

Free Webinar on Role of Digital Transformation in Industrial Inspection - Trends and Advances



GUEST SPEAKER

Dr. Shyamsunder Mandayam

About the speaker:

Chief Scientific Advisor, Azeriri Pvt Ltd, Chennai
Mentor, TeraLumen Solutions Ltd, Chennai
Technical Advisor, National Research and Design Forum
Vice President, Indian Society of Nondestructive Testing (ISNT)
Chairman, Training Management Board - ISNT

Former Principal Scientist / Quality & Innovation Leader at GE Global Research (2000 to 2020)

Former Senior Scientific Officer @ IGCAR, Kalpakkam (1984 to 2000).

A B.E (Metallurgy) from MS University Baroda and Ph.D from IIT, Kharagpur, He is a 38 years experienced innovator, researcher, technologist and trainer with deep domain expertise in the multidisciplinary area of Nondestructive Evaluation (NDE). Worked extensively in the development of new and Advanced NDE / Inspection techniques, driving the vision and prepared roadmaps for next generation.

He is currently mentoring, advising and incubating a few start-ups and pioneering the adoption of NDE 4.0 and Inspection through digital transformation (IoT, Digital Twins, AR/VR, Analytics using AI and ML.)

He has 12 patents and 170+ papers in various journals, books and proceedings and delivered 90+ invited talks.

Saturday, 05 Nov
10.00 am - 12.30 pm



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About topic:

Industry's continued and increasing demand for safety, reliability and productivity combined with the usage of newer materials and manufacturing processes, innovative and complex designs of components and structures for higher efficiencies has brought in a lot of focus and attention on the need for automation at every step of the process. Industrial inspection using Nondestructive Evaluation (NDE) and Inspection technologies has undergone a phenomenal change in the way they are being developed, adopted, deployed and implemented in today's world. The highly multidisciplinary area of NDE is an integral part of every industry be it metals manufacturing, aerospace, automotive, power, nuclear, oil & gas, renewables, defence, etc.

From the time where every step of the process (inspection, scanning, data analysis, part disposition) was entirely manual, the industry is demanding and adopting automation and greater speed, reliability and safety at every step. The benefits accrued by several other allied domains through effective use of Digital Transformation including automation is also a motivation for accelerated deployment in this area. The domains which are helping revolutionize the world of Digital Transformation in Inspection are wide ranging from sensors, communications, robotics, drones, electronics, high density interconnect, software, IIoT, materials, manufacturing, machine learning, artificial intelligence, data analytics, cloud infrastructure, virtual and augmented reality and many more. While each one of these is contributing to the change, it is the holistic synergies between these multidisciplinary areas which is the true disrupting element of Digital Transformation for the entire lifecycle. This presentation will highlight the various trends and advances being observed towards Digital Transformation and its impact on industrial inspection.

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