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**INDIAN SOCIETY OF GEOMATICS**

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**20<sup>th</sup> Millennium Lecture**

*On*

**“Building Smart Futures:  
Exploring 3D Digital Twins”**

*by*

**Dr Aniruddha Roy**  
CTO, Genesys Int. Corp.

**Venue:** Dr. A.P.J. Abdul Kalam Technical University, Lucknow

**Date:** December 11, 2024 (Wednesday)

**Time:** 17:00 - 17:45 hrs

**RSVP**  
Secretary, ISG

### **Brief Biography of Aniruddha Roy**

Dr. Aniruddha Roy serves as the Chief Technology Officer at Genesys International Corporation Ltd., a leading Indian geospatial services and solutions company, headquartered in Mumbai. At Genesys, he is engaged in development of Digital Twins for urban infrastructure, utilizing advanced geospatial tools and technologies. His work is in alignment with India's National Geospatial Policy and global trends in smart city development, positioning the company as a key innovator in the geospatial industry.



With over 30 years of experience in geospatial technologies, Dr. Roy has a proven track record of managing large-scale geospatial initiatives. Before joining Genesys, he held the position of Vice President at Navayuga Engineering Company, where he successfully led high-impact projects such as the Delhi 3D GIS Project, the NSDI Geoportal, and the Karnataka Geoportal besides successfully delivering many international projects. Earlier in his career, Dr. Roy served as Technical Head at ESRI India, where he contributed significantly to advancing ArcGIS technology adoption across various sectors. As a researcher at the CSRE, IIT Bombay, he conducted pioneering studies on landslides in the Himalayas and Western Ghats, making impactful contributions to natural hazard management.

Dr. Roy holds an M. Tech in Applied Geology from IIT Roorkee, a Ph.D. in Environmental Science and Engineering from IIT-ISM Dhanbad, and an MBA in Disaster Management from IP University, Delhi. His academic and professional accomplishments have established him as a thought leader in the geospatial industry. A strong advocate for policy and standards development in India's geospatial sector, Dr. Roy has been actively involved with various national and international organizations. He is a member of the FICCI Space and Geospatial Committee and has also held position of Co-Chairman of the FICCI Committee on Geospatial Technology for two consecutive years (2021 and 2022). Additionally, he serves as a Technical Member of the Geospatial Committee at the Bureau of Indian Standards (BIS) and is a member of the DST Geospatial Skill Council. His contributions have been recognized with the title of 'Fellow' in Environmental Engineering by the 'Institution of Engineers' (India). He is also a life member of the Indian Society of Geomatics and the Indian Geotechnical Society.

Dr. Roy has published many technical papers in national and international journals, focusing on geospatial technologies, environmental engineering, and disaster management. His career reflects a commitment to innovation and sustainable development through geospatial technologies.