The study aims to develop a system that can predict a flood hydrograph depending on drainage area, rainfall, channel slope and forested area value of a given area by using linear regression algorithm

It aims to answer the following questions:

1. What is the accuracy of the system in predicting a flood hydrograph of an area with given:
   1. Drainage area
   2. Rainfall
   3. Channel slope
   4. Forested area value
2. Is there significant difference between the real flood hydrograph data of an area and the predicted data of the system?