

Technical Seminar on AI-Powered Infrastructure Reliability

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The Dallas Chapter of the IEEE Reliability Society, in conjunction with the Department of Computer Science at The University of Texas at Dallas, organized a two-hour lecture titled “Always On, Always Aware: Building AI-Powered Infrastructure Reliability” on May 29, 2026.

The lecture, delivered by Dr. Mark Bentsen, Vice Chair of the Dallas Chapter of the IEEE Reliability Society, discussed how AI can be applied to infrastructure reliability, business operations, security, and engineering practice. It also addressed the importance of connecting engineering work with business outcomes and using AI-driven approaches to identify potential problems before they become visible.

Additional topics included the importance of high-quality, unbiased data capture and data integrity for reliable measurement, as well as practical examples involving reliability and operational performance. The discussion further covered AI-native security, why testing AI is difficult, and how data integrity and architectural choices affect the usefulness and cost of data platforms. The talk concluded with a discussion of future AI developments, including vision models and autonomous systems, and the importance of applying AI to real-world engineering problems.



Lecture by Dr. Mark Bentsen (May 29, 2026)