

# PREDICTING THE UNPREDICTABLE: REAL-TIME EDGE AI FOR INTELLIGENT TRANSPORTATION



**BÁRBARA BESSOLO**

Founder and CEO, DynamoEdge

**WEDNESDAY, APRIL 8, 2026  
11:30 AM – 12:30 PM  
HINE HALL, IP 231**

875 W North St, Indianapolis, IN 46202

Closest Visitor Parking: North Street Parking Garage  
819 W North St, Indianapolis, IN 46202

Online:  
<https://tinyurl.com/3hwvztcu>



## BIO

Bárbara Bessolo is the Founder and CEO of DynamoEdge, a Carmel, Indiana–based company developing real-time edge AI technologies for connected vehicles, fleets, and intelligent transportation systems. Originally from Argentina, she is an entrepreneur and technology executive with prior senior leadership experience at Technicolor, where she served in roles including Senior Vice President and Head of Connected Home Americas. She later founded DynamoEdge to advance predictive AI systems capable of anticipating equipment and vehicle performance before failures occur. Under her leadership, the company has developed the AUTONET platform, which focuses on real-time sensor-data processing for predictive and prescriptive decision-making in transportation and networked operations. DynamoEdge has collaborated with organizations such as AT&T, and Bessolo is an inventor on the U.S. Patent No. 12,518,219, which relates to real-time processing of vehicle sensor data to predict future outcomes.

## ABSTRACT

This presentation examines the use of real-time edge artificial intelligence for predictive monitoring, adaptive control, and operational optimization in intelligent transportation systems. In contrast to conventional AI frameworks that rely primarily on retrospective, cloud-based analytics, edge AI architectures enable low-latency processing of multisensor data directly within the vehicle or fleet environment. This capability supports continuous assessment of vehicle health, performance, and operating conditions in dynamic settings. The talk highlights DynamoEdge's AUTONET platform as a case study in real-time predictive and prescriptive analytics for connected mobility, with applications spanning motorsports, commercial fleets, and broader transportation infrastructure. Particular emphasis is placed on the ability of edge-based systems to anticipate performance degradation, reduce downtime, improve energy efficiency, and support autonomous operational decision-making. The presentation also considers the broader implications of scalable edge intelligence for safety, sustainability, and next-generation mobility services, illustrating how adaptive AI at the edge can serve as a foundational layer for autonomous and connected transportation ecosystems.



Mechanical Engineering