Knowlesys: Using Social Media and AI to Enable Real-Time Event Monitoring and Early Warning in Smart Cities

UNITE STATES, June 6, 2024 /EINPresswire.com/ -- The Importance of Smart City Event Monitoring and Early Warning
Modern cities face a variety of risk challenges, such as natural disasters, accidents, and public health events. With the acceleration of urbanization and the increasing scale and complexity of cities, how to detect and warn in a timely manner during various events has become an important topic in modern urban governance. The traditional monitoring and early warning model often has problems such as untimely information acquisition, slow decision-making response, and unreasonable resource deployment, which is difficult to meet the needs of modern urban governance.

KIS: Web Intelligence Monitoring System

Social Media Data Reflects Social Dynamics and Public Sentiment
The role of social media in the dissemination of social information is becoming more and more prominent in the monitoring of urban events.

With the help of information technology, such as Knowlesys Intelligence System's (KIS) social media data collection function, we can capture real-time information on X, Facebook and other social media platforms related to the event, including the scene of the event, public sentiment, and requests for help. By analyzing these data, we can quickly understand the nature, scale and impact of the incident and provide a basis for formulating response strategies.

Using AI to Analyze Public Sentiment

AI sentiment analysis is an emotion recognition method based on natural language processing

technology, which can automatically judge the emotional tendency of text data. In event early warning, AI sentiment analysis can help city managers gain an in-depth understanding of the public's emotional state, providing a reference for the development of targeted warning strategies.

By using KIS, text data such as comments and posts about events on social media can be analyzed for emotional tendencies. This helps to understand the public's views and attitudes towards the incident and identify potential social conflicts and dissatisfaction in a timely manner. Based on this information, city managers can formulate early warning measures that are closer to the public's needs and improve public satisfaction and cooperation.

How Social Media and AI Enable Real-Time Event Monitoring and Early Warning in Smart Cities?

Automatic Triggering of Early Warning Mechanisms
By collecting event-related information on social media and conducting sentiment analysis, we can detect potential safety hazards and the first signs of crisis in a timely manner. Once abnormalities are detected, the system will automatically trigger an early warning mechanism to remind relevant departments and personnel to take measures in time to avoid the situation from expanding.

Rapid Response and Decision Making
Real-time analysis based on social media data and judgment of emotional tendencies can quickly understand the nature and scope of influence of the incident, providing strong support for the development of response strategies. Meanwhile, through data-driven decision-making analysis, the effectiveness and risks of different response options can be scientifically evaluated to select the optimal option for implementation.

Accurate Resource Allocation and Scheduling
Through in-depth mining and analysis of social media data, it is possible to understand the public's needs and the distribution of resources. Based on this information, resources can be accurately deployed and dispatched to ensure that they can quickly reach the most needed places and satisfy the public's needs to the greatest extent possible.

Information Release and Public Opinion Guidance
In event monitoring and early warning, timely, accurate and comprehensive information release is crucial to stabilize public sentiment and maintain social stability. Through social media data collection and AI sentiment analysis, it is possible to understand the public's information needs and emotional state and develop targeted information release strategies. In addition, social media platforms are used to guide public opinion, actively respond to public concerns, and eliminate the negative impact of inaccurate information and rumors, thus maintaining public interest and social harmony.

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