

White Paper

Pattern of Life Video Analytics (POLVA)

POLVA is a technique for identifying and analyzing patterns in human behavior using video footage. It can be used to understand the current state of an individual or group, detect anomalies, and predict future behavior.

POLVA uses a variety of computer vision and artificial intelligence techniques to track and analyze objects in video footage. It can identify individuals, their movements, and their interactions with other people and objects.

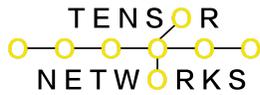
POLVA can be used in a variety of industries, including:

- Retail: To track customer behavior and identify opportunities for improvement.
- Security: To detect suspicious activity and prevent crime.
- Transportation: To monitor traffic flow and identify bottlenecks.
- Manufacturing: To improve efficiency and quality control.
- Healthcare: To monitor patient movement and provide care.
- Education: To monitor student engagement and provide individualized instruction.

Use Case Examples

Here are some specific use cases for POLVA:

- Retail: POLVA can be used to track customer movement throughout a store, identify popular products and displays, and measure the effectiveness of marketing campaigns.
- Security: POLVA can be used to detect suspicious activity in public places, such as airports, train stations, and shopping malls. It can also be used to monitor for potential security threats in sensitive areas, such as government buildings and military bases.



- Transportation: POLVA can be used to monitor traffic flow and identify bottlenecks on roads and highways. It can also be used to detect and prevent traffic accidents.
- Manufacturing: POLVA can be used to monitor production lines and identify potential quality control issues. It can also be used to track the movement of employees and identify potential safety risks.
- Healthcare: POLVA can be used to monitor patient movement in hospitals and nursing homes. It can also be used to track the behavior of patients with dementia or other cognitive impairments.
- Education: POLVA can be used to monitor student engagement in the classroom. It can also be used to identify students who may need additional help.

Benefits of POLVA

POLVA offers a number of benefits, including:

- Improved situational awareness: POLVA can provide real-time insights into human behavior, which can help organizations to better understand the situation and make better decisions.
- Reduced crime: POLVA can be used to detect and deter crime, making communities safer.
- Improved efficiency: POLVA can help organizations to improve their efficiency by identifying and addressing bottlenecks.
- Enhanced safety: POLVA can be used to identify and mitigate safety risks.