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(31) Priority Document No	:NA	(72) Name of Inventor :
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(57) Abstract :

The present invention discloses a computer system (101) for real-time early warning weather alerts that integrates IoT-enabled sensors (102), satellite data (103), AI analytics engine (104), multi-channel dissemination system (105), and geospatial visualization module (106). The system generates precise, location-specific weather warnings, reduces false positives, and disseminates alerts across multiple communication platforms to ensure timely action. It further incorporates adaptive feedback mechanisms to enhance reliability and scalability, offering an effective tool for disaster preparedness, community safety, and institutional decision-making.

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