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AI-Powered Carry-On Baggage Analytics for Airports

NEC Baggage Analytics

As more air travelers opt for carry-on luggage, AI-powered NEC Baggage Analytics enables airlines and airport authorities to automatically count and size check hand-carried bags during passenger boarding.

In collaboration with BagsID, NEC Baggage Analytics combines computer vision and deep learning algorithms to profile bags across the globe. The future of baggage is biometric:

Virtual Tag – Each image set becomes a virtual tag, a digital fingerprint that holds the baggage data.

Data by Design – Images are used to track the bag journey, without the need for Personal Identifiable Information (PII) data.

NEC Baggage Analytics detects and identifies the number, size and configurable category/type of hand-carried baggage screened in real-time, during the boarding process. If the baggage count reaches the pre-defined maximum allowance threshold for the specific aircraft, the solution will immediately alert the agent/airline staff. The robust and effective Baggage Analytics solution facilitates timely actions to ensure flight safety and comfort.

NEC's cutting-edge AI technologies and advanced Interference Data Model empowers intelligent, real-time image analysis and information dissemination with high accuracy and speed.

NEC Baggage Analytics transforms the stressful and time-consuming process that airlines and passengers undergo during boarding. With a surge in air travel around the world, the automation of baggage counting delivers unparalleled convenience to both operators and passengers, allowing agents to focus on other passenger needs rather than manually count carryon bags.

Key Solution Features

Enhanced Operations
Automate the process to eliminate baggage counting bottlenecks during boarding for higher operational efficiency and accuracy.

Manpower Saving
Eliminate manual baggage counting and offer more value-added services for passengers.
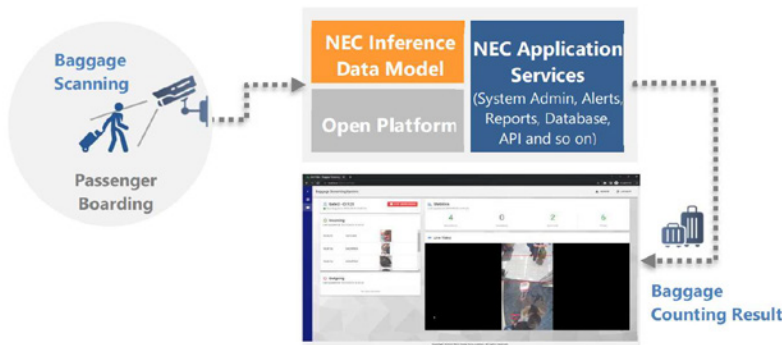
Flight Safety & Comfort
Effective detection and identification of bags to better control loads, flight safety and comfort.
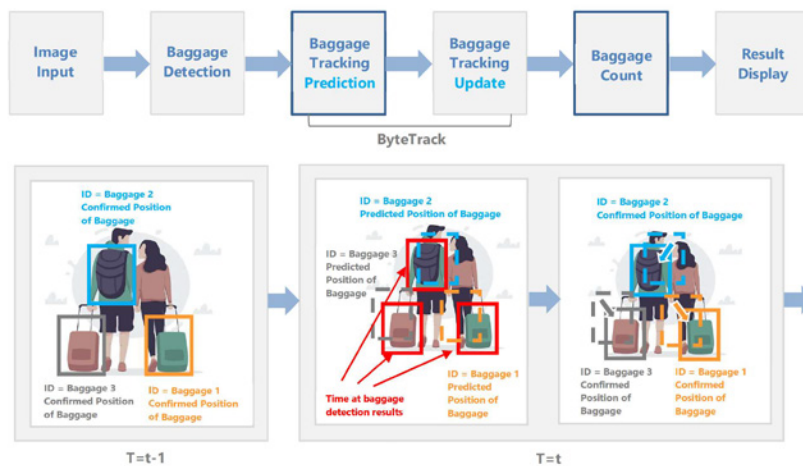
Improved Customer Experience
Efficient boarding enhances convenience for passengers, resulting in higher customer satisfaction.

System Overview

Process Flow

Why NEC Baggage Analytics

Continuous Innovation

Decades of experience in Machine & Deep Learning research, diversified and flexible applications.

Proven Expertise & Experience

Our team has aviation industry enterprise and government experience.

High Flexibility & Adaptability

Baggage Analytics offers flexible infrastructure, allowing use of cloud or on-premise approach. The solution can leverage current video cameras at the gate. Configurable to identify baggage size and counts to generate capacity threshold alerts.

Easy Integration

Baggage Analytics easily integrates with the existing systems of airports of all sizes.

Contact Us

To learn more about NEC Baggage Analytics, Mobile Boarding, Digital ID and frictionless traveler experiences, please visit necam.com/Aviation/.

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