A Case Study of Kankai Irrigation System, Nepal
4	Debasis Singh, Jagadish Kumar Tripathy & Sushree Sagarika Behera <i>Dept. of Earth Sciences, Sambalpur University, Jyoti Vihar, Burla, Odisha</i>	INCA0045	Mapping iron oxide ore deposits with EO-1 Hyperion Imagery in Joda region, Keonjhor district, Odisha
5	Adarsh Kumar Vidyarthi <i>Research Scholar, Patliputra University, Patna</i>	INCA0075	Pilot Project on Aquifer Mapping Bihta Community Development Block Area Patna District, Bihar.
6	Kumbhakarna Mallik <i>Assistant Professor and HOD, Department of Environmental Engineering, Eastern Academy of Science and Technology (EAST), Bhubaneswar</i>	INCA0026	Morphological Features During Anthropocene of Chilika; India
7	Anil <i>Research Scholar, Dept. of Geography, Panjab University, Chandigarh</i>	INCA0032	Cartographical Analysis of Spatio-Temporal Variation in Ground Water Level Due to Tube Well Irrigation in Haryana State
8	Mohit Arora, Shashikanta Sahoo and Brijendra Pateria <i>Punjab Remote Sensing Centre, Punjab Agricultural University Campus, Ludhiana</i>	INCA0068	Surface Water Dynamics and Water Quality over Punjab Based on Remote Sensing Approach

Tea Break 3:30-4:00 PM



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TECHNICAL SESSION: B2 (Online): 2:00-3:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=mc28a29aafd3aa18a937c0c2b8f304423>

Event number: 2643 447 8045 Event password: PUINCA2



Chair: Prof Dev Dutt Sharma, HPU, Summer Hill, Shimla

Co-Chair: Prof K.K. Brar, Panjab University, Chandigarh

Session Coordinator/s: Mr Abhishek Goyat (+91-9991112636), and Mr Rahul Kirdolia (+91-9971740000)

	Name/s	Reg. No.	Topic
1	Kamal Pandey*, Harish Chandra Karnatak*, Asharam Gairola** & Arijit Roy* <i>*Indian Institute of Remote Sensing, ISRO Dehradun; **Doon University, Dehradun</i>	INCA0004	Automation of Geospatial Workflow Using Service Oriented Architecture
2	Neelima R* & Ashish Joshi** <i>*Photogrammetry and Remote Sensing Department, Indian Institute of Remote Sensing, ISRO, Dehradun, Uttarakhand. ; **Scientist/Engineer- SE, Photogrammetry and Remote Sensing Department, Indian Institute of Remote Sensing, ISRO, Dehradun, Uttarakhand,</i>	INCA0054	Speckle Filtering of SAR imagery through non-local means filter
3	Harpinder Singh, Aarti Kochhar, Shashikant Patel, P.K. Litoria & Brijendra Pateriya <i>Punjab Remote Sensing Centre, P.A.U. Campus, Ludhiana, Punjab.</i>	INCA0028	Framework for the automatic digitization of cadastral maps using deep learning and geo-processing tools
4	Aarti Kochhar*, Utkarsh Arora**, Shashikant Patel*, Harpinder Singh*, P.K. Litoria, Brijendra Pateriya* <i>*Punjab Remote Sensing Centre, P.A.U. Campus, Ludhiana, Punjab; **Thapar Institute of Engineering & Technology, Punjab</i>	INCA0071	Spatio-Temporal Forecasting of Vegetation Indices for Punjab state using Deep Learning based LSTM algorithm
5	Priti Girohi*, Minakshi Kumar** <i>*Student Trainee, MTech, Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun **Scientist/Engineer 'SG', Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun</i>	INCA0056	Deep Learning Based Models for Ship Detection in High Resolution Satellite Imagery
6	Karabi Mukherjee*, Vivek Saxena*, Vipin Kumar** & Sneha Bagde*** <i>*Sc 'F, DGRE, **Sc 'D', DGRE, *** JRF, DGRE</i>	INCA0077	Spatial Data Infrastructure and Standards
7	B.Sukumar & Ahalya Sukumar <i>Scientists, NCESS (Retd) Thiruvananthapuram</i>	INCA0027	Mapping Topographic Wetness Index (TWI) And Land Forms In Kannur District, Kerala State

Tea Break 3:30-4:00 PM



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DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: C2 (Online): 2:00-3:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m221f3826e862ea34a4540b957be58e66>

Event number: 2641 339 6744 Event password: PUINCA3



Chair: **Professor SP Kaushik, MDU, Rohtak**

Co-Chair: **Prof Simrit Kahlon, Panjab University, Chandigarh**

Session Coordinator: **Mr Ajay Kumar (+91-8054225712), Mr Abhishek Malik (+91-97166466879), and Ms Preety (+91-8264379910)**

	Name/s	Reg. No.	Topic
1	Gulshan Verma <i>Ph.D. Scholar, Department of Geography, HPU, Shimla</i>	INCA0015	GIS-Based Landslide Hazard Zonation (LHZ) in Ashwani Khad Watershed in Lesser Himalayas of Himachal Pradesh, India
2	Paaus Saumitra Pawar* & Mahendra R Bhutiyani** <i>*Post Graduate Student, Department of Environmental Science, Savitribai Phule Pune University; ** Visiting Professor of Geology and Remote Sensing, Fergusson College (Autonomous), Symbiosis Institute of Geoinformatics (SIG), Savitribai Phule Pune University, Pune</i>	INCA0019	Assessment of spatio-temporal variation in urban flood risk zones: Case study of Pune city
3	Prasad K*., R. Sunilkumar**, B. Sukumar *** <i>*Research scholar, P.G.& Research Dept. of Geography Govt. Arts college Coimbatore; ** Assistant professor in Geography, P.G.& Research Dept. of Geography, Govt. Arts College, Coimbatore; *** Scientist (Rtd.), NCESS - Thiruvananthapuram</i>	INCA0086	Mapping Erosion Prone Area Using GIS in Kannur District, Kerala
4	Sucheta Mukherjee*& VC Jha** <i>*Assistant Professor - Deptt.ofGeography ,Sripat Singh College ,Jiaganj,Murshidabad WB; ** Professor – Deptt.of Geography VisvaBharati – SantiniketanBirbhum West Bengal</i>	INCA0090	Mapping of fluvial dynamics and geo - environmental problems in Bhagirathi riparian tract of moribund deltaic region Murshidabad district, West Bengal: A geospatial approach
5	Mrinalani Priya <i>Research scholar Department of Geography, Patna University</i>	INCA0065	Geographical Study of the Impact of Flood on Society in the Plains of Kosi
6	Anil Kumar <i>Head, Department of Geography, +2 R.K.R.V. School Modan Gachi Mokama Patna</i>	INCA0013	Geographical review of flood situation and its diagnosis in Mokama Tall
7	Beauty Das <i>Asstt. Professor, Dept. of Geography, Balurghat College, Dakshin Dinajpur</i>	INCA0040	Application Of Cartographic Technique for Flood Risk Analysis Of Atreyee River, West Bengal, India

Tea Break 3:30-4:00 PM



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: A3 (Online): 4:00-5:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m2969e7931731a53da3fe83140eef05d0>

Event number: 2640 145 8369 Event password: PUINCA1



Chair: **Prof Sachinder Singh, MDU, Rohtak**

Co-Chair: **Prof Gaurav Kalotra, Panjab University, Chandigarh**

Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)

INVITED/LEAD LECTURE:

Prof Atiqur Rahman (*Mapping post COVID world*)

	Name/s	Reg. No.	Topic
1	S. Vigneshwaran*, Yeddula Bharath Simha Reddy* and S. Praburanganathan** *Assistant Professor; **Associate Professor, School of Civil Engineering, Reva University, Bengaluru	INCA0001	Geographic Information System (GIS) Based Decision Making Tool Development for Spatio-temporal Analysis of Covid-19 Hotspots
2	Khub Ram* Dr. Seema Choudhary** *Ph.D. Research Scholar, **Assistant Professor, Department of Geography, HP University Summer Hill, Shimla	INCA0011 INCA0014	Pattern, Growth and Gaps in the Availability of Healthcare Infrastructure of Himachal Pradesh
3	Kapil Kumar Gavsker Assistant Professor, Department of Geography, Institute of Science Banaras Hindu University, Varanasi	INCA0038	Cartography and Public Health: A Historical Perspective on Mapping and Mapmaking of Urban Health Crisis in Modern World
4	Susmita Mondal* & Panchali Majumdar** *Ex-PG student, East Calcutta Girls' College **Associate Professor in Geography, East Calcutta Girls' College Lake Town	INCA0062 INCA0083	Swachha Bharat Mission--An Engine for Rural Development (A Case Study of Bilkanda-I, Bilkanda-II & Bandipur, Barrackpore block-II, North twenty-four Parganas, West Bengal, India)
5	Jyothirmayi P Department of Geography, Nirmala College for Women	INCA0050	Mapping the Accessibility of Medical Facilities of Coimbatore City Using QGIS
6	P. Umasankar*, R. Vijaya** & V. Saravanabavan*** * Research Scholar, ** Assistant Professor, UGC-HRDC and *** Assistant Professor, Department of Geography, Madurai Kamaraj University Madurai, Tamil Nadu	INCA0057	Spatial Distribution of Primary Health Centres In Karur District Using GIS (Geographic Information System)

6 PM Onwards: AGM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m077ef4b1bf49280174e38a84489c5f29>

Event number: 2643 425 7643 Event password: PUINCA1



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: B3 (Online): 4:00-5:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m6a1878f5cb71c24537896a37f007dd98>

Event number: 2643 282 1884 Event password: PUINCA2



Chair: **Prof. Ravindra G JayBhaye**, Chairperson, Dept. of Geography, SPPU Pune Co-Chair: **Dr Navneet Kaur**, Panjab University, Chandigarh
Session Coordinator/s: Mr Abhishek Goyat (+91-9991112636), and Mr Rahul Kirdolia (+91-9971740000)

INVITED/LEAD LECTURE: Dr Surinder Paul (Cartography and Sustainable Development)

	Name/s	Reg. No.	Topic
1	Brahmjot Kaur <i>Student of Masters of Geoinformatics, Panjab University, Chandigarh</i>	INCA0016	Land use Change in Peri Urban Area: Study of Urban Expansion Of Bengaluru
2	Parbhjit Kaur* and Ravinder Kaur** <i>*Research Scholar, Department of Geography, Panjab University Chandigarh; **Professor, Department of Geography, Panjab University, Chandigarh</i>	INCA0055	Mapping Population Attributes in Urban Centres: A Case of Census Towns in Uttar Pradesh, India
3	Chandana Sarkar* and Dr Bimal Kumar Kar** <i>*Research Scholar, Department of Geography, Gauhati University, Assam **Professor, Department of Geography, Gauhati University, Assam</i>	INCA0044	Assessing Urban Growth and Its Impact on Land Use /Land Cover Change: A Comparative Study of Guwahati City and Siliguri City.
4	Gareema* & Ravinder Kaur** <i>*Student, Department of Geography Panjab University, Chandigarh **Professor, Department of Geography Panjab University, Chandigarh</i>	INCA0047	Mapping Child Friendly Public Spaces In Urban Environments: A Case Of Chandigarh
5	Hritik Raj & Shiv Dutt <i>Master of Geoinformatics, Department of Geography, Panjab University, Chandigarh</i>	INCA0048	Applying Geoinformatics for Urban Change Detection on Bathinda city
6	Ahalya Sukumar & B. Sukumar <i>Scientists, NCESS (Retd), Thiruvananthapuram</i>	INCA0005	Spatio-temporal distribution of Towns around Chennai from 1901 to 2011

6 PM Onwards: AGM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m077ef4b1bf49280174e38a84489c5f29>

Event number: 2643 425 7643 Event password: PUINCA1



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 2: 28 October 2021 (Thursday)

TECHNICAL SESSION: C3 (Online): 4:00-5:30 PM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m05ab8a22afd9f1a9fd23e7343ca81be5>

Event number: 2642 214 4734 **Event password:** PUINCA3



Chair: Prof P.S. Tiwari, Chennai

Co-Chair: Prof Ravinder Kaur, Panjab University, Chandigarh

Session Coordinator: Mr Ajay Kumar (+91-8054225712), Mr Abhishek Malik (+91-97166466879), and Ms Preety (+91-8264379910)

INVITED/LEAD LECTURE: Prof Nand Kumar Sawant (Coastal Tourism, Development and Sustainability: Cartographic)

	Name/s	Reg. No.	Topic
1	Sumit Kumar, Kirti Kumar Mahanta, Reenu Sharma and Brijendra Pateriya <i>Punjab Remote Sensing Centre, PAU Campus, Ludhiana-141004</i>	INCA0073	Cadastral based Land Use change analysis for Balachaur Tehsil using Remote Sensing techniques
2	Vinay Kumar Singh Yadav <i>Research Scholar, Department of Geography, Jay Prakash Vishwavidyalaya, Chhapra</i>	INCA0078	बदलते परिवेश में ग्रामीण अधिवासों का एक भौगोलिक अध्ययन
3	Raghvendra Singh*, Sabyasachi Chattopadhyay*, Sudhakar Shukla** <i>*Amity Institute of Geo Informatics and Remote Sensing, (AIGIRS) Amity University, Noida, **Scientist - SE (SWRD) & Head, School of Geo-informatics, Remote Sensing Applications Centre, Uttar Pradesh, Sector - G, Jankipuram, Kursi Road, Lucknow</i>	INCA0088	Role of Landscape Change Mapping in Wetlands: A Case Study of Delhi-NCR Region
4	Reenu Sharma, Kusum, Sumit and Brijendra Pateriya <i>Scientist SD, Punjab Remote Sensing Centre</i>	INCA0094	Geospatial Application for Village Level Cadastral Mapping Malakapur Village, Ludhiana District, Punjab
5	Gopinath Patra*&Sucheta Mukherjee**VC Jha *** <i>*Research Scholar: Deptt. of Geography, VisvaBharati, Santiniketan, WB ** Assistant Professor, Deptt. of Geography Sripat Singh College (Affiliated to Kalyani University), Jiaganj Murshidabad - West Bengal, ***Professor: Deptt. of Geography, VisvaBharati, Santiniketan, WB</i>	INCA0151	Landcover change detection using geospatial techniques – A case study of Karnaprayag CD block, Uttarakhand –India
6	Ajay Chanjta* and D.D Sharma** <i>*Research Scholar and **Professor, Department of Geography, Himachal Pradesh University Shimla, 171005 India.</i>	INCA0017	Mapping of Urban Amenities and Land Use Land Cover Change of Rohru Municipal Committee in Himachal Pradesh

6 PM Onwards: AGM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m077ef4b1bf49280174e38a84489c5f29>

Event number: 2643 425 7643 **Event password:** PUINCA1



41st INCA INTERNATIONAL CONFERENCE
October 27-29, 2021



DAY 3

29 October 2021 (Friday)





41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 3: 29 October 2021 (Friday)

TECHNICAL SESSION: A4 (Offline and Online)

9:30-11:00 AM

Venue: Golden Jubilee Hall, Panjab University, Chandigarh

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m270b4c8f9f164a07b72566d93302f1bd>

Event number: 2642 201 8214

Event password: PUINCA1



Chair: Prof. Shahab Fazal, Aligarh Muslim University

Co-Chair: Dr Vishwa B.S. Chandel, Panjab University, Chandigarh

Session Coordinator: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)

	Name/s	Reg. No.	Topic
1	Shivani Pathak <i>Product Engineer-II, ESRI R&D Center, New Delhi</i>	INCA0003	Flood Inundation Mapping using SAR and Deep Learning
2	Shahfahad, Mohd Rihan, Swapan Talukdar & Atiqur Rahman <i>Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, India</i>	INCA0006	Coupling Geospatial Techniques with Cellular Automata and Artificial Neural Network for the Past to Future Urban Expansion Mapping
3	Ms. Preeti* & Pawan Kumar** <i>*M.Sc. Student; **Assistant Professor, Department of Geography, Faculty of Physical Sciences, Chaudhary Bansi Lal University Bhiwani, Haryana</i>	INCA0018	A Geospatial Mapping of the Waterlogged Areas of the Central Haryana
4	Pawan Kumar	INCA0022	3D mapping Himalayan Cryosphere: Opportunities and Challenges
5	Abhishek Goyat <i>Department of Geography, Panjab University, Chandigarh-160014</i>	INCA0030	Identification and Changed Detection of Polyhouses in Haryana using Geospatial Technology
6	Dhanjit Deka* & Hemanta Kumar Medhi** <i>*Assistant Professor, Department of Geography, Gauhati University, Guwahati ** Former PG Student, Department of Geography, B Borooah College, Guwahati</i>	INCA0046	Assessment of morphometric characteristics and LULC pattern of the Leko watershed, North East India
7	Vivek <i>Research Scholar, Department of Geography, Panjab University, Chandigarh</i>	INCA0063	GLCM Textural Analysis of High-Resolution Satellite Image: A Case of Allain Watershed of Upper Kullu Valley

Tea Break: 11:00- 11:30 AM



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 3: 29 October 2021 (Friday)

TECHNICAL SESSION: B4 (Online)

9:30-11:00 AM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=me3ecfe852d70e724eb6ce361c5148cbf>

Event number: 2644 801 8166

Event password: PUINCA2



Chair: Prof. Rajeev Patnaik, Chairperson, Department of Geology, Panjab University, Chandigarh

Co-Chair: Dr Navneet Kaur, Panjab University, Chandigarh

Session Coordinator: Mr Abhishek Goyal (+91-999112636), and Mr Rahul Kirdolia (+91-9971740000)

	Name/s	Reg. No.	Topic
1	Shashikant Patel, Baljit Kaur, Sonam Verma, Pradeep Kumar Litoria, and Brijendra Pateriya, <i>Punjab Remote Sensing Centre</i>	INCA0067	Geo-spatial Approach for Mapping of Novel Corona Virus in Punjab state, India.
2	Nikita Jeetendra Supekar*, Dr. Mahendra Bhutiyani** *Student, <i>Savitribai Phule Pune University, Pune Department of Environmental Science</i> **Visiting Professor of Geology and Remote Sensing, <i>Fergusson College (Autonomous), Symbiosis Institute of Geoinformatics (SIG), Savitribai Phule Pune University, Pune</i>	INCA0029	COVID-19 Mapping Using Remote Sensing and GIS Techniques
3	Sahzad Alam <i>Research scholar Dept. of Geography, Magadh University, Bodh Gaya</i>	INCA0025	Geographical study status of Industrialization and Urbanization in Aurangabad City of Bihar
4	Amit Kumar *Assistant Professor of Geography, <i>Government College Uklana (Hisar), Haryana</i>	INCA0008	Geo-Spatial Analysis of Reverse Migrations in India during COVID-19
5	Manushi Bhatt*, Minakshi Kumar** *M. Tech 2 nd Year, **Scientist/ Engineer 'SG', <i>IIRS, Dehradun</i>	INCA0052	Evaluating the Performance of Image Fusion Techniques for Very High Resolution Hyperspectral and Multispectral Dataset
6	Vijay Deep Singh, Dr. R B Singh, Mohammad Ashpha	INCA0096	Impact of Urban Sprawl on Land Use and Land Cover in Dehradun – A Geospatial Approach

Tea Break: 11:00- 11:30 AM



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 3: 29 October 2021 (Friday)

TECHNICAL SESSION: C4 (Online)

9:30-11:00 AM

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=mc10ad6d1ff74ad5121f4b3d7b2408e6f>

Event number: 2641 929 4370

Event password: PUINCA3



Chair: **Prof. Lokesh Srivastava**, *Director, HRDC, Jabalpur, MP*

Co-Chair: **Prof. Gaurav Kalotra**, *Panjab University, Chandigarh*

Session Coordinator/s: **Mr Ajay Kumar** (+91-8054225712), **Mr Abhishek Malik** (+91-97166466879), and **Ms Preety** (+91-8264379910)

	Name/s	Reg. No.	Topic
1	Rahul*, Ravinder Kaur** <i>*Research scholar, Department of Geography, Punjab University Chandigarh, 160014</i> <i>**Professor, Department of Geography, Punjab University Chandigarh, 160014</i>	INCA0058	Mapping the Spatio-Temporal Dynamics of COVID 19 Outbreak in Chandigarh (U.T.), Using Geospatial Techniques
2	Abhishek Malik <i>Research Scholar, Panjab University, Chandigarh</i>	INCA0095	History and Evolution of Cartography: From Hand-Drawn Murals to Computerised Mapping
3	Puran Chand	INCA0093	मानव जीवन में मानचित्र का विशेष महत्व: एक भौगोलिक विश्लेषण
4	Dr Ashwani Kumar* and Dr Seema** <i>Assistant Professor, Department of Geography, *C.H.L. Govt. College, Chhara, Jhajjar (Haryana); **Assistant Professor, Department of Geography, Government College, Chhilro, Mahendergarh (Haryana)</i>	INCA0043 INCA0150	History and Development of Cartography
5	Gurvinder Singh & Dr Ajay Roy <i>Lovely Professional University, Jalandhar (PB.), India</i>	INCA0039	Spatial And Temporal Analysis of Surface Temperature: A Study of Bathinda City, Punjab
6	Deepika*, Koyel Sur**, Prof.Ravinder Kaur*, Dr.V.Verma**, Gaurav Kalotra*& Brijendra Pateriya**; <i>* Panjab University, Chandigarh; **Punjab Remote Sensing Centre, Ludhiana</i>	INCA0079	Fusion of Earth Observation Dataset for distinguishing Impervious and Pervious Structures in Urban Environment

Tea Break: 11:00- 11:30 AM



41st INCA INTERNATIONAL CONFERENCE (October 27-29, 2021)

DAY 3: 29 October 2021 (Friday)



POSTER PRESENTATIONS (Offline and Online)

11:30 am-12:30 pm

Venue: Poster Exhibition Hall

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=maba248d45806fa317312cf14a9b4750b>

Event number: 2642 825 3449 Event password: PUINCA1

Session Coordinator/s: Mr Atul Dutta, Mr Vivek (+91-8837778587), Mr Mohmmad Irfan (+91-8427304035), and Mr Rohit (+91-9416416881)

	Name	Reg. No.	Topic	Mode
1	Kunwar Abhishek Singh	INCAP001	Interactive Mapping Using Google My Map to Show the Journey of INCA (1979 – 2021)	Offline
2	Komal Priya Singh	INCAP002	Interactive Mapping Skills Using Google My Map to Show the Journey of INCA (1979 – 2021)	Offline
3	Shivani Pathak	INCAP003	Land Surface Estimation Using Deep Learning and 2. Snow Avalanche Vulnerability Mapping for Siachen	Offline
4	Aman Deep Lamba	INCAP007	Mapping of Waterlogging in the Central Haryana	Offline
5	Sunil Kumar	INCAP006	GIS Based Methodology for Updation of Jurisdiction Changes and Creation of National Level Geo-Database	Offline
6	Ankit Sagar	INCAP008	Prediction of Land Surface Temperature using image translation PIX2PIX Model	Offline
7	Brahmjot Kaur	INCAP009	Water Depletion in Bengaluru	Online
8	Gareema	INCAP004	Mapping Child Friendly Public Spaces In Urban Environments: A Case Of Chandigarh	Online
9	Ratna Khoso	INCAP005	An Assessment on Tropical Cyclone ‘Yaas’ Along the Coast of West Bengal India Using Open Geospatial Data and Advance Technologies	Online



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October 27-29, 2021



DAY 3 (29 October 2021, Friday)

VALEDICTORY FUNCTION (12:30 noon – 1:45 PM)

Online Link: <https://puchd.webex.com/puchd/j.php?MTID=m887f2088f5250840d78281ad69d70c1e>

Event number: 2643 836 7503

Event password: PUINCA1

<ul style="list-style-type: none"> ❖ <i>Floral Welcome (12:30-12:35 pm)</i> ❖ <i>Report of the conference (12:35-12:45 pm)</i> ❖ <i>Welcome of incoming President INCA (12:45-12:50 pm)</i> ❖ <i>Felicitations of Best Paper/Poster awards by INCA Secretary (12:50-1:00 pm)</i> 	<p style="text-align: center;">VALEDICTORY ADDRESS (1:00-1:15 pm) Dr. Brijendra Pateriya <i>Director</i> <i>Punjab Remote Sensing Centre (PRSC)</i> <i>Government of Punjab</i></p>	
<p><i>Address by Dignitaries (1:00-1:45 pm)</i></p>		
<p style="text-align: center;">GUEST OF HONOUR ADDRESS (1:15-1:25 pm) Dr. Pramod K Satyawali <i>Director</i> <i>Defence Geoinformatics Research</i> <i>Establishment (DGRE) Government of India</i></p>	<p style="text-align: center;">CHIEF GUEST ADDRESS (1:25-1:35 pm) Professor VR Sinha, <i>Dean of University Instruction, Panjab</i> <i>University, Chandigarh</i></p>	
<ul style="list-style-type: none"> ❖ <i>Vote of Thanks: Dr Vishwa B.S. Chandel (1:35-1:40 pm)</i> ❖ <i>National Anthem (1:40-1:45 pm)</i> 		

Lunch 1:45 pm onwards

Organised by
Indian National Cartographic Association (INCA)

Hosted by
Department of Geography Panjab University, Chandigarh