Taokui LI | Civil Engineering Postgraduate

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Core Skills

Civil Engineering

ML/DL

• SHM

• Computer Vision

• Structural Vibration

• Research Analysis

Education

MSc Civil Engineering (Distinction, GPA: 3.59/4.00)

City University of HONG KONG (Sep. 2022 – Aug. 2022)

<u>Thesis</u>: "Structural Damage Detection based on ANNs".

<u>Modules</u>: Modern Structural Engineering; Methods of Analysis in Civil Engineering and Engineering Mechanics;

Transportation and Land Planning; Virtual Design and

Construction; Geomechanics.

BEng Civil Engineering (GPA: 3.42/4.00)

Henan University (Sep. 2016 – June 2020)

<u>Thesis</u>: "Design of a simply supported beam Bridge".

<u>Modules</u>: Structural Mechanics; Theoretical Mechanics;

Material Mechanics; Soil Mechanics; Elastic Mechanics;

Hydro-Mechanics; Bridge Engineering.

Research Experience

July 2021 – Nov. 2021 Engineering d

Engineering decision-making and risk analysis University of Illinois Urbana-Champaign(online)

Outline

Direct a team of 2 fellow students to analyze and predict the occurrence of hotel fire in Foshan by establishing a Bayesian network model.

Key Responsibilities

- Employ analyses, inclusive of data collection of six factors causing fire, and classifying them into three categories, including men-made factors, natural factors and objective factors, to establish a three-layer Bayesian network model.
- Produce comprehensive reports on analysis of hotel fire and reduction in fire losses.

Additional Information

IT Skills: MATLAB, ANSYS, Python including Pytorch and TF.
Others: Familiar with SVM, K-MEAN, MCMC, RNN, CNN a

Familiar with SVM, K-MEAN, MCMC, RNN, CNN and other Machine Learning/ Deep Learning algorithms. Good mathematical foundation in linear algebra and probabilities