

# CS5811 Project Proposal: Predicting Flight Delays Using Bayesian Belief Networks

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## **1 Project Overview**

Our project will analyze data to predict a probability that a flight will be delayed, and perhaps how long the delay might be. We are motivated to solve this problem because flight delays are a fairly common thing and there seems to be no good source for predicting this. Flight delays are generally only announced about an hour or so before the flight is set to takeoff and they can change unreliably. Our solution can't guarantee 100% accuracy for predicting a delay, but it will attempt to better prepare passengers for any possible delays.

### **1.1 Problem description**

### **1.2 State of the Art**

### **1.3 AI techniques**

We plan to use Bayesian Belief Networks to compute the probability of a delay.

## **2 Tasks**

## **3 References**