

Mohamed_GEO712-Repository

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Session__04-Activity

Research Interest

My research interest lies in the transportation area. Transportation engineering has seen a significant advance in the past decade as transportation is not just limited to highway design but it has to take into consideration the surrounding developments and how the traffic will be impacted by it. Solving the global congestion crises is a research opportunity that is addressed by many researchers whether in a direct or indirect ways. In transportation there are two topics that interest me the most which are Public Transportation and Drones. Enhancing public transportation by optimizing the timing and locations of the transportation system or by using electric buses will lower congestion, environmental impact, and can help with the energy crises that the world is having. As an emerging technology drones have a lot of uses that can solve a lot of problems. Transportation wise drones can be used in parcel delivery, which can reduce carbon emissions significantly and can reduce the time needed for the delivery. Using Drones in parcel delivery can also create problems, mainly related to public perception as many people will consider it as a privacy breach to have drones hovering over houses.

Favorites

Favorite Music

1. Lessa Bahinlha
2. Runaway aurora
3. Aaron smith dancin
4. cairokee ghammad einak
5. mahmoud el esseily dom dom

Favorite Equation

Bernoulli's Equation

$$P_1 + \frac{1}{2}\rho v_1^2 + \rho gh_1 = P_2 + \frac{1}{2}\rho v_2^2 + \rho gh_2$$

Favorite Artists

Name	Achievements
Denzel Washington	2 Oscars & 3 Golden Globe Awards
Tom Hanks	2 Oscars & 5 Golden Globe Awards
Robert De Niro	2 Oscars & 2 Golden Globe Awards
Robert Downey Jr	3 Golden Globe Awards
Leonardo dicaprio	1 Oscar & 3 Golden Globe Awards

Chunk of Code

```
# Program to check if the input number is odd or even.  
# A number is even if division by 2 give a remainder of 0.  
# If remainder is 1, it is odd.
```

```
num = as.integer(readline(prompt="Enter a number: "))
```

```
## Enter a number:
```

```
if(is.na(num)) {  
  print("Number is : NA")  
}else if(num == 0) {  
  print("Zero")  
}else if((num %% 2) == 0) {  
  print(paste(num,"is Even"))  
} else {  
  print(paste(num,"is Odd"))  
}
```

```
## [1] "Number is : NA"
```

Folder Structure

The main research project folder have the following sub_folders:

1. Raw Data: will have the data as collected.
2. Processed Data: will contain the cleaned and analysed data.
3. Code: will have a detailed description of the process used to analyse the data and the software used in the process for reproducibility purposes.
4. Resources: will have the source of the data and papers used in the literature review.