

## ISG-ISRS National Symposium

GeoDiscover: Unravelling India's Spatial Frontier  
November 28<sup>th</sup>-30<sup>th</sup>, 2023



### Millennium Lecture

November 28, 2023 (Tuesday)

17:00 hrs – 17:30 hrs

on

**“Advanced & Novel Space  
Applications in New  
Space Era”**

by

**Shri. Nilesh M. Desai**

Director, SAC, ISRO, Ahmedabad

**Venue:** Auditorium Symbiosis  
International (Deemed University),  
Lavale Campus, Pune.

**RSVP**  
Secretary, ISG

### Brief Biography of Shri. Nilesh M. Desai



Shri Nilesh M. Desai, Distinguished Scientist, Director, Space Applications Centre (SAC), ISRO, Ahmedabad  
Shri Nilesh Desai is a top ranker and gold-medalist of 1986 BE (Electronics & Communication) batch of L.D.College of Engineering, Gujarat University, Ahmedabad. In his about 37 years of dedicated and illustrious engineering and research career at SAC, he had been involved in design and development of ISRO's Microwave Radars (RISAT, Oceansat

and NISAR), and realization of advanced & synergetic applications involving earth observation, navigation & communication technologies for societal benefits, governance and strategic uses. He is guiding activities related to remote sensing data processing, NavIC Receivers & Applications, SatCom terminals & ground segments for Mobile, Broadband & High Throughput communication satellites and advanced technologies like Quantum Frontiers & AI/ML. Thus, he has provided leadership and direction in developing and strengthening space infrastructure and its applications.

Many State-of-the-Art technologies utilized in projects for governance, development and strategic use involving synergetic satellite Communication & Navigation (called ComNav) based applications were developed under his leadership. He has made considerable efforts in popularizing and proliferating usage and applications of indigenous navigation technologies like NavIC & GAGAN for commercial, governmental and strategic users. He has also mentored the design of world class courses on Satellite Communication (SatCom) and Global Navigation Satellite Systems (GNSS), under the aegis of United Nations Centre for Space Science and Technology Education for Asia and the Pacific (UN-CSSTEAP).

He has represented ISRO/India at various International forums in Abu Dhabi, Austria, China, Dubai, France, Germany, Israel, Italy, Russia, Singapore, South Africa, Switzerland, United Arab Emirates and United Kingdom, including delegations at International Committee on Global Navigation Satellite System (ICG) meetings & conferences. He organized and presided over the ICG-14 held in India during Dec.-2019. He is the recipient of ISRO Performance Excellence Award-2018, ISRO Individual Merit Award-2010 and ISRO Team Award for RISAT-1 Payload for the year-2012. He is an active and contributing life member of many professional societies like Indian Society of Remote Sensing (ISRS), Indian Society of Geomatics (ISG), Astronautical Society of India (ASI) and Indian Society of Systems for Science and Engineering (ISSE). Till recently he served as National President of ISRS Executive Council during 2020-2022 and Presently, he is serving as the Vice President of ISSE-Ahm. Chapter.