

Report on
Geo Artificial Intelligence – A Paradigm shift in
Health Care Applications

06- 16-December-2021

Organized by



SCHOOL OF COMPUTING –DEPT. OF COMPUTER SCIENCE AND ENGINEERING

In Association with

CENTRE FOR REMOTE SENSING & GEOINFORMATICS (CRSG)

&

INDIAN SOCIETY OF REMOTE SENSING –CHENNAI CHAPTER

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI, TAMIL NADU

Prepared by

Dr.K.Nagamani

**Centre for Remote Sensing and
Geoinformatics**

December 2021

**Geo Artificial Intelligence – A Paradigm shift in Health Care
Applications**

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Indian Society of Remote Sensing –Chennai Chapter

Sathyabama Institute of Science and Technology, Chennai

Date: 01st Oct. 2020 to 31st Oct. 2020

Two weeks Program on “Hands Geo Artificial Intelligence – A Paradigm shift in Health Care Applications” was organized and conducted by School of Computing –Dept. of Computer Science And Engineering In Association with Centre for Remote Sensing & Geoinformatics (CRSG) & Indian Society of Remote Sensing –Chennai Chapter of Sathyabama Institute of Science and Technology, Chennai from 06 to 16-December-2021 through online mode.

The program aimed to mould together of artificial intelligence (AI) and the geographic/geographic information systems (GIS) dimension creates GeoAI. There is an emerging role for GeoAI in health and healthcare, as location is an integral part of both population and individual health. This program provides an overview of GeoAI technologies (methods, tools and software), and their current and potential applications in several disciplines within public health, precision medicine, and Internet of Things-powered smart healthy cities. The potential challenges currently facing GeoAI research and applications in health and healthcare are also discussed in this program.



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

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*School of Computing,
Department of Computer Science and Engineering
In Association with
Center for Remote Sensing & Geoinformatics
and*

*Indian Society of Remote Sensing (ISRS) - (Chennai-Chapter)
organizes*

Ten Days Certification Program

on

Geo Artificial Intelligence - A Paradigm Shift in Health Care Applications

6th Dec '21 to 16th Dec '21 : Time 10 am to 11 am

KEY SPEAKERS



Dr. Vasna Joshua
Scientist C
Epidemiology and Biostatistics, National
Institute of Epidemiology, ICMR, Chennai,
Title : GIS in Healthcare



Dr. Pamela
Associate Professor
Biomedical Engineering, Karunya University
Title : 3D Printing In Healthcare and Its Scope



Mr. Nithin T.H.
PhD Scholar (Senior Research Fellow/DST)
Cognitive Neurology Lab, Department of Neurology,
NIMHANS, Bangalore.
Title : Integrating Technology And Neuroscience
Path Towards Artificial Intelligence



Dr. Nandhitha N.M.
Dean SoSE, SIST
Title : Deep learning for medical image
analysis in telemedicine



Dr. Jerrin Joseph
Scientist D
Centre for Drug Discovery IRC, SIST
Title : Role of Natural product Drug Discovery
for infectious diseases



Dr. Grace Kanmani
Associate Professor, EEE, SIST
Title : Geo AI Applications In Health Care



Dr. Pravda
Professor & Head
Department of Oral Medicine & Radiology
Sathyabama Dental College & Hospital,
Title : Artificial Intelligence in
Dentomaxillofacial Imaging



Dr. A. Sivasangari
Associate Professor,
Dept. of Information Technology, SIST
Title : AI Applications in Healthcare



Dr. S. Revathy
Associate Professor,
Dept. of Information Technology, SIST
Title : Demo on AI in healthcare
application using R programming



Dr. G. Geetha
Associate Professor
Dept. of Geography, Queen Mary's College, Chennai,
Title : An application of GIS on physical health problems
of construction workers - A case study of Chennai city

Chief Patrons

Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arul Selvan, Vice president
Ms. Maria Bernadette Tamilarasi, Vice president

Patrons

Dr. T. Sasipraba, Vice Chancellor
Dr. B. Sheela Rani, Director-Research

Convenors

Dr. T. Sasikala,
Dean, School of Computing
Dr. L. Lakshmanan, Head-CSE
Dr. S. Vigneshwari, Head-CSE

Certificate : E-Certificate will be issued to all Registered Participants.

COORDINATORS

Dr. G. Meeragandhi, Professor/CSE, SIST
Dr. K. Nagamani, Scientist, Centre for Remote Sensing, SIST
Ms. Roobini, Assistant Professor/CSE, SIST
Dr. N. Sridevi, Assistant Professor/CSE, SIST
Dr. Cruz Antony, Assistant Professor/CSE, SIST
Ms. S. R. Srividhya, Assistant Professor/CSE, SIST



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Aired On

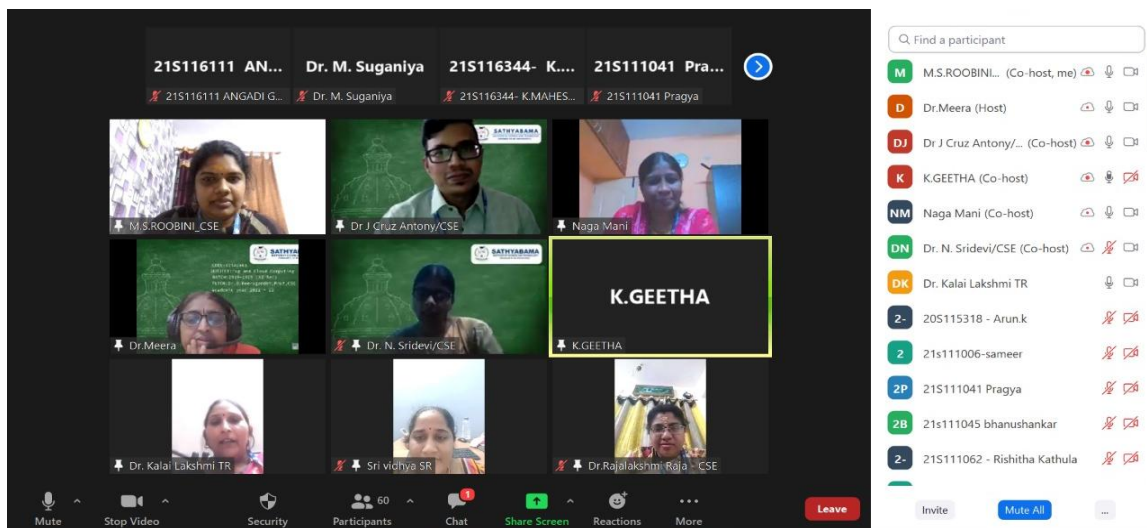


Brochure for Geo Artificial Intelligence – A Paradigm shift in Health Care Applications

BROCHURE:

Geospatial data refers to data containing a geographic component that identifies locations (e.g., coordinates, addresses, and postcodes) or indicates geographically referenced features and conditions, such as the population of a district, seasonal weather of a region, number of vehicles passing a highway intersection, and geo-tagged social media data . National and local governments were historically the main provider of geospatial data, but it is becoming common for geospatial data to be acquired and generated by commercial enterprises, academic researchers, and non-profit organizations. More recently, IoT sensors and devices deployed in modern cities represent novel and alternative sources of generating geo-tagged big data. It is therefore meaningful and imperative to apply robust GeoAI technologies to process, analyse, and make sense of such increasing amounts of spatial big data in real time.

Training as a part of capacity building is an integral component of advanced technologies. Developing Trainers in the field of GIS and AI is the need of the hour so as to percolate various health management components up to the grass root levels and is crucial to build capacity of a nation. As part of the basic course, the content would revolve around understanding the basic concepts



Online program on Geo Artificial Intelligence – A Paradigm shift in Health Care Applications