



# AMITY UNIVERSITY

UTTAR PRADESH

AMITY SCHOOL OF ENGINEERING  
& TECHNOLOGY, NOIDA

in Collaboration with



Organises

## INTERNATIONAL WORKSHOP on

# DIGITAL TWIN TECHNOLOGY (DTT)

14<sup>th</sup> October, 2024

Amity University Uttar Pradesh  
Sector-125, Noida, Delhi-NCR, India



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# ABOUT THE WORKSHOP

Digital twins are virtual representations of physical systems or processes that are used for modelling, simulation, and control. They enable a wide range of applications, from product design & optimization to predictive maintenance and smart cities. With the increasing availability of data and computational resources, digital twins are becoming more powerful and versatile, and are transforming many industries.

Digital twins promise tremendous potential to better understand and make use of cyber-physical systems in automotive, avionics, manufacturing, medicine, and many more domains. Despite many of the twinned systems being developed using models, engineering digital twins currently is ad-hoc and demands integrating different piecemeal technologies. The focus of frameworks used to create digital twins is on data acquisition, develop virtual model, simulation and visualization. With the advancement of machine learning and factors such as big data, these virtual models have become a staple in modern engineering to drive innovation and improve performance.

Technology is evolving at a rapid pace, enabling faster change and progress, causing an acceleration of the rate of change. At various forums, industry leaders are echoing the need for harnessing the power of cutting-edge futuristic technologies for economic growth and societal benefits. To shape the future of technology in the country, a talent pool and smart workforce are important pillars. It is imperative to upskill, reskill and align the to-be-technology leaders with industrial revolutions to establish a strong foundation for sustainable future.

The main objective of the workshop on “Digital Twin Technology” is to explore and discuss the role of this emerging technologies in designing intelligent and smart solutions through tech talks and presentations by industry thought leaders. The workshop will bring together leading researchers and practitioners across a wide spectrum of related fields to explore the challenges involved in the effective utilization of digital twin technologies for techno-socio-economic systems, and to exchange ideas, concepts, and approaches that aim to address associated challenges.



## OBJECTIVES:

To get an insight and understanding of trending digital twin(DT) technology across different sectors like Manufacturing, Automotive, Construction, Healthcare, Urban Planning and Management etc.

To provide a platform to get exclusive information about Models, methods, and techniques for developing digital twins

To network with officials from India's top C-suite Industry Leaders and Technology Heads working in DT domain.

To understand possibilities to joint collaboration with industries for research work in the domain of next gen technologies.

## WHO SHOULD ATTEND:



STUDENTS



RESEARCHERS



ACADEMICIANS



CORPORATES AND  
BUSINESSES



START-UPS

## SESSION TRACKS:

### Track 1:

A Primer on Digital Twin  
Technology

### Track 2:

Data Acquisition, Technology  
Enabler, Infrastructure for  
Digital Twins

### Track 3:

Platforms for Modelling and  
Simulation in Digital Twins

### Track 4:

Scenarios of Digital Twin  
Technology in the Automotive,  
Infrastructure and Healthcare  
Sector



## EMINENT SPEAKERS:



**Mr. Dan Issac**  
CTO  
Digital Twin  
Consortium USA



**Mr. Anil Srivastava**  
President  
Open Health System  
Laboratory USA



**Mr. Sean Whiteley**  
Founder  
AxoMem Pte Ltd  
Singapore



**Mr. P. K. Gupta**  
Global CTO  
Dell Technologies  
Singapore



**Mr. Nicolas Waern**  
CEO & Founder  
WINNIIO, Sweden



**Dr. Aniruddha Roy**  
CTO  
Genesys Intl.  
Corporation Ltd



**Mr. Rajesh Dhyani**  
Executive Director  
Hexagon R&D India



**Mr. Vijay Kumar**  
CTO  
Esri, India



**Mr. Kamal Sharma**  
Group CEO  
Kambill



**Mr. Raghavendra Bhat**  
Principal Engineer  
Intel Technology India  
Pvt.Ltd.

## REGISTRATION:

Registration Link: <https://amity.edu/trace2024/registration.asp>

Category	Registration Fee
Students Participant	₹1000
Delegates from R&D and academic institutions	₹2000
Delegates from industries	₹5000
International Participants	\$100

# ORGANIZING TEAM:

## PATRONS-IN-CHIEF

Dr. Ashok K Chauhan, Founder President, Ritnand Balved Education Foundation (RBEF), India

Dr. Atul Chauhan, Chancellor, Amity University Uttar Pradesh, India & President, RBEF, India

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## PATRON

Dr. (Mrs.) Balvinder Shukla, Vice Chancellor, Amity University Uttar Pradesh, India

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## GENERAL CHAIR

Prof. (Dr.) Manoj Kumar Pandey, Director, ASET, Amity University Uttar Pradesh, India

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## GENERAL CO-CHAIR

Mr. Anil Srivastava, President, Open Health Systems Laboratory, (OHSL)

Mr. Dan Isaac, CEO, Digital Twin Consortium

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## WORKSHOP CHAIR

Prof. (Dr.) Madhuri Kumari, Dy Director, ASET, Amity University Uttar Pradesh, India

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## INTERNATIONAL ADVISORY COMMITTEE

Mr. P K Gupta, DELL Technologies

Dr. Mihir Parikh, Nishith Desai Associates

Mr. Raghavendra Bhat, Intel

Mr. Jeremy Balian, TileDB

Mr. Anat Bernstein, Reich

Mr. Nicolas Waern, Winniio

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## ORGANIZING COMMITTEE

Dr. Koninika Ray, OHSL

Dr. Jeeven Saini, OHSL

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Dr. Shailendra Jain, Assoc. Professor, ASET

Mr. Alok Kr. Tiwari, AGM, CRC, ASET

Ms. Anju Khanna, Sr. Manager, CRC, ASET

Ms. Priyanka Singh, Manager, CRC, ASET

## ABOUT AMITY UNIVERSITY

Amity University is a highly research-focussed, innovation-driven and interdisciplinary University with over 35,000 full-time students at its main campus in Noida (Delhi NCR). The focus on quality has led the University to be ranked # 35 among all Indian Universities in NIRF 2023, the # 1 Private University since the last nine years by India Today and amongst the top 3% Universities globally by QS and Times Higher Education. Amity is also the only University in India to have US regional accreditation by WASC (USA) and by QAA (UK). It is part of the Amity Education Group with over 2,00,000 students across campuses in 16 countries.



### CONTACT US

E - Block, Amity School of Engineering and Technology,  
Amity Campus Sector - 125 Noida- 201303

Prof. (Dr) Manoj Kumar Pandey  
Prof. (Dr) Madhuri Kumari

mkpandey1@amity.edu  
mkumari@amity.edu

+91-8448487795  
+91-9891300776