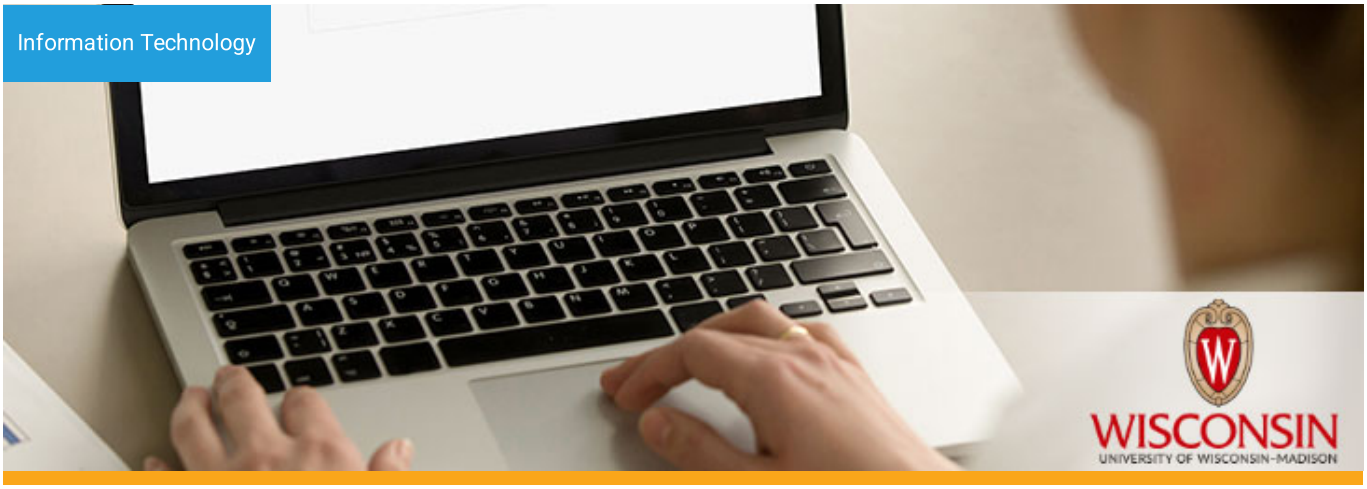
Information Technology



View U.S. Patent Application Publication No. US-2023-0376766 in PDF format.

WARF: P220141US01

Inventors: Mohit Gupta, Matthew Dutson

The Invention

UW-Madison researchers have created an event neural network system and associated methods, comprising a family of neural networks in which neurons transmit (thereby triggering downstream computation) only when there is a significant change in their activation. Neurons fire only when they have something “interesting” to say, leading to increased efficiency and accuracy.

Applications

Ideal for applications that require processing video data at high speeds with minimal power budget including:

- Robotic navigation
- Surveillance
- Autonomous vehicles
- Drones
- IoT/edge devices

Key Benefits

- Improved efficiency for video analysis.
- High accuracy inference.
- Reduced computation costs.

Additional Information

For More Information About the Inventors

- Mohit Gupta

Tech Fields

- Information Technology : Computing methods, software & machine learning
- Information Technology : Image processing

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867