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(57) Abstract :
ABSTRACT Personalized Asthma Trigger Prediction and Prevention System The present invention relates to a Personalized Asthma Trigger Prediction and Prevention System (100) designed to provide early warnings and preventive guidance for asthma patients. The system comprises a wearable biosensor module (102) to monitor physiological parameters such as breathing pattern, heart rate variability, and skin conductance, and an environmental sensor module (104) to measure air quality, allergen levels, temperature, and humidity. An AI-based processing system (106) analyzes aggregated data to predict asthma risk levels. The results are shown on a risk display interface (108) using a green-yellow-red visual indicator. A mobile application (110) enables user interaction, visualization, and history tracking. A power supply unit(114) and connectivity unit (112) ensures continuous operation and data transmission respectively. Reference Fig 1

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