

## Confirmed Speakers



**Prof. Shashi Shekhar**  
McKnight Distinguished University Professor  
University of Minnesota



**Lt Gen (Dr) Anil Kapoor (Retired)**  
Professor of Practice  
Department of Electrical Engineering  
Indian Institute of Technology Tirupati



**Dr. Anand Padmanabhan**  
Research Associate Professor  
Department of Geography and Geographic  
Information Sciences  
University of Illinois at Urbana-Champaign



**Dr. A. M. Ramiya**  
Assistant Professor  
(Remote Sensing & Image Processing)  
Department of Earth & Space Sciences  
Indian Institute of Space Science and Technology



**Dr. Uttam Kumar**  
Assistant Professor &  
Infosys Career Development Chair Professor,  
Spatial Computing Laboratory, Center for  
Data Sciences, Indian Institute of Information Technology  
Bangalore



**Dr. Vaibhav Kumar Upadhyay**  
Assistant Professor  
Data Science and Engineering  
Indian Institute of Science, Education and  
Research Bhopal



**Dr. Bharat Lohani**  
Professor  
Department of Civil Engineering  
Indian Institute of Technology Kanpur



**Dr. Ishapathik Das**  
Assistant Professor  
Department of Mathematics and Statistics  
Indian Institute of Technology Tirupati

## Important dates

- Last date for course registration: June 24, 2022
- Notification of selected participants: June 25, 2022
- Workshop Dates: 27-28 June, 2022, from 08.00 hrs to 19.30 hrs IST

## Target Audience

- Ph.D. and M.S. Scholars
- M.Tech./M.Sc./B.Tech. (3rd Year) Students
- Faculty members from academic institutions.
- Engineers and researchers from Industry organizations including R&D laboratories



IIT Tirupati  
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I-Hub Foundation

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IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF)  
organizes

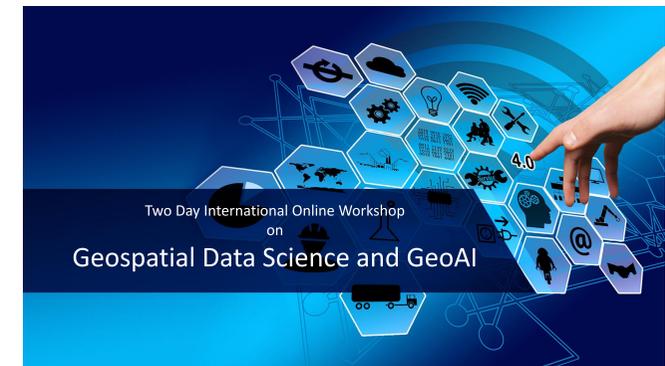
Two Day International Online Workshop  
on  
**Geospatial Data Science and GeoAI**  
**June 27 & 28, 2022**

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GeoAI can bring significant benefits to drive the next generation of service innovation in many applications, including autonomous transportation, sustainable Smart City planning/implementation, augmented building and energy management, self-optimised manufacturing, epidemic outbreak prediction, personal experience augmentation and more.

*Simon Chester, Communication Manager, OGC*

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## About the Workshop

Data is everywhere and is the fuel of our future. Everyone deals with mountains of data. According to the Global Survey Splunk, 55% of all data collected are dark data, that is, data collected but neither used nor having knowledge to analyze it. Data Science is synonymously statistics where database is dealt using statistical tools through AI and ML technologies. Geospatial Data Science is yet another name for statistics where big geospatial database is dealt using mathematical and statistical sciences through cyberinfrastructure and computational sciences.

Nowadays, due to fast development of hardware architecture and HPC, AI is applied in many fields of science and engineering. Recent years, integration of geospatial science and AI is becoming popular by the name GeoAI. In GeoAI study, ML and DL algorithm are used to develop intelligent programs to imitate the human perception and reasoning on geospatial data to discover new information and to solve environmental, societal and healthcare problems.

This workshop targets the young minds of India to excel their knowledge on diverse areas such as Geospatial Data, statistical tools, ML and DL. The major focus of this workshop includes (1) bringing the experts across the globe to discuss the latest trends; (2) enlightening the open problems and challenges; (3) threats and opportunities in the area of Geospatial Data Science and GeoAI.

## About IIT Tirupati

Indian Institute of Technology Tirupati (IIT Tirupati) is incorporated under the Institutes of Technology Act, 1961 and having its campus at Yerpedu-Venkatagiri Road, Yerpedu Post, Tirupati District, Andhra Pradesh-517619. It is the first among the 3rd phase of Indian Institutes of Technology, announced in 2014, to have its foundation stone laid in March 2015. IIT Tirupati started functioning with the support of its mentoring institute, IIT Madras, from the academic year of 2015-16. IIT Tirupati is currently offering the programmes – B.Tech, M.Tech, M.Sc, MPP, M.S(Research) and Ph.D. IIT

Tirupati has nine departments – Civil & Environmental Engineering, Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, Mathematics & Statistics, Physics, Chemistry and Humanities & Social Sciences. The pedagogy is aimed at nurturing innovation, creativity, quality, teamwork, communication skills, ethics, and societal interaction.

## About Technology Innovation Hub at IIT Tirupati

Positioning and Precision Technologies (PPTs) are indispensable tools for monitoring, integrating, and analyzing spatially and temporally distributed resources to aid in effective decision-making across multiple domains. These technologies include remote sensing (non-invasive), Geographical Information Systems (GIS) and Global Positioning Systems (GPS). The Technology Innovation Hub (TIH) primarily focus on Public Private Partnership (PPP) model to generate revenue through: (i) Research and development sponsorship from industries, government and start-ups in form of innovative products and services in PPT; (ii) linkage with industries, accelerators and Venture Capital to create funding ecosystem; (iii) training and consulting; (iv) standards development and policy creation for rapid adaptation of PPT across various stakeholders; and (iv) databank creation across strategic areas of PPT. IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF), a not-for-profit Section-8 company, is set up to host the Technology Innovation Hub (TIH) in Positioning and Precision Technologies (PPT).

For more details, please visit <https://iittnif.com>



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## Registration

The workshop will be conducted in Virtual Mode through zoom platform.



Please register for this workshop by scanning the above QR code or by clicking this link: <https://iittnif.com/registration>.

Registered participants will receive the zoom meeting details on 25th June 2022.

## Contact

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