Patent Search

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Abstract:

ABSTRACT AI DRIVEN CRIME DETECTION USING EXISTING CCTV NETWORKS The present invention provides an AI-driven surveillance system (100) that enhances exist networks through advanced machine learning and video transformer architectures. The system preprocesses live video feeds to extract and normalize frames, enabli spatio-temporal feature analysis using weakly supervised learning models. Detected anomalies and criminal activities are automatically classified and stored in a cen database, which integrates seamlessly with a real-time alerting mechanism. The alerts transmitted through an Android application to authorized personnel for imme and response. A human in the loop validation component ensures accuracy by allowing manual verification of detected events, thereby minimizing false positives. Th operates on existing infrastructure by significantly improving scalability and cost efficiency while reducing manual monitoring effects. Overall it provides a reliable, re intelligent surveillance solution for proactive crime detection and law enforcement support.

Complete Specification

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FORM 2
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENT RULES, 2003
COMPLETE SPECIFICATION
(See Section 10 and Rule 13)
AI DRIVEN CRIME DETECTION USING EXISTING
CCTV NETWORKS
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