(30th – 31st March 2026)

DINS-2026 Special Session on

"The Future of Digital Transformation: Data, Cloud, and AI at Scale"

Aims and scope of the session:

This session focuses on the evolving landscape of digital transformation driven by the convergence of **data, cloud, and artificial intelligence**. It aims to examine how organizations and public institutions are moving toward **AI-native, scalable, and resilient digital systems** that enable intelligent decision-making and automation at scale. We will also go through a very important topic on how it is tied to **national security**.

The session covers modern data and cloud architecture, Generative and Agentic AI integration, large-scale system modernization, and governance considerations such as security, trust, and compliance. It highlights practical experiences, architectural patterns, and emerging trends that support sustainable, enterprise- and national-scale digital transformation.

Topics of interest:

- Data, cloud, and AI convergence
- Scalable digital transformation architectures
- Generative and Agentic AI applications
- Cloud modernization and automation
- Data governance, security, and trust
- Enterprise and National-scale case studies

Special session organizer:

1. **Ramesh Somayajula**
   Principal Engineer Data & AI
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I serve as **Principal Engineer – Data & AI at T-Mobile US Inc**, where I lead strategic initiatives that integrate advanced analytics, machine learning, and modern data architectures to generate actionable insights at enterprise scale. My notable accomplishments include:

- Designing and implementing enterprise-**grade AI/ML solutions**, such as a company-wide churn prediction system that leverages real-time data pipelines and predictive modeling.
- Architecting hybrid and multi-cloud data lake infrastructures (across AWS, Azure, and on-premises) to enable robust analytics and AI capabilities.
- Engineering scalable streaming pipelines and reusable frameworks for data ingestion, transformation, and validation, significantly improving data quality and agility.
- Publishing scholarly articles on federated learning, explainable AI, and zero-ETL systems to contribute to the advancement of intelligent, secure, and scalable data systems.
- Receiving awards such as the **T-Mobile Extraordinaire**, **CMIS Rock Star**, and **Data Palooza**, recognizing innovation and excellence in AI and data architecture.
- Contributing to IEEE as a **peer reviewer, session chair, and judge** for 20+ conferences such as ICCTDC, ICOCT, and INCET.
- I have had the privilege of serving as a Keynote Speaker at multiple prestigious international conferences, including those organized under the aegis of IEEE and Springer. In these forums, I delivered keynote addresses on emerging research trends, technological advancements, and industry applications, contributing to global knowledge exchange and fostering collaboration among academia and industry leaders
- Filing patents in areas like AI-driven code conversion (Agentic AI) and contextual sales enablement systems.
- I am honored to hold prestigious professional recognitions, including Senior Member status with the IEEE, Fellow Membership with the IETE, and Distinguished Membership with the SCRS Society, reflecting my sustained contributions, leadership, and commitment to advancing research and innovation in my field.
- In addition to my technical background, I actively mentor engineering teams and advocate for the ethical application of AI and data technologies. I am deeply aligned with IEEE's mission to foster innovation and professional excellence and would be honored to support your event as a reviewer or judge.