

# **REAL-TIME SUSPICIOUS PASSENGER DETECTOR FOR AIRPORTS**

**H.B.D. Hasara**

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**Department of Computing**

**Informatics Institute of Technology, Sri Lanka**

**in collaboration with**

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## **Abstract**

With the increase of recent terrorist and criminal activities, it is important to maintain higher security measures in the aviation industry. To prevent any threats or potentially dangerous situations from arising or entering the country it is critical to identify them effectively at the earliest.

There are numerous systems and mechanism have been developed over the recent years, but most of them limited to the potential of identifying know terrorist and criminals according to a predefined watch list.

So the most efficient way of identifying suspicious passengers and events in real-time is based on observing passengers' behavior patterns and appearance patterns which is known as Behaviour profiling technique. With the increase of passenger growth in the aviation industry, more resources are needed to effectively identify these events.

So this paper reveals an approach to develop an intelligent surveillance application targeting the airport domain which can identify people who may pose a potential threat by analyzing several appearance patterns and behavior patterns. Ultimately it helps to strengthen the security, minimize the tasks of security officers and help them see the 'unseen' and enhance the efficiency and the robustness of the process.

### **Key words:**

Object detection, Object Tracking, Action recognition, Pose estimation, Surveillance