LEGO Fusion: Robust Video Anomaly Detection

Title and Abstract

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Abstract: My honours thesis focuses on developing a novel graph-based multi-modal fusion method for video anomaly detection. By leveraging graph power expansions and a learnable fusion operator, the method captures deeper structural relationships in data, enhancing the detection of anomalies in complex visual datasets. The approach demonstrated strong performance across multiple datasets, pushing the boundaries of multi-modal fusion techniques.

Key Achievements

- Developed and implemented a graph-based multi-modal fusion method.
- Demonstrated improved performance over traditional methods in video anomaly detection.

Quote: "When life gave me anomalies, I built LEGO Fusion to detect them."