DynamoEdge Secures 20-Year Patent

Breaking the Limits of Static AI Models

Carmel, Indiana Jan 7, 2026 (Issuewire.com**)** - DynamoEdge, a pioneer in real-time edge AI solutions, today announced that the United States Patent and Trademark Office (USPTO) has granted **U.S. Patent No. 12,518,219** to its core technology for continuous, real-time intelligence. Published in the USPTO's Official Gazette, the patent – titled "**Apparatus and Method for Processing Sensor Data to Predict Future Outcomes**" – **protects DynamoEdge's flagship AI platform for the next two decades.**

This newly patented approach transforms traditional static prediction models into **real-time dynamic intelligence**, enabling AI systems that **continuously learn from live sensor data** to accurately predict and improve performance on the fly.

Most AI systems today rely on static models: they are trained once on historical data, then essentially frozen in place, hoping that real-world conditions remain unchanged. The problem is **our world isn't linear** – machines, vehicles, people, and environments are constantly shifting, drifting, and changing in subtle ways. Static models quickly **lose accuracy in dynamic conditions**, as starkly revealed during unpredictable events like global crises. In contrast, DynamoEdge's adaptive AI platform is built on a simple conviction: **intelligence has to adapt in real time, because the world does.** By learning new patterns as they emerge, the system automatically adjusts its predictions even in rapidly changing environments. This breakthrough finally makes it possible to **"predict the unpredictable"** by closing the gap between AI models and real-world complexity.

DynamoEdge's Patented Real-Time Intelligence Solution

At the heart of the patent is a novel method for **wirelessly processing live sensor streams at the network's edge** and continuously updating AI models based on that incoming data. In practice, the DynamoEdge platform creates a digital twin of each asset's sensors – whether in a vehicle, aircraft, ship, or industrial equipment – and compares each new data point to historical behavior in milliseconds. Instead of making assumptions that conditions will remain static, the platform **delivers actionable insights instantly and evolves with each datapoint.**

This dynamic, on-the-fly learning dramatically reduces the overhead of traditional AI. "You can't predict the future with static models – but with an AI that never stops learning, now you can," says **Barbara Bessolo, Founder and CEO of DynamoEdge**. "This patent doesn't just recognize our innovation; it validates a belief we've held from day one. Real-time intelligence that continuously adapts is the key to turning uncertainty into foresight.

"Congratulations to the Dynamoedge team! Huge accomplishment - Says **Michael White**, former **DIRECTV CEO,** and **Bank of America** Board Member

Solving Fundamental Challenges in AI Deployment

By abandoning the constraints of static training, DynamoEdge's real-time AI platform addresses several **pain points of conventional AI**:

- **No Costly Retraining Cycles:** Because the model learns continuously from streaming sensor data, there is no need for periodic offline retraining on massive datasets. The AI "refreshes" itself in real time, saving significant time and effort in model maintenance.

- **Minimal Energy & Compute Footprint:** The patented edge-learning method consumes **over 90% less energy** than traditional cloud-based AI training. This means no exorbitant electricity bills or oversized computing clusters – a more sustainable approach that delivers greener AI without sacrificing performance.

- **Lower Data Storage Needs:** Rather than shipping every data point to a central cloud and storing it indefinitely, DynamoEdge analyzes data on the fly at the edge. This **eliminates the need for expensive data warehouses** and high-bandwidth transfers, drastically cutting storage and infrastructure costs.

- **Adaptive, Never Static:** Unlike static models that rely on fixed assumptions, DynamoEdge's AI evolves with each new input. It doesn't operate on stale insights – it continuously updates its understanding of the system, ensuring predictions remain accurate even as conditions change.

These advantages not only reduce the total cost of ownership for AI implementations but also **remove latency and inertia** from the AI lifecycle. **Technical leaders** can deploy models that start delivering insights in seconds and keep improving, while **investors** can appreciate the significantly lower operational costs and faster ROI of a system that doesn't require constant re-training or cloud compute power.

Proven in Extreme Environments – From Racecars to Industry

DynamoEdge's technology has already proven its mettle in some of the most **demanding, high-speed environments**. In the world of IndyCar racing, for example, DynamoEdge's real-time AI was deployed on race cars hurtling at 240 mph, each outfitted with hundreds of sensors. The platform processed this torrent of telemetry in real time and successfully **predicted critical failures and risk conditions laps before they occurred**, giving pit crews vital seconds to adjust strategy and prevent disaster. In an arena where milliseconds matter, the system's ability to turn unpredictable events into warnings has **enhanced safety and performance on the track.**

This same capability – to glean foresight from chaos – translates directly to more everyday scenarios. "What we achieved in racecars was just the beginning," adds Bessolo. "If our AI can keep up with an IndyCar, it can handle the variability in a fleet of trucks, a power plant, or a telecom network. The potential impact is immense."

A New Era of "Predicting the Unpredictable"

The award of this patent is a major milestone for DynamoEdge, not just for the 20 years of intellectual property protection it has, but for the validation of the vision behind the technology. It signals a shift in how the industry views predictive analytics – moving away from static models that **hope** the future looks like the past, to adaptive systems that learn as they go.

With this innovation now officially recognized, DynamoEdge is doubling down on bringing **real-time adaptive intelligence** to customers globally. The company credits its dedicated team and forward-thinking partners for reaching this point, and hints that the journey is far from over. "This patent is just the beginning," says Bessolo. "We're excited to scale this technology and continue turning what-if into what's next."

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