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(57) Abstract :

The present invention discloses a logistics route optimization device (100) employing predictive analytics to enhance delivery efficiency. The device comprises an embedded processor (102), GPS receiver (106), predictive analytics engine (110), touchscreen interface (104), and cloud communication module (112). It integrates real-time traffic, weather, and historical delivery data to forecast potential delays and suggest optimized routes. The system dynamically adapts to changing conditions, minimizes fuel consumption, and improves delivery timeliness, thereby offering a smart, data-driven solution for logistics fleet management.

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