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(57) Abstract :
METHOD AND SYSTEM FOR REAL-TIME ANOMALY DETECTION USING COGNIWATCH, AN AUTONOMOUS LEARNING ENSEMBLE ABSTRACT
The invention pertains to a method and system for real-time anomaly detection utilizing CogniWatch, an autonomous learning ensemble. The method involves receiving data streams from various sources (Step 202), preprocessing the data for consistent analysis (Step 204), and training the autonomous learning ensemble using historical data to establish a baseline model (Step 206). Continuous updates (Step 208) incorporate adaptive learning mechanisms and a variety of machine learning algorithms (Step 210) such as neural networks and decision trees. Deviations from the baseline are evaluated (Step 212), triggering real-time alerts (Step 214) with relevant information. The system (100) integrates CogniWatch (108), data preprocessing modules (110), a training module (112), machine learning algorithms (114), a feedback mechanism (116), a user interface (118), and an alerting module (120). This innovation enhances anomaly detection accuracy, adaptability, and usability in monitoring systems.

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