Using raw GPS data to solve for the instantaneous relative position between a network of GPS receivers. The algorithm is implemented in a simulated environment as proof-of-concept. The purpose of this study is to investigate techniques for increasing the accuracy of GPS without the need for additional hardware or pre-calibration.

This study implements the algorithm in a simulated environment as proof of concept.

The purpose of this study is to have high accuracy position data

Using renewable energy (solar/wind) to purify water (filtration/desalination) for remote communities and disaster hit areas of 100-150 people, incorporated with solar tracking system. The purpose of this study is to explore different water purification techniques for preparing a sustainable concept design.