



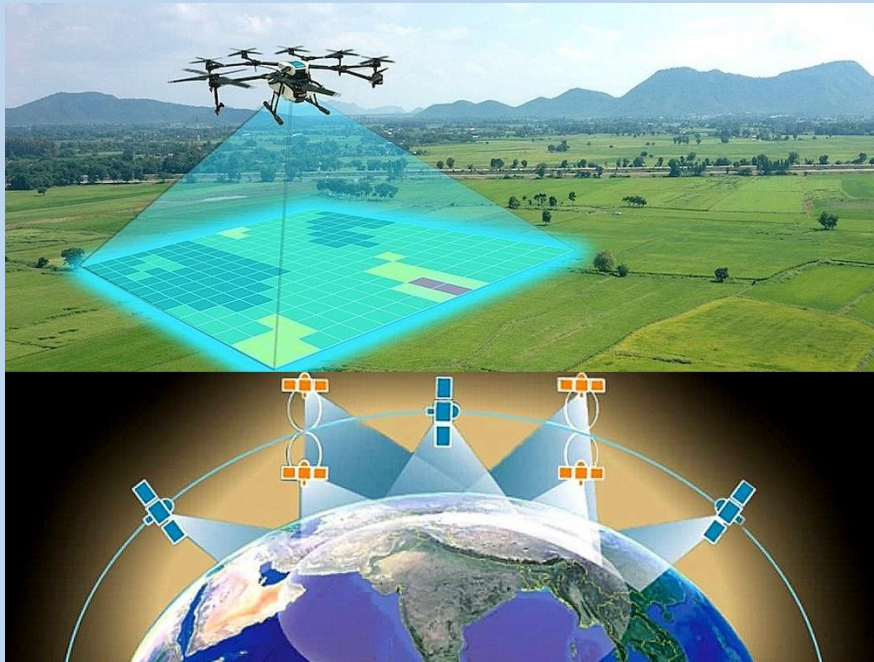
Second Circular Final

41ST INCA INTERNATIONAL CONFERENCE

October 27-29, 2021

FOCAL THEME

CARTOGRAPHY FOR SELF-RELIANT INDIA



Organised by

INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION

<https://www.incaindia.org>

Hosted by

DEPARTMENT OF GEOGRAPHY

PANJAB UNIVERSITY, CHANDIGARH

<https://geography.puchd.ac.in/show-noticeboard.php?nbid=1>

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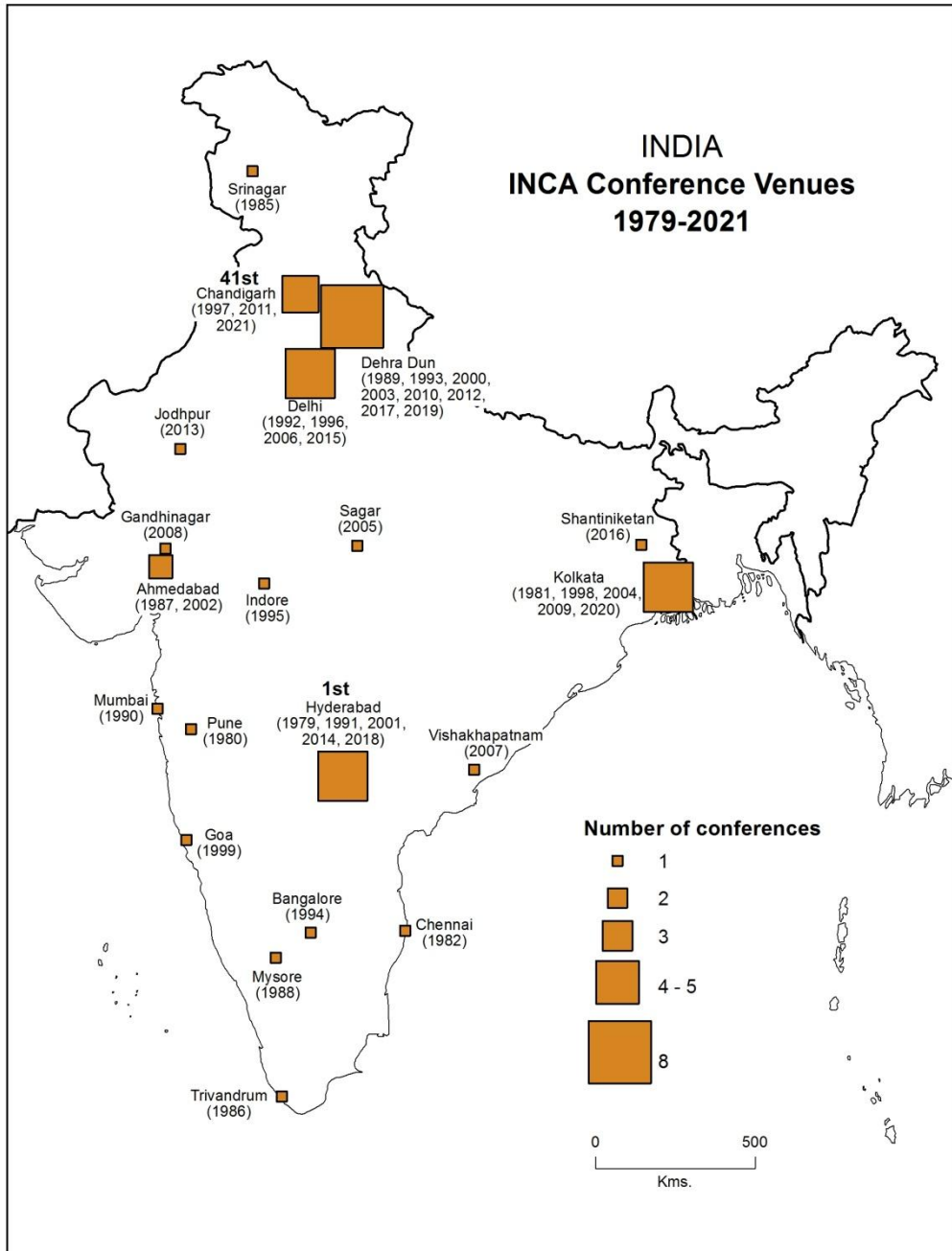
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Panjab University
Chandigarh

President, INCA

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Department of Geography
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THE JOURNEY OF INCA



INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION (INCA)

Founded on 7th August 1979 at Hyderabad, the Indian National Cartographic Association (INCA) has evolved into one of the world's most prominent professional associations of its kind. From a modest beginning with 79 members on its role initially, today it is a professional body with more than 3000 Life Members and 84 Institutional Life Members. It has branches functioning at Bengaluru, Mumbai, Kolkata, Chandigarh, Dehra Dun, Delhi, Gujarat, Hyderabad, Indore, Jodhpur, Kerala, Odisha and Tamil Nadu.

The major objectives of the association are:

- ▶ To foster cartographic research in the country.
- ▶ To co-operate with professional organisations of cognate disciplines and to promote academic interaction within an inter-disciplinary frame.
- ▶ To co-operate with international organisations with similar objectives.
- ▶ To improve the teaching of cartography at all levels.
- ▶ To foster co-operation between Government and Quasi-Government organisations, Research Institutions for the advancement of cartography.
- ▶ To hold a National Cartographic Conference, ordinarily, once in a year

INCA as an association provides an interface between academia, particularly geographers, geologists, earth scientists, technologists etc., and government institutions and geo-spatial industries involved in manufacturing of mapping and surveying tools and software, mapping and geo-spatial analysis. The symbiotic relationships among these bodies strengthen each other.

THE HOST

Panjab University is a central and State Governments Funded University located in Chandigarh. It was established in 1882 as University of Punjab at Lahore (now in Pakistan).

The most recent milestones by the University are as follow:

- ▶ 2nd Rank in the Atal Ranking of Institutions on Innovation Achievements (ARIIA) amongst Indian Universities declared by Ministry of Education, Govt. of India in 2020
- ▶ Ranked 4th amongst Indian institutes/ universities by International Ranking Agency, the Times Higher Education (WUR) in 2019-2020
- ▶ Won the prestigious Maulana Abul Kalam Azad (MAKA) Trophy for best all-round performance in sports among Indian Universities for continuous two years in succession 2018-19 and 2019-2020

The University campus is spread over 550 acres (2.2 km²) of an area in sectors 14 and 25 of the city of Chandigarh. University has 78 teaching, and research departments and 15 Centres/Chairs for teaching and research. University has 188 affiliated colleges spread over Punjab and having one rural Regional Centre at Kauni, and 3 Regional Centres at Muktsar, Ludhiana and Hoshiarpur. In addition, University has 6 Constituent Colleges located at Sikhwala (Sri Muktsar Sahib), Balachaur (SBS Nagar), Nihalsingh Wala (Moga), Dharamkot (Moga), Mokham Khan Wala (Ferozepur) and Guru Harsahai (Ferozepur).

DEPARTMENT OF GEOGRAPHY

The Department of Geography, one of the pioneer institutions, established in 1960 at Panjab University, Chandigarh is an important centre of teaching, learning and research in Geography. It enjoys a rich historical academic legacy. As per The Times Higher Education Asia Rankings 2018, the Department of Geography, Panjab University, Chandigarh, has been ranked No. 1 in India. It remains a top-ranking department in the country. Within the University, we stand at number one among social sciences departments in terms of total publications. It is a matter of pride for us. We have always responded to changing times and updated syllabus and teaching tools to ensure our relevance.

The University Grants Commission (UGC), New Delhi, recognising its quality work, covered the Department under Special Assistance Programme (SAP) in 1992. It remained under the Department of Special Assistance (DSA) from 1992 to 2009. It was elevated as the Centre of Advanced Study (CAS), UGC in 2009. The second phase of CAS, UGC (2015-2020) was completed in March 2020.

The Thrust Areas identified for research and teaching in the Department are Population Geography, Settlement Geography, Agricultural Geography, Geography of Ecosystem, Remote Sensing & GIS, Disaster Management, Regional Development and Water Resources. Over the years, the faculty has completed many research projects and authored many books and research papers. This Department is one of the few university departments in India with multiple specialisation options. As a result, the faculty has vast research experience and expertise in several applied fields of geography. It runs three Post-Graduate course: M.A. Geography, Masters in Disaster Management and Masters in Geoinformatics. In addition it offers PhD program. The Department provides a stimulating research/learning environment and the requisite research tools for training and research in every major branch of the subject. Besides quality teaching, the faculty is engaged in numerous researches both individually and in collaboration with colleagues from interdisciplinary fields at various other institutes in India and overseas.

Department of Geography has very successfully conducted INCA Conference in 1997 and 2011. Our department is going to have this honour for the third time.

FOCAL THEME

Cartography for Self-reliant India as a focal theme of the conference derives direction and impetus from the government's vision of *Atamnirbhar Bharat*. The Government of India in recent past has taken many initiatives in promoting Geo-spatial technology. Bold government policies such as map policy, the remote sensing data policy, drone policy and unlocking space are the most encouraging decisions taken in the recent past. Based on the indigenous potentials, the vision aimed to build five pillars- incremental gains, modern infrastructure, a technology-driven system, vibrant demography, and a strong demand and supply chain of the country's economy. In every economic endeavour, including agriculture, finance, construction, mining, and local enterprise, India's farmers, small businesses, and corporations stand to gain tremendously from the application of innovative technologies based on modern geospatial data technologies and mapping services, according to the Indian Department of Science and Technology. As a result, this conference is designed to adopt a persuasive scholarly approach to the country's self-sufficiency goal. Given the importance of cartography in the geospatial world, the 41st INCA International Conference will be an excellent opportunity to provide decisive results.

SUB-THEMES

- ▶ History of Cartography
- ▶ Theoretical Cartography
- ▶ Marine Cartography
- ▶ Mountain Cartography
- ▶ Popular Cartography
- ▶ Cartography and Public Health
- ▶ Cartography and Sustainable Development
- ▶ Cartography and Children
- ▶ Cartography for Early Warning and Crisis Management
- ▶ Toponymy in Cartography
- ▶ Education and Continuous Learning in Cartography
- ▶ Cartography, Privacy, and Ethics
- ▶ Unlocked Space: Cartographic Challenges Ahead
- ▶ Emerging Trends in Mapping
- ▶ Artificial Intelligence in Mapping
- ▶ Location-Based Services and Ubiquitous Mapping
- ▶ Sensor-Driven Mapping
- ▶ Participatory Mapping
- ▶ Military Mapping
- ▶ Mapping Urban Environments
- ▶ Mapping Post-COVID World
- ▶ Maps in the service of Humanity
- ▶ Maps and Accessibility
- ▶ User-Friendly Maps: Emerging Trends
- ▶ Digital Photogrammetry
- ▶ Open Geospatial Data and Technologies
- ▶ Spatial Data Infrastructure and Standards
- ▶ GNSS Applications
- ▶ Digital Image Processing
- ▶ Open Source Software Development

MEMORIAL/ SPECIAL LECTURES EVENTS

▶ **Todarmal Memorial Lecture**

To commemorate Raja Todarmal's contribution to the cause of land revenue and land survey for cadastral mapping, Indian National Cartographic Association organizes Todarmal Memorial Lecture in every INCA Congress/Conference. The first lecture in the series was delivered in the year 1994 and is being continued every year.

▶ **S P Chatterjee Memorial Lecture**

Prof. S. P. Chatterjee, the Founder Director of NATMO, was the doyen of cartography in India. To commemorate his systematic and scientific contribution in Geography and Cartography, S.P. Chatterjee Memorial Lecture has been introduced from XXIV INCA International Conference and is organized every year. This year it will be the 17th such memorial lecture in the series.

▶ **Special Lecture in honour of Prof Shah Manzoor Alam**

In recognition of contribution of Prof Shah Manzoor Alam towards INCA, who passed away on June 22 2021, a special lecture is being organised in 41st INCA international conference.

AWARDS

Following two major awards will be provided

- i. Best Paper Presentation Award
- ii. Best Poster Presentation Award

SPECIAL SESSIONS FOR INSTITUTES, INDUSTRY AND TECHNOLOGY

PARTNERS

Organisers will provide suitable platform to institutes, industry and technological partners sponsoring our events to display or present their software, instruments, publications, etc. A selected sponsored may be provided space to put up their stalls (subject to permission and COVID situation).

NATIONAL EXECUTIVE BODY (INCA)

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