Poster ID: 16

## Poster Session at Graduate School Information Fair Predicting Traffic Congestion in Transportation Networks

## **Importance**

Predicting traffic congestion is crucial to achieve the following:

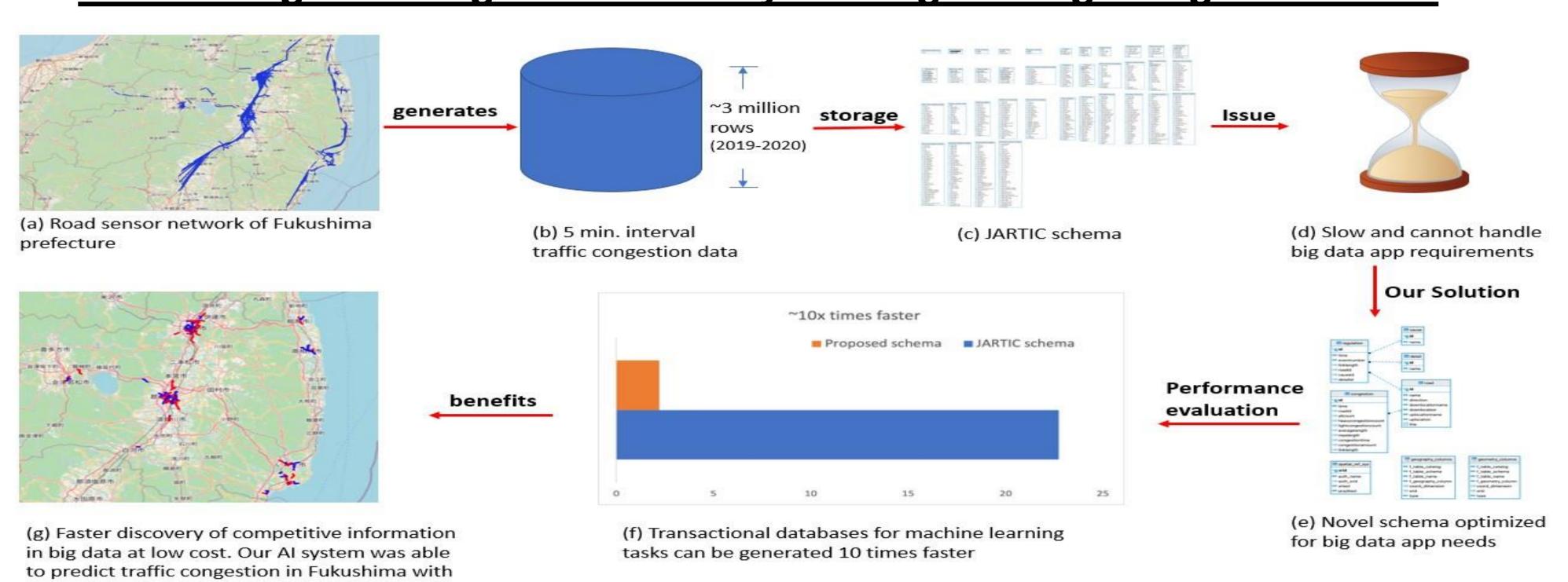
- 1. Sustainable Developmental Goals
- 2. Autonomous driving
- 3. Saving lives
- 4. Smart Cities and
- 5. Disaster management

an accuracy of 83.5%

## **Challenges**

- 1. How to store big congestion data effectively?
- 2. Which is the best model to predict traffic congestion?
  - 1. Several models exist to predict traffic congestion
  - 2. Each model has its own selection bias
  - 3. Selecting a right prediction model is an open-research problem.
  - 4. Our research aims to address this open-research problem by evaluating various existing prediction models

## Addressing Challenge-1: Efficiently Storing the Big Congestion Data



**Figure 1**: Proposed novel data warehouse schema to store traffic congestion data. Our schema allows us to create train-test datasets 10 times faster than the state-of-the-art.

