BACKGROUND

Artificial Intelligence (AI) has brought significant advancements to spatial data analysis, revolutionizing the way we study and understand the Earth's surface. With the rise of remote sensing technology, AI algorithms have become essential in processing the vast amount of data generated from satellite and airborne sensors. The ability of AI to analyze and interpret this data has opened new possibilities for understanding natural and human-made systems on a global scale. From predicting weather patterns to monitoring deforestation, AI is transforming how we study and respond to environmental challenges.

It has a range of application in:

- ✓ Forest, Agriculture and Vegetational studies
- ✓ Environmental studies
- ✓ Natural resource management
- ✓ Disaster management and Urban planning

WORKSHOP FOCUS

The workshop focuses on the potential of Artificial Intelligence (AI) in spatial data analysis, particularly in processing large amounts of data from remote sensing technology. It highlights AI's applications in different resource monitoring & assessment and urban planning. The workshop focuses on simplifying the understanding of AI for participants from different Science and Engineering fields.

For any enquiry or further information please contact:

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National Workshop on

ARTIFICIAL INTELLIGENCE IN SPATIAL DATA ANALYSIS

(From Scratch to Results)

31st March, 2023

Organized by
Indian Society of Geomatics
(Vadodara Chapter)

in association with
Department of Botany
(The M.S. University of Baroda),

Indian Science Congress Association
(Baroda Chapter) &

Indian Women Scientists' Association
(Baroda Branch)

VENUE
Department of Botany,
Faculty of Science,
The Maharaja Sayajirao University of Baroda,
Vadodara – 390002

WORKSHOP OUTLINE

The *Artificial Intelligence in Spatial Data Analysis* covers:

➢ What is Artificial Intelligence?
➢ Difference between : Machine Learning (ML), Deep Learning (DL) and Artificial Intelligence (AI)
➢ Learning rules and types of learning
➢ Implementation of learning rules using Octave software
➢ Application of Artificial Neural Network for different Case studies

ABOUT THE ORGANISERS

Department of Botany is a front ranking division under the umbrella of Faculty of Science of The Maharaja Sayajirao University of Baroda, is actively engaged in teaching and research in both classical and cutting edge technology on various aspects of Plant Sciences. The department has contributed immensely in the conservation and sustainable utilization of the natural resources using advanced technology of RS-GIS. The department has organised many seminars, workshops and trainings for RS-GIS.

Indian Society of Geomatics (ISG) was established in 1993. The branch of ISG Vadodara Chapter was initiated in 2007. It is a premier society of professionals and academicians promoting and popularizing Geomatics in India. ISG regularly brings out a quarterly newsletter and publishes "Journal of Geomatics".

Indian Science Congress Association (ISCA) is the first science congress of India established in 1914. One of the major objectives of the ISCA is to inculcate the scientific temper among the people and to encourage young scientists to grow up steadily. Baroda Chapter is actively engaged in fulfilling this aim of ISCA by organising various scientific activities.

Indian Women Scientist Association (IWSA), Baroda Branch had been initiated in the year 1984 and is actively engaged in organizing programmes on women and science.

WORKSHOP FEES

Course fee – Rs. 250/-
The Fee include lunch during session. The payment can be made through Cash, Electronic transfer (QR code is given below), DD or Cheque. DD/Cheque should be drawn in favor of **Chairperson, Indian Society of Geomatics (VC).**

Details for Electronic transfer are as below:
  Account Name: **Indian Society of Geomatics**
  Account No.: **30189068039**
  IFS code: **SBIN0003321**
  Bank Name: **State Bank of India (Alkapuri-Baroda)**

IMPORTANT DATES

Interested persons can register by sending duly filled registration form by the link below before **29th March, 2023. (Only 25 Seats)**
  https://forms.gle/ircGhjqrWcpeBo2r5

ORGANISING COMITTEE

Patron
Prof. V. K. Srivastava
Hon. Vice Chancellor,
The MSU Baroda

Convenor
Prof. Haribhai Kataria
Dean, Faculty of Science

Co-Convenor
Prof. N.S.R. Krishnayya
Head, Department of Botany

Co-Ordinators
Prof. G. Sandhya Kiran
Dr. T.M.V. Suryanarayana

Co-Coordinators
Dr. Usha Pandya
Mrs. Hemalata Pavagadhi

Organizing Secretaries
Dr. Alpana V. Revdandekar
Dr. Ramandeep Kaur Malhi

Members	Members
Prof. Ajai	Dr. Yogini Pathak
Prof. D. L. Shah	Dr. Shiv Mohan
Prof. K. C. Tiwari	Dr. C. S. Buch
Prof. P. C. Mankodi	Shri G. D. Karhadkar
Prof. Vinay M. Raole	Dr. Mangala Shah
Prof. Bindoo Bhatt	Dr. C. H. Nagesh
Prof. Aruna Joshi	Shri Kiran B. Garge